

*Compendium
of*
RESEARCH

SUNWAY
UNIVERSITY



2019

Compendium
of
RESEARCH

2019

Copyright © 2020 by Sunway University Sdn Bhd

No. 5 Jalan Universiti
Bandar Sunway
47500 Selangor Darul Ehsan
Malaysia

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, now known or hereafter invented, without permission in writing from the publisher.

All information is correct at the time of publication.

publishing services by

SUNWAY
UNIVERSITY PRESS 

Compendium of Research is a comprehensive catalogue of Sunway University's research publications, serving to be an informational booklet for students, researchers, academics and members of the wider public. The compendium accentuates the breadth and depth of Sunway's research and is in line with Sunway's commitment to the pursuit of academic and research excellence as well as dissemination of knowledge.

This issue features Sunway's research publications for 2019, arranged according to Academic School and Centre. Each publication is accompanied by a form of identifier (i.e. DOI, ISBN, ISSN) or a weblink for accessibility purposes. All publications are also available at Sunway's Institutional Repository. Current/former Sunway researchers are indicated in bold.

TABLE OF CONTENTS

School of Arts	1
Department of Art and Design	1
Department of Communication	4
Department of Film and Performing Arts	6
Department of Integrated Arts	11
Centre for Research-Creation in Digital Media	12
School of Healthcare and Medical Sciences	14
Department of Medical Sciences	14
Centre for Biomedical Physics	22
School of Hospitality	32
School of Mathematical Sciences	35
Department of Actuarial Science and Risk	35
Department of Applied Statistics	35
Department of Pure and Applied Mathematics	37
School of Science and Technology	39
Department of Biological Sciences	39
Department of Computing and Information Systems	51
Department of Psychology	65
Research Centre for Carbon Dioxide Capture and Utilisation	69
Research Centre for Crystalline Materials	72
Research Centre for Nano-Materials and Energy Technology	93
Centre for Virus and Vaccine Research	103
Graphene and Advanced 2D Materials Research Group	106

Sunway University Business School 115

Department of Accounting	115
Department of Business Analytics	116
Department of Economics and Finance	119
Department of Management	124
Department of Marketing	130
Centre for Commercial Law and Justice	135

School of Interdisciplinary Studies 136

Center for American Education	136
Centre for English Language Studies	138
Centre for Higher Education Research	140
Jeffrey Cheah Institute on Southeast Asia	145
Jeffrey Sachs Center on Sustainable Development	159

SCHOOL OF ARTS

Department of Art and Design

Chen, T. B.; & **Siek, Perline Hwee Ling**. (2019). Modernized feng shui's decoration art. In *Proceedings of the Asia International Conference of Art and Design (AICAD), Invention & Innovation in Design 2019, Jakarta, Indonesia* (pp. 763–770). Asia International Community of Art and Design. ISBN: 9789579868884

Foong, Wincen Hock Kuen; & Siek, Perline Hwee Ling. (2019). Animism belief that worships the tree in Malaysia. In *The Asian Conference on Cultural Studies 2019: Official Conference Proceedings* (pp. 205–216). The International Academic Forum. <https://papers.iafor.org/submission52095/>

Haidar, Laila. (2019). Adaptive reuse policy evaluation at the Old City of Sana'a Yemen. *Environment-Behaviour Proceedings Journal*, 4(11), 119–127. doi: 10.21834/e-bpj.v4i11.1746

Liew, Yek Ming; & Siek, Perline Hwee Ling. (2019). From a soccer ball inspiration to 3-D structure. In N. A. Hamid, N. Aripin, S. Rashid, A. Asvarutpokin, & A. M. Camalingan (Eds.), *Proceedings of the 3rd International Conference on Media Studies 2019 (ICMS 2019)* (pp. 34–39). Pusat Pengajian Teknologi Multimedia dan Komunikasi, Universiti Utara Malaysia. ISBN: 9789671643532. http://www.smmtc.uum.edu.my/images/2019/12/03/icms2019_latest.pdf

Liew, Yek Ming; & Siek, Perline Hwee Ling. (2019). Using eco-packaging in fast food restaurant is necessary. In *Proceedings of the 24th Chinese Institute of Design Annual Conference 2019* (pp. 992–998). Chinese Institute of Design. ISBN: 9789579868884

Siek, Perline Hwee Ling. (2019). *A mother* [Watercolour, 530 x 380mm]. Mid-Autumn Festival 2019, Seremban Prima Plaza, Seremban, Malaysia. [Creative work—Art exhibition]

Siek, Perline Hwee Ling. (2019). *Bowl-Shaped Eco-Meal Box* [Research poster, 420 x 594mm]. AICAD 2020 IID, Universitas Multimedia Nusantara, Jakarta, Indonesia. [Creative work—Art exhibition]

Siek, Perline Hwee Ling. (2019). *Elephant Mountain* [Watercolour and ink, 297 x 210mm]. Alisan Taiwan- Long Zai Wei Trail Completion Announcement Ceramic Art 2019, Rui Feng Tai He Agriculture Leisure Farm, Alisan Taiwan. [Creative work—Art exhibition]

Siek, Perline Hwee Ling. (2019). *Lotus in Blue* [Watercolour, 530 x 380mm]. Annual Art Exhibition: Blossoms 3 2019, LI CHI MAO Art Museum, Cheras, Kuala Lumpur, Malaysia. [Creative work—Art exhibition]

Siek, Perline Hwee Ling. (2019). *Lotus in Rain. 2019 Malaysian Women’s Day Celebration: “Angel’s Hand” Female Artists Art Exhibition*, 100. [Creative work—Art catalogue]

Siek, Perline Hwee Ling. (2019). *Lotus in Rain* [Watercolour, 530 x 380mm]. 2019 Malaysian Women’s Day Celebration: “Angel’s Hand” Female Artists Art Exhibition, Kuala Lumpur & Selangor Chinese Assembly Hall Malaysia. [Creative work—Art exhibition]

Siek, Perline Hwee Ling. (2019). *Memancing (Fishing)*. *Pameran Seni Visual Wajah-Wajah Negeri*, 34–35. ISBN: 9789671726310 [Creative work—Art catalogue]

Siek, Perline Hwee Ling. (2019). *Memancing (Fishing)* [Watercolour, 530 x 380mm]. Visual Art Exhibition 2019, Sembilan State Museum, Negeri Sembilan, Malaysia. [Creative work—Art exhibition]

Siek, Perline Hwee Ling. (2019). *Modernized Feng Shui Decoration Art* [Research poster, 420 x 594mm]. AICAD 2020 IID, Universitas Multimedia Nusantara, Jakarta, Indonesia. [Creative work—Art exhibition]

Siek, Perline Hwee Ling. (2019). *Zen* [Watercolour, 530 x 380mm]. Annual Art Exhibition 2019, Tuanku Ja'afar Royal Gallery, Sembilan, Malaysia. [Creative work—Art exhibition]

Wong, Fiona E Chiong; & Yousof, G. S. (2019). A visual analysis of the Hanuman Kera Putih Puppet in Wayang Kulit Kelantan. *Malaysian Journal of Performing and Visual Arts*, 5, 29–43. <https://ejournal.um.edu.my/index.php/MJPVA/article/view/20536>

Wong, Fiona E Chiong. (2019). Seri Rama and Maharaja Wana in Wayang Kulit Kelantan: Visual analysis of their puppets. In M. P. Asl, K. Rajandran, & Y. Azam (Eds.), *e-Proceedings of the 5th International Conference on Linguistics, Literature and Culture (ICLLIC 2019)* (pp. 9–14). School of Humanities, Universiti Sains Malaysia. ISBN: 9789674614362. <http://humanities.usm.my/images/proceeding/E-proceedings-icllic-2019-Full.pdf>

Department of Communication

Abdullah, N. H.; Hamzah, M. R.; **Ayub, Suffian Hadi**; Syed Azmy, S. N. M.; Wahab, Z.; Salim, H.; Wan Omar, W. A. H. (2019). An experimental analysis on the corporate identity of institutes of higher learning in the Malaysian east coast region vis-à-vis market conditions in empowering self-sustainability. *International Journal of Innovative Technology and Exploring Engineering*, 8(8S3), 189–193. <https://www.ijitee.org/wp-content/uploads/papers/v8i8s3/HI0520688S319.pdf>

Ayub, Suffian Hadi; Hassim, N.; Yahya, A. H.; Hamzah, M.; & Abu Bakar, M. Z. (2019). Exploring the characteristics of healthy lifestyle campaign on social media: A case study on FIT Malaysia. *Jurnal Komunikasi: Malaysian Journal of Communication*, 35(4), 322–336. doi: 10.17576/JKMJC-2019-3504-20

Chuan, T. P.; **Lee, Catherine Cheng Ean**; & Lim, S. S. (2019). Differences in visual-textual platforms, technical-strategic communication & professionalism vs encroachment between Malaysian & American PR practitioners' social media practices. In L. F. Yang (Ed.), *The 6th International SEARCH Conference 2019 Proceedings* (pp. 116–127). ISBN: 9789670173658. <http://search.taylors.edu.my/conference/documents/SEARCH-Confe-Proceeding-2019.pdf>

Goh, J. N.; Lewis, G. L.; & **Leong, Pauline Pooi Yin**. (2019). Sexy media dissidents: State regulation, dissidence, pornography and gay men in Malaysia. *Sexuality & Culture*, 23, 192–208. doi: 10.1007/s12119-018-9550-2

Lee, Catherine Cheng Ean. (2019). Facebook use in Malaysian higher education classroom. In A. Tatnall (Ed.), *Encyclopedia of Education and Information Technologies*. Springer. doi: 10.1007/978-3-319-60013-0_141-1

Lee, Catherine Cheng Ean; Leow, Serena Wai Yee; & Kong, X. J. (2019). The use of mobile technologies for learning in higher education: Students' readiness. In. L. F. Yang (Ed.), *The 6th International SEARCH Conference 2019 Proceedings* (pp. 152–173). ISBN: 9789670173658. <http://search.taylors.edu.my/conference/documents/SEARCH-Confe-Proceeding-2019.pdf>

Lee, Catherine Cheng Ean; & Siew, E. T. F. (2019). The adoption of Facebook mobile application for managing learning. In *27th International Conference on Computers in Education: Conference Proceedings* (Vol. 1, pp. 484–486). Asia-Pacific Society for Computers in Education. ISBN: 9789869721431

Leong, Pauline Pooi Yin. (2019, June). Combating fake news: A need for media literacy. *The Edge Malaysia*. <https://digital.theedgemaalaysia.com/theedgemediagroup/newsstand/title/tem>

Leong, Pauline Pooi Yin. (2019, September). The impact of new media on free speech in Malaysia. *The Edge Malaysia*. <https://digital.theedgemaalaysia.com/theedgemediagroup/newsstand/title/tem>

Leong, Pauline Pooi Yin. (2019). *Malaysian Politics in the New Media Age: Implications on the Political Communication Process*. Springer. doi: 10.1007/978-981-13-8783-8

Leow, Serena Wai Yee; Leow, K.; & **Wong, Evelyn Mei Ling.** (2019). Collectivistic coping styles and mental well-being of college students in Malaysia. *Psychology and Education Journal*, 56(3–4), 24–32. <http://www.psychologyandeducation.net/pae/category/volume-56-no-3-4-fall-winter-2019/>

Manickam, Yesuselvi; & Selvam, N. D. (2019). A study on the impact of collaborative learning on academic performance using Facebook in higher education. In *Proceedings of Langkawi International Multidisciplinary Academic Conference (LIMAC 2019)* (pp. 30–38). Asian Scholars Network. ISBN: 9789671685945

Pillai, S.; **Leong, Pauline Pooi Yin;** Perry, M. S.; & Wong, A. W. W. (2019). Dialogical intersections of Tamil and Chinese ethnic identity in the Catholic church of Peninsular Malaysia. *Asiatic: IIUM Journal of English Language and Literature*, 13(2), 167–181. <https://journals.iium.edu.my/asiatic/index.php/ajell/article/view/1675>

Sangaran Kutty, Vijaya Sooria; Goh, S. F.; & Lee, E. L. (2019). Hats off to de Bono: Innovatively enhancing presentation skills in the ESL Classroom. In S. Che Lah & R. A. R. Ramakrishna (Eds.), *Research Mosaics of Language Studies in Asia Differences and Diversity*. Penerbit Universiti Sains Malaysia. ISBN: 9789674613693

Department of Film and Performing Arts

Bowyer, Don. (2019). Aaron Hodgson, Inner Voice (Chamber Music for Trumpet). *College Music Symposium*, 59(2), 1–2. doi: 10.18177/sym.2019.59.rev.11451

Bowyer, Don. (2019). *50+50 Trombone Triathlon*. Trombone Fun with Audience Participation, 11 November 2019. Industrial Talent Cultivation Centre, Taiwan. <http://donbowyer.com/trombone-recitals-in-taiwan-11-12-november-2019> [Creative work—Live performance]

Bowyer, Don. (2019). *Multiple Vision*. Trombone Fun with Audience Participation, 11 November 2019. Industrial Talent Cultivation Centre, Taiwan. <http://donbowyer.com/trombone-recitals-in-taiwan-11-12-november-2019> [Creative work—Live performance]

Bowyer, Don. (2019). *Silly Rhymes*. Trombone Fun with Audience Participation, 11 November 2019. Industrial Talent Cultivation Centre, Taiwan. <http://donbowyer.com/trombone-recitals-in-taiwan-11-12-november-2019> [Creative work—Live performance]

Bowyer, Don. (2019). *Time Zones*. Trombone Fun with Audience Participation, 11 November 2019. Industrial Talent Cultivation Centre, Taiwan. <http://donbowyer.com/trombone-recitals-in-taiwan-11-12-november-2019> [Creative work—Live performance]

Chaouche, Sabine. (2019). «Traités comme des pigeons». Business practices and the student market in nineteenth-century Oxford [«Traités comme des pigeons». Pratiques commerciales et marché étudiantin à Oxford à l'époque victorienne]. *Revue d'histoire du XIXe siècle*, 58(1), 209–227. <https://www.cairn-int.info/journal-revue-d-histoire-du-dix-neuvieme-siecle-2019-1-page-209.htm>

Chaouche, Sabine (Ed.) (2019). *European Drama and Performance Studies – 2, no. 13. The Stage and Its Creative Processes, Volume 1*. doi: 10.15122/isbn.978-2-406-09706-8

Chaouche, Sabine. (2019). Mechanisms of authorial coalescence and synergy under the Ancien Régime [Mécanismes de coalescence et de synergie auctoriales sous l'Ancien Régime]. *European Drama and Performance Studies – 2, no. 13. The Stage and Its Creative Processes, Volume 1*, 91–113. doi: 10.15122/isbn.978-2-406-09706-8.p.0091

Chaouche, Sabine. (2019). Sailing on sight: An introduction to the history and philosophy of creative processes. *European Drama and Performance Studies – 2, no. 13. The Stage and Its Creative Processes, Volume 1*, 11–23. doi: 10.15122/isbn.978-2-406-09706-8.p.0011

Chaouche, Sabine. (2019). The phenomenology of acting: Cognitive and creative spaces in 18th-century theories. *European Drama and Performance Studies – 2, no. 13. The Stage and Its Creative Processes, Volume 1*, 69–90. doi: 10.15122/isbn.978-2-406-09706-8.p.0069

Filmer, Andrew. (2019). A critical guide to editorial issues in Mozart's *Sinfonia Concertante*. *European Drama and Performance Studies, 12*, 301–317. doi: 10.15122/isbn.978-2-406-09166-0.p.0301

Hess, George. (2019, January). Steinberg does jazz. *School Band and Orchestra, 22(1)*, 8–9. <http://digitaleditiononline.com/publication/?m=27488&i=555914&p=10>

Hess, George. (2019, March). 2019 best tools for schools award recipients. *School Band and Orchestra, 22(3)*, 10–12. <http://digitaleditiononline.com/publication/?m=27488&i=571129&p=12>

Hess, George. (2019, April). Eventide H9 Max: Big effects in a small package. *School Band and Orchestra, 22(4)*, 39. <http://digitaleditiononline.com/publication/?m=27488&i=579302&p=40>

Hess, George. (2019, April). Let's talk about flipping the arts. *Flipped Learning Review*. <https://flr.flglobal.org/flipping-the-arts-lets-talk/>

Hess, George. (2019, August). Musicmaking and podcasting for the classroom. *School Band and Orchestra*, 22(8), 10–11. <http://digitaleditiononline.com/publication/?m=27488&i=606511&p=14>

Hess, George. (2019, November). Steinberg's Dorico 3. *School Band and Orchestra*, 22(11), 20–21. <http://digitaleditiononline.com/publication/?m=27488&i=631201&p=22>

Hess, George. (2019). *The Light Ahead* by The George Hess Ensemble. Musitex Productions. https://open.spotify.com/album/3y3fzjOZOWH6dmW0gtri6h?si=N7_aSyCXsdyOujNrnF23eQ [Creative work—Music album]

Md Deni, Ann Rosnida; & Arifin, Azrain. (2019). Using padlet for project-based learning in documentary filmmaking. *ICEEL 2019: Proceedings of the 2019 3rd International Conference on Education and E-Learning* (pp. 30–35). doi: 10.1145/3371647.3371648

O'Keeffe, L.; & **Sansom, Matthew James.** (2019). *Reflections on a Journey Through Asian Flatpack Cities (Parts 1 & 2)*. Radiophrenia 2019. <https://matthewsansom.bandcamp.com/album/reflections-on-a-journey-through-asian-flatpack-cities> [Creative work—Audio composition]

Petkovic, Dusan. (2019, December). Movies, MMA, and the future of the film industry. *The Expat*, 267, 61. <https://en.calameo.com/read/005063995ff473f20fa3b>

Sansom, Matthew James. (2019). *Park Bench Sojourn*. Aural Diversity Conference. Attenborough Arts Centre, University of Leicester, United Kingdom. [Creative work—Art exhibition]

Sansom, Matthew James; & Santano, Delas. (2019). *The Master Woodcarver of Kelantan*. Presented at Regionality and Digital Humanities: South-South Connections, Nanyang Technological University, Singapore. <https://vimeo.com/467261193/ca771cc94e> [Creative work—Video and quadrophonic soundscape composition]

Santaella, Mayco A. (2019). “Doing *Rano*” among the Kaili of Central Sulawesi: A choreomusicological analysis of the body as cultural locus of the sound-movement continuum. *Asian Music*, 50(2), 33–57. doi: 10.1353/amu.2019.0014

Santaella, Mayco A. (2019). Popularizing the indigenous as an alternative modernity: The development of dero in Central Sulawesi, Indonesia. In P. Matusky & W. Quintero (Eds.), *Proceedings of the 5th Symposium: The ICTM Study Group on Performing Arts of Southeast Asia* (pp. 235–237). ICTM Study Group on Performing Arts of Southeast Asia. ISBN: 9789839638363. http://www.ictmusic.org/sites/default/files/documents/study%20groups/publications/PASEA%20Proceedings05_upload.pdf

Wong, Kelvin (Director). (2019). *BROHEMIA!* Kuala Lumpur Performing Arts Centre, Malaysia, 14–24 November 2019. [Creative work—Theatre performance]

Wong, Kelvin (Director). (2019). *INDICINELIVE! 6*. Kuala Lumpur Performing Arts Centre, Malaysia, 18 July–4 August 2019. [Creative work—Theatre performance]

Yusof, Azmyl. (2019). Book review—Vamping the Stage: Female Voices of Asian Modernities (Music and Performing Arts of Asia and the Pacific). *Pacific Affairs*, 92(1). <https://pacificaffairs.ubc.ca/book-reviews/vamping-the-stage-female-voices-of-asian-modernities-music-and-performing-arts-of-asia-and-the-pacific-edited-by-andrew-n-weintraub-and-bart-barendregt/>

Department of Integrated Arts

Feinstein, Kenneth. (2019). Being-with media: Encountering the moving image in physical space. In *Proceedings of Electronic Visualisation and Arts (EVA) London 2019 (EVA 2019)* (pp. 226–230). doi: 10.14236/ewic/EVA2019.42

Feinstein, Kenneth. (2019). *Paralogical Machines: When Images Meet Us in Space and Time*. Wei-Ling Contemporary, Kuala Lumpur, Malaysia. <http://weiling-gallery.com/gallery/portfolio-item/paralogical-machines-when-images-meet-us-in-space-and-time-group-show-10-january-17-february-2019-works/> [Creative work—Curation]

Feinstein, Kenneth. (2019). *Paralogical Machines: When Images Meet Us in Space and Time*. Wei-Ling Contemporary, Kuala Lumpur, Malaysia. <http://weiling-gallery.com/gallery/portfolio-item/paralogical-machines-when-images-meet-us-in-space-and-time-group-show-10-january-17-february-2019-works/> [Creative work—Media exhibition]

Feinstein, Kenneth. (2019). *Post Box Cinema*. Wei-Ling Contemporary, Kuala Lumpur, Malaysia. <http://weiling-gallery.com/gallery/portfolio-item/paralogical-machines-when-images-meet-us-in-space-and-time-group-show-10-january-17-february-2019-works/> [Creative work—Media exhibition]

Santano, Delas; Esmaeili, Human; Feinstein, Kenneth; & Thwaites, Harold. (2019). *Mah Meri Masks Project*. Exhibited at World Indigenous Day Celebration, Center for Malaysian Indigenous Studies, University of Malaya, Malaysia. <https://news.sunway.edu.my/articles/university/world-indigenous-day-celebration-center-malaysian-indigenous-studies-university> [Creative work—Art exhibition]

Van Kets, M., & **Feinstein, Kenneth**. (2019). The influence of the cinematographer on the cinematographic discourse of fiction film: Gregg Toland. *Cinematography in Progress*. <https://cinematographyinprogress.com/index.php/cito/article/view/29>

Centre for Research-Creation in Digital Media

Esmaeili, Human. (2019). *Fully Immersive Recycling VR Game*. United Nations Concert/Event “Rock the Goals”, Sunway University. <https://news.sunway.edu.my/articles/university/malaysias-first-full-immersive-recycling-vr-game> [Creative work—Game development]

Feinstein, Kenneth. (2019). *Paralogical Machines: When Images Meet Us in Space and Time*. Wei-Ling Contemporary, Kuala Lumpur, Malaysia. <http://weiling-gallery.com/gallery/portfolio-item/paralogical-machines-when-images-meet-us-in-space-and-time-group-show-10-january-17-february-2019-works/> [Creative work—Curation]

Feinstein, Kenneth. (2019). *Paralogical Machines: When Images Meet Us in Space and Time*. Wei-Ling Contemporary, Kuala Lumpur, Malaysia. <http://weiling-gallery.com/gallery/portfolio-item/paralogical-machines-when-images-meet-us-in-space-and-time-group-show-10-january-17-february-2019-works/> [Creative work—Media exhibition]

Feinstein, Kenneth. (2019). *Post Box Cinema*. Wei-Ling Contemporary, Kuala Lumpur, Malaysia. <http://weiling-gallery.com/gallery/portfolio-item/paralogical-machines-when-images-meet-us-in-space-and-time-group-show-10-january-17-february-2019-works/> [Creative work—Media exhibition]

Sansom, Matthew James. (2019). *Park Bench Sojourn*. Aural Diversity Conference. Attenborough Arts Centre, University of Leicester, United Kingdom. [Creative work—Art exhibition]

Sansom, Matthew James; & Santano, Delas. (2019). *The Master Woodcarver of Kelantan*. Presented at Regionality and Digital Humanities: South-South Connections, Nanyang Technological University, Singapore. <https://vimeo.com/467261193/ca771cc94e> [Creative work—Video and quadrophonic soundscape composition]

Santano, Delas; Esmaeili, Human; Feinstein, Kenneth; & Thwaites, Harold. (2019). *Mah Meri Masks Project*. Exhibited at World Indigenous Day Celebration, Center for Malaysian Indigenous Studies, University of Malaya, Malaysia. <https://news.sunway.edu.my/articles/university/world-indigenous-day-celebration-center-malaysian-indigenous-studies-university> [Creative work—Art exhibition]

Thwaites, Harold. (2019). *The Hainan Boatbuilder of Pangkor: A Malaysian Digital Heritage Case Study*. Harvard University Asia Centre. [Creative work—Art presentation]

Thwaites, Harold; Santano, Delas; Esmaeili, Human; & See, Z. S. (2019). A Malaysian cultural heritage digital compendium. *Digital Applications in Archaeology and Cultural Heritage*, 15, e00116. doi: 10.1016/j.daach.2019.e00116

Van Kets, M., & **Feinstein, Kenneth.** (2019). The influence of the cinematographer on the cinematographic discourse of fiction film: Gregg Toland. *Cinematography in Progress*. <https://cinematographyinprogress.com/index.php/cito/article/view/29>

SCHOOL OF HEALTHCARE AND MEDICAL SCIENCES

Department of Medical Sciences

Beaney, T.; Burrell, L. M.; Castillo, R. R.; Charchar, F. J.; Cro, S.; Damasceno, A.; Kruger, R.; Nilsson, P. M.; Prabhakaran, D.; Ramirez, A. J.; Schlaich, M. P.; Schutte, A. E.; Tomaszewski, M.; Touyz, R.; Wang, J. G.; Weber, M. A.; Poulter, N. R.; & the MMM Investigators (which includes **Chia, Yook Chin**). (2019). May Measurement Month 2018: A pragmatic global screening campaign to raise awareness of blood pressure by the International Society of Hypertension. *European Heart Journal*, 40(25), 2006–2017. doi: 10.1093/eurheartj/ehz300

Chan, E. K. J.; Gouwanda, D.; & **Tee, Kok Kheng**. (2019). Wearable hand exoskeleton for activities of daily living. *2018 IEEE-EMBS Conference on Biomedical Engineering and Sciences (IECBES)*. doi: 10.1109/IECBES.2018.8626719

Chan, J. C. N.; Nguyen, K. T.; Tan, A.; **Chia, Yook Chin**; Hwu, C. M.; Hong, E. G.; Thewjitcharoen, Y.; Du, J.; Yoo, S. J.; Mirasol, R. C.; Lau, E. S.; Lau, V.; Fu, A. W. C.; Mohamed, M.; Yoon, K. H.; Tsang, C. C.; & Luk, A. (2019). 173-LB: Using a diabetes kidney disease (DKD) registry to treat to multiple targets (TMT)—A JADE Technology-based RCT. *Diabetes*, 68(Supplement 1). doi: 10.2337/db19-173-LB

Chia, Yook Chin; Ching, Siew Mooi; Chew, B. N.; Devaraj, N. K.; Suhaila, M. Y. S.; Tay, C. L.; Kang, P. S.; Lee, K. M. V.; Kong, S. Z.; Teoh, S. W.; Nurjasmine, A. J.; Poulter, N. R.; Beaney, T.; & Xia, X. (2019). May Measurement Month 2017 blood pressure screening: Findings from Malaysia-South-East Asia and Australasia. *European Heart Journal Supplements*, 21(Supplement_D), D77–D79. doi: 10.1093/eurheartj/suz181

Ching, Siew Mooi; Chia, Yook Chin; Chew, B. N.; Soo, M. J.; Lim, H. M.; Wan Sulaiman, W. A.; Hoo, F. K.; Saw, M. L.; Ishak, A.; Palanivelu, T.; Caruppaiya, N.; & Devaraj, N. K. (2019). Knowledge on the action to be taken and recognition of symptoms of stroke in a community: Findings from the May Measurement Month 2017 blood pressure screening Programme in Malaysia. *BMC Public Health*, *19*(1), 1602. doi: 10.1186/s12889-019-7922-7

Ching, Siew Mooi; Chia, Yook Chin; Lentjes, M. A. H.; Luben, R.; Wareham, N.; & Khaw, K. T. (2019). FEVI and total cardiovascular mortality and morbidity over an 18 years follow-up population-based prospective EPIC-NORFOLK study. *BMC Public Health*, *19*, 501. doi: 10.1186/s12889-019-6818-x

Chook, Jack Bee; Ngeow, Y. F.; **Tee, Kok Keng;** Lee, J. W. T.; & Mohamed, R. (2019). Increased coffee intake reduces circulating HBV DNA and HBsAg levels in HBeAg-negative infection: A cohort study. *Viruses*, *11*(9), 808. doi: 10.3390/v11090808

Ho, M. C.; Cassandra, L.; & **Ooi, Pei Boon.** (2019). Perceived parenting styles and self-esteem among university students in a collectivist culture, Malaysia. *City University eJournal of Academic Research (CUEJAR)*, *1*(2), 98–110. https://www.city.edu.my/CUEJAR/pdf/issue2/CUEJAR_2019_1_2_98to110.pdf

Ismail, N. A.; Shameli, K.; Wong, M. M. T.; **Teow, Sin Yeang; Chew, Jactty;** & Mohamad Sukri, S. N. A. (2019). Antibacterial and cytotoxic effect of honey mediated copper nanoparticles synthesized using ultrasonic assistance. *Materials Science and Engineering: C*, *104*, 109899. doi: 10.1016/j.msec.2019.109899

Izadiyan, Z.; Shameli, K.; Miyake, M.; **Teow, Sin Yeang; Peh, Suat Cheng**; Mohamad, S. E.; & Mohd Taib, S. H. (2019). Green fabrication of biologically active magnetic core-shell Fe₃O₄/Au nanoparticles and their potential anticancer effect. *Materials Science and Engineering C*, 96, 51–57. doi: 10.1016/j.msec.2018.11.008

Kario, K.; Park, S.; **Chia, Yook Chin**; Sukonthasarn, A.; Turana, Y.; Shin, J.; Chen, C. H.; Buranakitjaroen, P.; Divinagracia, R.; Nales, J.; Hoshide, S.; Siddique, S.; Sison, J.; Soenarta, A. A.; Sogunuru, G. P.; Tay, J. C.; Teo, B. W.; Zhang, Y.; Van Minh, H.; Tomitani, N.; Kabutoya, T.; Verma, N.; Wang, T. D.; & Wang, J. G. (2019). 2020 consensus summary on the management of hypertension in Asia from the HOPE Asia Network. *The Journal of Clinical Hypertension*, 22(3), 351–362. doi: 10.1111/jch.13751

Kario, K.; Shin, J.; Chen, C. H.; Buranakitjaroen, P.; **Chia, Yook Chin**; Divinagracia, R.; Nales, J.; Hoshide, S.; Siddique, S.; Sison, J.; Soenarta, A. A.; Sogunuru, G. P.; Tay, J. C.; Teo, B. W.; Turana, Y.; Zhang, Y.; Park, S.; Van Minh, H.; & Wang, J. G. (2019). Expert panel consensus recommendations for ambulatory blood pressure monitoring in Asia: The HOPE Asia Network. *The Journal of Clinical Hypertension*, 21(9), 1250–1283. doi: 10.1111/jch.13652

Kioh, S. H.; Mat, S.; Kamaruzzaman, S. B.; Ibrahim, F.; Mokhtar, M. S.; Hairi, N. N.; Cumming, R. G.; Phyo, K. M.; **Tan, Maw Pin**; & on behalf of the MELoR investigators. (2019). Body shape, fear of falling, physical performance, and falls among individuals aged 55 years and above. *European Geriatric Medicine*, 10, 801–808. doi: 10.1007/s41999-019-00220-1

Lee, K. W.; **Ching, Siew Mooi**; Hoo, F. K.; Ramachandran, V.; Chong, S. C.; Tusimin, M.; & Nordin, N. M. (2019). Prevalence and factors associated with depressive, anxiety and stress symptoms among women with gestational diabetes mellitus in tertiary care centres in Malaysia: A cross-sectional study. *BMC Pregnancy and Childbirth*, 19, 367. doi: 10.1186/s12884-019-2519-9

Lee, K. X.; Shameli, K.; Mohamad, S. E.; Yew, Y. P.; Mohamad Isa, E. D.; Yap, H. Y.; **Lim, Wei Ling**; & **Teow, Sin Yeang**. (2019). Bio-mediated synthesis and characterisation of silver nanocarrier, and its potent anticancer action. *Nanomaterials*, 9(10), 1423. doi: 10.3390/nano9101423

Lim, H. M.; **Chia, Yook Chin**; **Ching, Siew Mooi**; & Chinna, K. (2019). Number of blood pressure measurements needed to estimate long-term visit-to-visit systolic blood pressure variability for predicting cardiovascular risk: A 10-year retrospective cohort study in a primary care clinic in Malaysia. *BMJ Open*, 9, e025322. doi: 10.1136/bmjopen-2018-025322

Mat, S.; Jaafar, M. H.; Ng, C. T.; Sockalingam, S.; Raja, J.; Kamaruzzaman, S. B.; Chin, A. V.; Abbas, A. A.; Chan, C. K.; Hairi, N. N.; Othman, S.; Cumming, R. G.; Tey, N. P.; & **Tan, Maw Pin**. (2019). Ethnic differences in the prevalence, socioeconomic and health related risk factors of knee pain and osteoarthritis symptoms in older Malaysians. *PLoS One*, 14(11), e0225075. doi: 10.1371/journal.pone.0225075

Mat, S.; Razack, A. H.; Lim, J.; Khong, S. Y.; Kamaruzzaman, S. B.; Chin, A. V.; Abbas, A. A.; Hairi, N. N.; Othman, S.; & **Tan, Maw Pin**. (2019). Factors determining the increased risk of falls in individuals with knee pain in the Malaysian Elders Longitudinal Research (MELoR) study. *Frontiers in Medicine*, 6, 277. doi: 10.3389/fmed.2019.00277

Mohamad Sukri, S. N. A.; Shameli, K.; Wong, M. M. T.; **Teow, Sin Yeang; Chew, Jactty**; & Ismail, N. A. (2019). Cytotoxicity and antibacterial activities of plant-mediated synthesized zinc oxide (ZnO) nanoparticles using *Punica granatum* (pomegranate) fruit peels extract. *Journal of Molecular Structure*, 1189, 57–65. doi: 10.1016/j.molstruc.2019.04.026

Neblett, R. S.; **Chia, Yook Chin**; Abdullah, N.; & Ablah, E. (2019). Goals, beliefs, knowledge, and barriers for diabetes selfcare in a multi-ethnic population in Malaysia: A qualitative study. *Medical Journal of Malaysia*, 74(6), 483–491. <http://www.e-mjm.org/2019/v74n6/diabetes-self-care.pdf>

Ng, T. J.; Teo, M. Y. M.; Liew, D. S.; Effiong, P. E.; **Hwang, Jung Shan**; Lim, C. S. Y.; & In, L. L. A. (2019). Cytotoxic and apoptosis-inducing effects of wildtype and mutated *Hydra* actinoporin-like toxin I (HALT-I) on various cancer cell lines. *PeerJ*, 7, e6639. doi: 10.7717/peerj.6639

Ooi, Pei Boon. (2019, April). Using UACI in dealing with your personality preferences. *The Edge Malaysia*. <https://digital.theedgemaalaysia.com/theedgemediagroup/newsstand/title/tem>

Raihan, R.; Akbar, S. M. F.; Al Mahtab, M.; Takahashi, K.; Masumoto, J.; Tabassum, S.; **Tee, Kok Keng**; & Mohamed, R. (2019). Genomic analysis of Hepatitis B virus and its association with disease manifestations in Bangladesh. *PLoS One*, 14(6), e0218744. doi: 10.1371/journal.pone.0218744

Setia, S.; Tay, J. C.; **Chia, Yook Chin**; & Subramaniam, K. (2019). Massive open online courses (MOOCs) for continuing medical education—why and how? *Advances in Medical Education and Practice*, 10, 805–812. doi: 10.2147/AMERS219104

Sogunuru, G. P.; Kario, K.; Shin, J.; Chen, C. H.; Buranakitjaroen, P.; **Chia, Yook Chin**; Divinagracia, R.; Nailes, J.; Park, S.; Siddique, S.; Sison, J.; Soenarta, A. A.; Tay, J. C.; Turana, Y.; Zhang, Y.; Hoshide, S.; Wang, J. G.; & on behalf of the HOPE Asia Network. (2019). Morning surge in blood pressure and blood pressure variability in Asia: Evidence and statement from the HOPE Asia Network. *The Journal of Clinical Hypertension*, 21(2), 324–334. doi: 10.1111/jch.13451

Tan, C. H.; Chow, Z. Y.; **Ching, Siew Mooi**; Devaraj, N. K.; He, F. J.; MacGregor, G. A.; & **Chia, Yook Chin**. (2019). Salt content of instant noodles in Malaysia: A cross-sectional study. *BMJ Open*, 9, e024702. doi: 10.1136/bmjopen-2018-024702

Tan, G. W.; Sivanesan, V. M.; Abdul Rahman, F. I.; Hassan, F.; Hasbullah, H. H.; Ng, C. C.; Khoo, A. S. B.; & **Tan, Lu Ping**. (2019). A novel and non-invasive approach utilising nasal washings for the detection of nasopharyngeal carcinoma. *International Journal of Cancer*, 145(8), 2260–2266. doi: 10.1002/ijc.32173

Tan, H. L.; **Teow, Sin Yeang**; & Pushpamalar, J. (2019). Application of metal nanoparticle-hydrogel composites in tissue regeneration. *Bioengineering*, 6(1), 17. doi: 10.3390/bioengineering6010017

Tee, Kok Kheng; Choo, C. H.; Shanmugam, R.; Ngim, J. H. L.; & Ahmad, T. S. (2019). A novel supraretinacular endoscopic carpal tunnel release: Instrumentation and technique (cadaveric study). *Journal of Hand Surgery Global Online*, 1(4), 222–225. doi: 10.1016/j.jhsg.2019.07.003

Teow, Sin Yeang; Liew, K.; Che Mat, M. F.; Marzuki, M.; Abdul Aziz, N.; Chu, T. L.; Ahmad, M.; & Khoo, A. S. B. (2019). Development of a luciferase/luciferin cell proliferation (XenoLuc) assay for real-time measurements of Gfp-Luc2-modified cells in a co-culture system. *BMC Biotechnology*, 19, 34. doi: 10.1186/s12896-019-0528-4

Tseklevs, E.; **Yong, Min Hooi;** **Lee, Clarissa Ai Ling;** Giga, S.; **Hwang, Jung Shan;** & **Lau, Sian Lun.** (2019). Rethinking how healthcare is conceptualised and delivered through speculative design in the UK and Malaysia: A comparative study. *The Design Journal*, 22 (Sup. 1), 429–444. doi: 10.1080/14606925.2019.1595430

Turana, Y.; Tengkawan, J.; **Chia, Yook Chin;** Hoshide, S.; Shin, J.; Chen, C. H.; Buranakitjaroen, P.; Nales, J.; Park, S.; Siddique, S.; Sison, J.; Soenarta, A. A.; Tay, J. C.; Sogunuru, G. P.; Zhang, Y.; Wang, J. G.; & Kario, K. (2019, August). *A troubling trend in Asia's aging population* [Video], based on *The Journal of Clinical Hypertension*, "Hypertension and dementia: A comprehensive review from the HOPE Asia Network". <https://www.youtube.com/watch?v=qsKrDez03M0>

Turana, Y.; Tengkawan, J.; **Chia, Yook Chin;** Hoshide, S.; Shin, J.; Chen, C. H.; Buranakitjaroen, P.; Nales, J.; Park, S.; Siddique, S.; Sison, J.; Soenarta, A. A.; Tay, J. C.; Sogunuru, G. P.; Zhang, Y.; Wang, J. G.; & Kario, K. (2019). Hypertension and dementia: A comprehensive review from the HOPE Asia Network. *The Journal of Clinical Hypertension*, 21(8), 1091–1098. doi: 10.1111/jch.13558

Veettil, S. K.; Nathisuwan, S.; **Ching, Siew Mooi;** Jinatongthai, P.; Lim, K. G.; Kew, S. T.; & Chaiyakunapruk, N. (2019). Efficacy and safety of celecoxib on the incidence of recurrent colorectal adenomas: A systematic review and meta-analysis. *Cancer Management and Research*, 11, 561–571. doi: 10.2147/CMAR.S180261

Yap, H. Y.; Siow, T. S.; Chow, S. K.; & **Teow, Sin Yeang**. (2019). Epstein-Barr virus- (EBV-) immortalized lymphoblastoid cell lines (LCLs) express high level of CD23 but low CD27 to support their growth. *Advances in Virology*, 2019, 6464521. doi: 10.1155/2019/6464521

Yap, W. Y.; Tan, K. J. S. X.; & **Hwang, Jung Shan**. (2019). Expansion of *Hydra* actinoporin-like toxin (HALT) gene family: Expression divergence and functional convergence evolved through gene duplication. *Toxicon*, 170, 10–20. doi: 10.1016/j.toxicon.2019.09.007

Yew, S. Q.; **Chia, Yook Chin**; & Theodorakis, M. (2019). Assessing 10-year cardiovascular disease risk in Malaysians with type 2 diabetes mellitus: Framingham cardiovascular versus United Kingdom prospective diabetes study equations. *Asia Pacific Journal of Public Health*, 31(7), 622–632. doi: 10.1177/1010539519873487

Yew, Y. P.; Shameli, K.; Mohamad, S. E.; Nagao, Y.; **Teow, Sin Yeang**; Lee, K. X.; & Mohamed Isa, E. D. (2019). Potential anticancer activity of protocatechuic acid loaded in montmorillonite/Fe₃O₄ nanocomposites stabilized by seaweed *Kappaphycus alvarezii*. *International Journal of Pharmaceutics*, 572, 118743. doi: 10.1016/j.ijpharm.2019.118743

Zack, R.; Okunade, O.; Olson, E.; Salt, M.; Amodeo, C.; Anchala, R.; Berwanger, O.; Campbell, N.; **Chia, Yook Chin**; Damasceno, A.; Phuong Do, T. N.; Dzudie, A. T.; Fiuza, M.; Mirza, F.; Nitsch, D.; Ogedegbe, G.; Podpalov, V.; Schiffrin, E. L.; Vaz Carneiro, A.; & Lamptey, P. (2019). Improving hypertension outcome measurement in low- and middle-income countries. *Hypertension*, 73(5), 990–997. doi: 10.1161/HYPERTENSIONAHA.118.11916

Centre for Biomedical Physics

Abedin, M. J.; Karim, M. R.; Hossain, S.; Deb, N.; Kamal, M.; Miah, M. H. A.; & **Khandaker, Mayeen Uddin**. (2019). Spatial distribution of radionuclides in agricultural soil in the vicinity of a coal-fired brick kiln. *Arabian Journal of Geosciences*, 12, 236. doi: 10.1007/s12517-019-4355-7

Ahmad, P.; **Khandaker, Mayeen Uddin**; Muhammad, N.; Khan, G.; Rehman, F.; Khan, A. S.; Ullah, Z.; Khan, A.; Ali, H.; Ahmed, S. M.; Rauf Khan, M. A.; Iqbal, J.; Khan, A. A.; & Irshad, M. I. (2019). Fabrication of hexagonal boron nitride quantum dots via a facile bottom-up technique. *Ceramics International*, 45(17, Part B), 22765–22768. doi: 10.1016/j.ceramint.2019.07.316

Alanazi, A. H.; Jurewicz, I.; Alyahyawi, A.; Alsubaie, A.; Hinder, S.; Bañuls-Ciscar, J.; Alkhorayef, M.; Watts, J. F.; & **Bradley, David Andrew**. (2019). Novel dosimetric study of the sp^2 to sp^3 hybridisation ratio in free-standing carbon nanotubes buckypaper. *Radiation Physics and Chemistry*, 154, 38–45. doi: 10.1016/j.radphyschem.2018.02.006

Alkhorayef, M.; Hamza, Y.; Sulieman, A.; Salih, I.; Babikir, E.; & **Bradley, David Andrew**. (2019). Effective dose and radiation risk estimation in certain paediatric renal imaging procedures. *Radiation Physics and Chemistry*, 154, 64–68. doi: 10.1016/j.radphyschem.2018.06.016

Alkhorayef, M.; Sulieman, A.; Alonazi, B.; Alnaaimi, M.; Alduajj, M.; & **Bradley, David Andrew**. (2019). Estimation of radiation-induced cataract and cancer risks during routine CT head procedures. *Radiation Physics and Chemistry*, 155, 65–68. doi: 10.1016/j.radphyschem.2018.08.019

Almugren, K. S.; Abdul Sani, S. F.; Wandira, R.; Wahib, N.; Rozaila, Z. S.; **Khandaker, Mayeen Uddin**; & **Bradley, David Andrew**. (2019). Thermoluminescence response of X-ray irradiated commercial chalk. *Applied Radiation and Isotopes*, *151*, 102–110. doi: 10.1016/j.apradiso.2019.04.027

Alsubaie, A.; Alsulaiti, L.; Al-Dabbous, A. N.; Chamakh, M.; Jaafar, M.; Daar, E.; Alanazi, A. H.; Altowairqi, Y.; Podolyak, Z.; Ward, N. I.; & **Bradley, David Andrew**. (2019). A comparison of elemental presence in Riyadh and Doha road dust. *Radiation Physics and Chemistry*, *154*, 58–63. doi: 10.1016/j.radphyschem.2018.06.045

Alsubaie, A.; Alsulaiti, L.; Daar, E.; Al-Dabbous, A. N.; Chamakh, M.; Jaafar, M.; & **Bradley, David Andrew**. (2019). Elemental evaluation of urban road dirt via three analytical techniques. *Radiation Physics and Chemistry*, *165*, 108444. doi: 10.1016/j.radphyschem.2019.108444

Alsubaie, A.; Daar, E.; Alsulaiti, L.; Al-Dabbous, A. N.; Chamakh, M.; Jaafar, M.; & **Bradley, David Andrew**. (2019). Elemental evaluation of urban road dirt in tropical, arid and maritime climates. *Radiation Physics and Chemistry*, *160*, 48–55. doi: 10.1016/j.radphyschem.2019.03.026

Alsubaie, A.; Jaafar, M.; Al-Dabbous, A. N.; Alomairy, S.; Altowairqi, Y.; Daar, E.; Alkhorayef, M.; Alsulaiti, L.; Almugren, K. S.; Ward, N. I.; & **Bradley, David Andrew**. (2019). A comparison of elemental presence in UK and Kuwait road dust. *Radiation Physics and Chemistry*, *155*, 341–347. doi: 10.1016/j.radphyschem.2018.08.020

Alyahyawi, A.; Dimitriadis, A.; Jafari, S. M.; Lohstroh, A.; Alanazi, A.; Alsubaie, A.; Clark, C. H.; Nisbet, A.; & **Bradley, David Andrew**. (2019). Thermoluminescence measurements of eye-lens dose in a multi-centre stereotactic radiosurgery audit. *Radiation Physics and Chemistry*, *155*, 75–81. doi: 10.1016/j.radphyschem.2018.08.030

Barua, T.; Saiful Islam Bhuiyan, A. K. M.; Hossain, S.; Deb, N.; Ahmed, M.; Hossain, S.; Rashid, M. A.; & **Khandaker, Mayeen Uddin**. (2019). The presence of radioactive and metal contaminants in wild mushrooms grown in Chattogram hill tracts, *Bangladesh. Journal of Radioanalytical and Nuclear Chemistry*, 322, 173–182. doi: 10.1007/s10967-019-06579-6

Bradley, David Andrew. (2019). The Tenth International Topical Meeting on Industrial Radiation and Radioisotope Measurement Applications (IRRMA X). *Radiation Physics and Chemistry*, 155, 1–3. doi: 10.1016/j.radphyschem.2018.10.009

Bradley, David Andrew; Rozaila, Z. S.; **Khandaker, Mayeen Uddin**; Meevasana, W.; & Abdul Sani, S. F. (2019). Raman spectroscopy and X-ray photo-spectroscopy analysis of graphite media irradiated at low doses. *Applied Radiation and Isotopes*, 147, 105–112. doi: 10.1016/j.apradiso.2019.02.016

Bradley, David Andrew; Zubair, H. T.; Oresegun, A.; Louay, G. T.; Abdul-Rashid, H. A.; Ung, N. M.; & Alzimami, S. (2019). Towards the development of doped silica radioluminescence dosimetry. *Radiation Physics and Chemistry*, 154, 46–52. doi: 10.1016/j.radphyschem.2018.04.019

Chakraborty, A. K.; Uddin, M. S.; Shariff, M. A.; Latif, S. A.; Rashid, M. A.; & **Khandaker, Mayeen Uddin**. (2019). Efficiency calibration of γ -ray detector for extended sources. *Pramana—Journal of Physics*, 92, 67. doi: 10.1007/s12043-019-1735-1

Chew, Ming Tsuey. (2019). Photon to particle radiation for radiotherapy. *IRPS Bulletin*, 33(1), 14–23. <https://www.canberra.edu.au/irps/bulletin/docs/IRPS-Bulletin-33-1-1.pdf>

Chew, Ming Tsuey; Bradley, David Andrew; Suzuki, M.; Matsufuji, N.; Murakami, T.; Jones, B.; & Nisbet, A. (2019). The radiobiological effects of He, C and Ne ions as a function of LET on various glioblastoma cell lines. *Journal of Radiation Research*, 60(2), 178–188. doi: 10.1093/jrr/rry099

Chew, Ming Tsuey; Nisbet, A.; Jones, B.; Suzuki, M.; Matsufuji, N.; Murakami, T.; & **Bradley, David Andrew.** (2019). Ion beams for space radiation radiobiological effect studies. *Radiation Physics and Chemistry*, 165, 108373. doi: 10.1016/j.radphyschem.2019.108373

Chew, Ming Tsuey; Nisbet, A.; Suzuki, N.; Murakami, T.; Jones, B.; & **Bradley, David Andrew.** (2019). Potential lethal damage repair in glioblastoma cells irradiated with ion beams of various types and levels of linear energy transfer. *Journal of Radiation Research*, 60(1), 59–68. doi: 10.1093/jrr/rry081

Fadzil, M. S. A.; Ung, N. M.; Ariffin, A.; **Bradley, David Andrew;** & Noor, N. M. (2019). Evaluation on thermoluminescence kinetic parameters of Ge-doped cylindrical fibre dosimeter by computerised glow curve deconvolution technique. *JPS Conference Proceedings: Proceedings of the Second International Symposium on Radiation Detectors and Their Uses (ISR2018)*, 24, 011036. doi: 10.7566/JPSCP.24.011036

Fernandez, J. E.; Rubio, M.; & **Bradley, David Andrew** (Guest Editors of Proceedings) (2019). International Forum on Advances in Radiation Physics, Buenos Aires, 4–5 May 2017. *Radiation Physics and Chemistry*, 154, 1–2. doi: 10.1016/j.radphyschem.2018.10.003

Grime, G. W.; Abdul Sani, S. F.; Palitsin, V.; Siti Shafiqah, A. S.; Maah, M. J.; Alyahyawi, A.; & **Bradley, David Andrew**. (2019). Simultaneous microbeam IBA and beam-induced luminescence analysis of strained doped silica fibre radiation dosimeters. *Radiation Physics and Chemistry*, 155, 173–177. doi: 10.1016/j.radphyschem.2018.05.023

Hasan, M. M.; Rahman, M.; Faruque, M. R. I.; Islam, M. T.; & **Khandaker, Mayeen Uddin**. (2019). Electrically compact SRR-loaded metamaterial inspired quad band antenna for Bluetooth/WiFi/WLAN/WiMAX system. *Electronics*, 8(7), 790. doi: 10.3390/electronics8070790

Hassan, M. F.; Rahman, W. N. W. A.; Tominaga, T.; Geso, M.; Akasaka, H.; **Bradley, David Andrew**; & Noor, N. M. (2019). Ge-doped silica fibre for proton beam dosimetry. *Radiation Physics and Chemistry*, 165, 108390. doi: 10.1016/j.radphyschem.2019.108390

Husain, M. A. A.; Hashim, S.; **Bradley, David Andrew**; Rabir, M. H.; Zakaria, N.; & Zin, M. R. M. (2019). Investigation on neutron flux effect onto irradiated fuel burn-up stored in the reactor TRIGA PUSPATI. *Atom Indonesia*, 45(1), 59–65. doi: 10.17146/aij.2019.859

Islam, A. A. M. S.; **Khandaker, Mayeen Uddin**; Miah, M. H.; & Hossain, S. (2019). Radioactivity in coral skeletons and marine sediments collected from the St. Martin's Island of Bangladesh. *Journal of Radioanalytical and Nuclear Chemistry*, 322, 157–163. doi: 10.1007/s10967-019-06582-x

Isolan, L.; Sumini, M.; Teodori, F.; **Bradley, David Andrew**; Jafari, S.; Mariotti, F.; & Buontempo, F. (2019). Dosimetric analysis and experimental setup design for in-vivo irradiation with a Plasma Focus device. *Radiation Physics and Chemistry*, 155, 17–21. doi: 10.1016/j.radphyschem.2018.06.025

Jamil, M. Z. A. M.; Mohamed, F.; Md Rosli, N. R. A.; Rahman, I. A.; Idris, M. I.; **Bradley, David Andrew**; Md Nor, M.; & Mohd Mustafa, S. N. (2019). Effect of gamma irradiation on magnetic gadolinium oxide nanoparticles coated with chitosan (GdNPs-Cs) as contrast agent in magnetic resonance imaging. *Radiation Physics and Chemistry*, 165, 108407. doi: 10.1016/j.radphyschem.2019.108407

Karim, M. R.; **Khandaker, Mayeen Uddin**; Asaduzzaman, K.; Razak, H. A.; & Yusoff, S. B. (2019). Radiological risks assessment of building materials ingredients: Palm oil clinker and fuel ash. *Indoor and Built Environment*, 28(4), 479–491. doi: 10.1177/1420326X18776705

Khandaker, Mayeen Uddin; Garba, N. N.; Rohaizad, C. A. H. B. C.; & **Bradley, David Andrew**. (2019). Assessment of natural radioactivity levels in stony sand from Black Stone Beach of Kuantan, the Peninsular Malaysia. *Radioprotection*, 54(3), 211–218. doi: 10.1051/radiopro/2019024

Khandaker, Mayeen Uddin; Heffny, N. A.; Amin, Y. M.; & **Bradley, David Andrew**. (2019). Elevated concentration of radioactive potassium in edible algae cultivated in Malaysian seas and estimation of ingestion dose to humans. *Algal Research*, 38, 101386. doi: 10.1016/j.algal.2018.101386

Khandaker, Mayeen Uddin; Nagatsu, K.; Obata, H.; Minegishi, K.; & Zhang, M. R. (2019). Excitation functions of helion-induced nuclear reactions on natural titanium up to 55 MeV. *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, 445, 69–76. doi: 10.1016/j.nimb.2019.03.011

Khandaker, Mayeen Uddin; Shuaibu, H. K.; Alklabi, F. A. A.; Alzimami, K. S.; & **Bradley, David Andrew**. (2019). Study of primordial ^{226}Ra , ^{228}Ra , and ^{40}K concentrations in dietary palm dates and concomitant radiological risk. *Health Physics*, 116(6), 789–798. doi: 10.1097/HP.0000000000001042

Khandaker, Mayeen Uddin; Uwatse, O. B.; Shamsul Khairi, K. A.; Faruque, M. R. I.; & **Bradley, David Andrew**. (2019). Terrestrial radionuclides in surface (Dam) water and concomitant dose in metropolitan Kuala Lumpur. *Radiation Protection Dosimetry*, 185(3), 343–350. doi: 10.1093/rpd/ncz018

Kolo, M. T.; **Khandaker, Mayeen Uddin**; & Shuaibu, H. K. (2019). Natural radioactivity in soils around mega coal-fired cement factory in Nigeria and its implications on human health and environment. *Arabian Journal of Geosciences*, 12, 481. doi: 10.1007/s12517-019-4607-6

Lam, S. E.; **Bradley, David Andrew**; Mahmud, R.; Pawanchek, M.; Abdul Rashid, H. A.; & Mohd Noor, N. (2019). Dosimetric characteristics of fabricated Ge-doped silica optical fibre for small-field dosimetry. *Results in Physics*, 12, 816–826. doi: 10.1016/j.rinp.2018.12.030

Ley, K.; Jafari, S. M.; Lohstroh, A.; Shenton-Taylor, C.; & **Bradley, David Andrew**. (2019). Thermoluminescent response of beta-irradiated silica beads. *Radiation Physics and Chemistry*, 154, 32–37. doi: 10.1016/j.radphyschem.2018.03.015

Ley, K.; Jafari, S. M.; Lohstroh, A.; & **Bradley, David Andrew**. (2019). Investigations of thermoluminescent silica beads of different manufacturers and colours. *Radiation Physics and Chemistry*, 155, 178–183. doi: 10.1016/j.radphyschem.2018.05.026

Moradi, F.; **Khandaker, Mayeen Uddin**; Alrefae, T.; Ramazanian, H.; & **Bradley, David Andrew**. (2019). Monte Carlo simulations and analysis of transmitted gamma ray spectra through various tissue phantoms. *Applied Radiation and Isotopes*, *146*, 120–126. doi: 10.1016/j.apradiso.2019.01.031

Moradi, F.; Olatunji, M. A.; Abdul Sani, S. F.; Ung, N. M.; Forouzeshfar, F.; **Khandaker, Mayeen Uddin**; & **Bradley, David Andrew**. (2019). Composition and thickness dependence of TLD relative dose sensitivity: A Monte Carlo study. *Radiation Measurements*, *129*, 106191. doi: 10.1016/j.radmeas.2019.106191

Moradi, F.; Ung, N. M.; Mahdiraji, G. A.; **Khandaker, Mayeen Uddin**; See, M. H.; Taib, N. A.; & **Bradley, David Andrew**. (2019). Evaluation of Ge-doped silica fibre TLDs for in vivo dosimetry during intraoperative radiotherapy. *Physics in Medicine & Biology*, *64*(8). doi: 10.1088/1361-6560/ab0d4e

Musa, Y.; Hashim, S.; Ghoshal, S. K.; Ahmad, N. E.; **Bradley, David Andrew**; Karim, M. K. A.; & Sabraudin, A. (2019). Effectiveness of Al₂O₃:C OSL dosimeter towards entrance surface dose measurement in common X-ray diagnostics. *Radiation Physics and Chemistry*, *165*, 108418. doi: 10.1016/j.radphyschem.2019.108418

Nadhiya, A.; **Khandaker, Mayeen Uddin**; Mahmud, S.; & Yarima, M. H. (2019). Radiation dose to Maldivians via the consumption of tuna fish caught from the coastal waters of Indian Ocean. *Radiation Protection Dosimetry*, *184*(3–4), 302–306. doi: 10.1093/rpd/ncz085

Nasser, S. M.; **Khandaker, Mayeen Uddin; Bradley, David Andrew;** & Isinkaye, M. O. (2019). Evaluation of radon concentration in irrigation and drinking waters from the eastern part of Oman and estimation of effective doses to Omanis. *Radiation Protection Dosimetry*, 184(3–4), 422–425. doi: 10.1093/rpd/ncz088

Rais, N. N. M.; **Bradley, David Andrew;** Hashim, A.; Isa, N. M.; Osman, N. D.; Ismail, I.; Hassan, H. A.; & Noor, N. M. (2019). Dosimetric response of fabricated Ge-doped optical fibres in computed tomography RQT beam quality x-ray beams. *Journal of Radiological Protection*, 39(3), N8–N18. doi: 10.1088/1361-6498/ab1c16

Rais, N. N. M.; **Bradley, David Andrew;** Hashim, A.; Osman, N. D.; & Noor, N. M. (2019). Fabricated germanium-doped fibres for computed tomography dosimetry. *Applied Radiation and Isotopes*, 153, 108810. doi: 10.1016/j.apradiso.2019.108810

Sulieman, A.; Abdelrazig, A.; Alkhorayef, M.; Babikir, E.; Al-Mohammed, H. I.; Al-Mugren, K. S.; & **Bradley, David Andrew.** (2019). Patient effective doses and radiation risks in cardiac catheterization procedures. *Radiation Physics and Chemistry*, 157, 54–59. doi: 10.1016/j.radphyschem.2018.12.012

Suliman, I. I.; Salih, L. H.; Ali, D. M.; Alaamer, A. S.; Al-Rajhi, M. A.; Alkhorayef, M.; & **Bradley, David Andrew.** (2019). Occupational exposure in nuclear medicine and interventional cardiology departments in Sudan: Are they following radiation protection standards? *Radiation Physics and Chemistry*, 160, 100–104. doi: 10.1016/j.radphyschem.2019.03.004

Wahib, N.; **Khandaker, Mayeen Uddin**; Mohamad Ramli, N. A.; Abdul Sani, S. F.; & **Bradley, David Andrew**. (2019). Commercial kitchenware glass as a potential thermoluminescent media for retrospective dosimetry. *Applied Radiation and Isotopes*, 148, 218–224. doi: 10.1016/j.apradiso.2019.04.001

Yarima, M. H.; **Khandaker, Mayeen Uddin**; Nadhiya, A.; & Olatunji, M. A. (2019). Assessment of natural radioactivity in Maize and estimation of concomitant dose to Nigerian via ingestion pathway. *Radiation Protection Dosimetry*, 184 (3–4), 359–362. doi: 10.1093/rpd/ncz115

Yasmin, S.; **Khandaker, Mayeen Uddin**; Barua, B. S.; Mustafa, M. N.; Chowdhury, F. U. Z.; Rashid, M. A.; & **Bradley, David Andrew**. (2019). Ionizing radiation shielding effectiveness of decorative building materials (porcelain and ceramic tiles) used in Bangladeshi dwellings. *Indoor and Built Environment*, 28(6), 825–836. doi: 10.1177/1420326X18798883

Zubair, H. T.; Oresegun, A.; Mizanur Rahman, A. K. M.; Ung, N. M.; Mat Sharif, K. A.; Zulkifli, M. I.; Muhd Yassin, S. Z.; Maah, M. J.; Yusoff, Z.; Abdul-Rashid, H. A.; **Bradley, David Andrew**; & Omar, N. Y. M. (2019). Real-time radiation dosimetry using P-doped silica optical fiber. *Measurement*, 146, 119–124. doi: 10.1016/j.measurement.2019.06.010

SCHOOL OF HOSPITALITY

Chaichi, Kamelia; & Salem, S. F. (2019). The retention of fresh graduated employees in Kuala Lumpur hotels [La retención de empleados recién graduados en hoteles de Kuala Lumpur]. *Opción*, 35(Special Issue 19), 2040–2065. <https://produccioncientificaluz.org/index.php/opcion/article/view/24115/24559>

Chong, Ka Leong. (2019). Review of problems in the development of rail tourism in Taiwan, on the example of the Alishan Forest Railway. *GeoJournal of Tourism and Geosites*, 26(3), 943–955. doi: 10.30892/gtg.26321-409

Chong, Ka Leong. (2019). The “noble” impacts of mass tourism on Bali island: The local community perspectives. *Journal of Tourism, Hospitality & Culinary Arts*, 11(2), 82–94. https://fhtm.uitm.edu.my/images/jthca/Vol11Issue2/Chap_6.pdf

Fong, Belinda Chong Lynn; & Zolkepli, I. A. (2019). A content analysis of appeals in food advertisements for children on online TV streaming. *SEARCH Journal of Media and Communication Research*, 11(1), 113–136. <http://search.taylors.edu.my/documents/journals/2019-11-1/SEARCH-2019-11-1-J7-113-136.pdf>

Kanagasapapathy, Gayathri Daisy. (2019, August). Corporate Malaysia, time to rise up for tourism. *The Edge Malaysia*. <https://digital.theedgemaalaysia.com/theedgemediagroup/newsstand/title/tem>

Kanagasapapathy, Gayathri Daisy. (2019, November). Sustainability development goals. *The Edge Malaysia*. <https://digital.theedgemalaysia.com/theedgemediagroup/newsstand/title/tem>

Kanagasapapathy, Gayathri Daisy. (2019). Flow phenomenon as a heritage tourism experience: The case of maritime Greenwich, UK. In *Conference Proceedings: 25th Asia Pacific Tourism Association Conference* (pp. 438–447). Asia Pacific Tourism Association. <https://bit.ly/3jmZRUF>

Lee, Angela Siew Hoong; Chong, Ka Leong; & Chan, N. K. W. (2019). OpinionSeer: Text visualization on hotel customer reviews of services and physical environment. In K. Kim & N. Baek (Eds.), *Information Science and Applications 2018. ICISA 2018. Lecture Notes in Electrical Engineering* (Vol. 514, pp. 337–349). Springer. doi: 10.1007/978-981-13-1056-0_35

Leong, Mei Kee; Osman, S.; Paim, L.; & Fazli, S. M. (2019). Enhancing consumer online engagement through consumer involvement: A case of airline and hospitality services in Malaysia. *Management Science Letters*, 9(6), 795–808. doi: 10.5267/j.msl.2019.3.008

Mansor, N. A.; Ibrahim, M.; **Rusli, Siti 'Atikah;** Simpong, D. B.; Abd Razak, N. F.; Samengon, H.; Ridzuan, N. A.; & Othman, N. A. (2019). Empowering indigenous communities through participation in tourism. *International Journal of Tourism Anthropology*, 7(3/4), 309–329. doi: 10.1504/IJTA.2019.107323

Salem, S. F.; Tarofder, A. K.; **Chaichi, Kamelia;** & Musah, A. A. (2019). Brand love impact on the social media and stages of brand loyalty. *Polish Journal of Management Studies*, 20(1), 382–393. doi: 10.17512/pjms.2019.20.1.33

Tan, Ai Ling. (2019, April). The cost of service recovery. *The Edge Malaysia*. <https://digital.theedgemediagroup/newsstand/title/tem>

Tan, Ai Ling. (2019, October). Sustainability in service: Are we ready for it? *The Edge Malaysia*. <https://digital.theedgemediagroup/newsstand/title/tem>

Tharmabalan, Rachel Thomas. (2019, March). The hidden wealth of neglected and underutilized crops. *The Edge Malaysia*. <https://digital.theedgemediagroup/newsstand/title/tem>

Tharmabalan, Rachel Thomas. (2019, September). Revitalising Malaysian street food. *The Edge Malaysia*. <https://digital.theedgemediagroup/newsstand/title/tem>

SCHOOL OF MATHEMATICAL SCIENCES

Department of Actuarial Science and Risk

Khoo, Wooi Chen; & Chan, Lay Guat. (2019). Unemployment insurance: A case study in Malaysia. *AIP Conference Proceedings*, 2184, 050038. doi: 10.1063/1.5136426

Teh, Jane Kimm Lii; & Tey, N. P. (2019). Effects of selected leisure activities on preventing loneliness among older Chinese. *SSM – Population Health*, 9, 100479. doi: 10.1016/j.ssmph.2019.100479

Department of Applied Statistics

Chew, X. Y.; Khoo, M. B. C.; Khaw, K. W.; **Yeong, Wai Chung;** & Chong, Z. L. (2019). A proposed variable parameter control chart for monitoring the multivariate coefficient of variation. *Quality and Reliability Engineering International*, 35(7), 2442–2461. doi: 10.1002/qre.2536

Khaw, K. W.; Chew, X. Y.; Teh, S. Y.; & **Yeong, Wai Chung.** (2019). Optimal variable sample size and sampling interval control chart for the process mean based on expected average time to signal. *International Journal of Machine Learning and Computing*, 9(6), 880–885. doi: 10.18178/ijmlc.2019.9.6.887

Khoo, Wooi Chen; & Chan, Lay Guat. (2019). Unemployment insurance: A case study in Malaysia. *AIP Conference Proceedings*, 2184, 050038. doi: 10.1063/1.5136426

Khoo, Wooi Chen; & Ong, S. H. (2019). A generalized skewed exponential distribution with application to unemployment age distribution. *Malaysian Journal of Science*, 38(3), 12–23. doi: 10.22452/mjs.vol38no3.2

Lim, A. J. X.; Khoo, M. B. C.; **Yeong, Wai Chung;** & Haq, A. (2019). A run sum S chart with two sampling intervals. *International Journal of Industrial Engineering: Theory, Applications and Practice*, 26(4), 507–524. <https://journals.sfu.ca/ijietap/index.php/ijie/article/view/4272>

Lim, S. L.; **Yeong, Wai Chung;** Khoo, M. B. C.; Chong, Z. L.; & Khaw, K. W. (2019). An alternative design for the variable sample size coefficient of variation chart based on the median run length and expected median run length. *International Journal of Industrial Engineering: Theory, Applications and Practice*, 26(2), 199–220. <https://journals.sfu.ca/ijietap/index.php/ijie/article/view/4085>

Muhammad, A. N.; Chong, Z. L.; **Yeong, Wai Chung;** & Lam, W. S. (2019). Variable sample size EWMA CV chart based on expected average run length. *AIP Conference Proceedings*, 2138, 050019. doi: 10.1063/1.5121124

Ng, K. H.; Koh, Y. B.; & **Pooi, Ah Hin.** (2019). Modelling and forecasting count data with a model based on multivariate power-normal distribution: A comparative study with an application. *Economic Computation and Economic Cybernetics Studies and Research*, 53(3), 221–236. doi: 10.24818/18423264/53.3.19.13

Ng, P. S.; Khoo, M. B. C.; Saha, S.; & **Yeong, Wai Chung.** (2019). Economic and economic-statistical designs of auxiliary information based \bar{x} synthetic and EWMA charts. *Communication in Statistics—Simulation and Computation*. doi: 10.1080/03610918.2019.1664575

Department of Pure and Applied Mathematics

Chin, Jia Hou; & Mohamed Kamali, M. Z. (2019). An ant colony approach in the detection of communities in complex networks. *AIP Conference Proceedings*, 2184, 060056. doi: 10.1063/1.5136488

Hor, R. Z.; Ng, W. S.; Tan, W. K.; & **Cheong, Huey Tyng.** (2019). Valuation of American option with discrete dividend payments. *AIP Conference Proceedings*, 2184, 050025. doi: 10.1063/1.5136413

Koh, Hock Lye; Tan, Wai Kiat; Teh, S. Y.; & Tay, C. J. (2019). Water quality simulation for rehabilitation of a eutrophic lake in Selangor, Malaysia. *IOP Conference Series: Earth and Environmental Science*, 380, 012006. doi: 10.1088/1755-1315/380/1/012006

Lai, Kee Huong; Siow, W. J.; & Mohd Nooramin Kaw, A. A. (2019). Sharpe ratio-based portfolio optimization using harmony search algorithm. *Communications in Computational and Applied Mathematics*, 1(1), 23–29. <https://fazpublishing.com/ccam/index.php/ccam/article/view/2>

Lai, Kee Huong; Siow, W. J.; Mohd Nooramin Kaw, A. A.; Ong, P.; & Zainuddin, Z. (2019). Portfolio optimization using genetic algorithm and harmony search algorithm with varying operators and parameter values. *AIP Conference Proceedings*, 2184, 060061. doi: 10.1063/1.5136493

Ong, P.; Teh, T. H. C.; **Lai, Kee Huong;** Lee, W. K.; & Ismon, M. (2019). Efficient gear fault feature selection based on moth-flame optimisation in discrete wavelet packet analysis domain. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 41, 266. doi: 10.1007/s40430-019-1768-x

Sivanandam, S.; **Cheong, Huey Tyng**; & Marimuthu, B. (2019). Natural convection in an inclined porous triangular enclosure with various thermal boundary conditions. *Thermal Science*, 23(2, Part A), 537–548. doi: 10.2298/TSCI160130159S

SCHOOL OF SCIENCE AND TECHNOLOGY

Department of Biological Sciences

Akbar, N.; **Khan, Naveed Ahmed**; Sagathevan, K.; Iqbal, M.; Tawab, A.; & **Siddiqui, Ruqaiyyah**. (2019). Gut bacteria of *Cuora amboinensis* (turtle) produce broad-spectrum antibacterial molecules. *Scientific Reports*, 9, 17012. doi: 10.1038/s41598-019-52738-w

Akbar, N.; **Siddiqui, Ruqaiyyah**; Sagathevan, K. A.; Iqbal, M.; & **Khan, Naveed Ahmed**. (2019). Gut bacteria of water monitor lizard (*Varanus salvator*) are a potential source of antibacterial compound(s). *Antibiotics*, 8(4), 164. doi: 10.3390/antibiotics8040164

Akbar, N.; **Siddiqui, Ruqaiyyah**; Sagathevan, K. A.; & **Khan, Naveed Ahmed**. (2019). Gut bacteria of animals/pests living in polluted environments are a potential source of antibacterials. *Applied Microbiology and Biotechnology*, 103(10), 3955–3964. doi: 10.1007/s00253-019-09783-2

Aldoghachi, A. F.; Baharudin, A.; Ahmad, U.; Chan, S. C.; Ong, T. A.; Yunus, R.; Razack, A. H.; Yusoff, K.; & **Veerakumarasivam, Abhi**. (2019). Evaluation of CERS2 gene as a potential biomarker for bladder cancer. *Disease Markers*, 2019, 3875147. doi: 10.1155/2019/3875147

Aldoghachi, A. F.; Tor, Y. S.; Redzun, S. Z.; Lokman, K. A.; Abdul Razaq, N. A.; Shahbudin, A. F.; Badamasi, I. M.; Cheah, P. S.; Stanslas, J.; **Veerakumarasivam, Abhi**; Rosli, R.; Ibrahim, N.; Lye, M. S.; & Ling, K. H. (2019). Screening of brain-derived neurotrophic factor (BDNF) single nucleotide polymorphisms and plasma BDNF levels among Malaysian major depressive disorder patients. *PLoS ONE*, 14(1), e0211241. doi: 10.1371/journal.pone.0211241

Ali, S. M.; **Khan, Naveed Ahmed**; Sagathevan, K.; **Anwar, Ayaz**; & **Siddiqui, Ruqaiyyah**. (2019). Biologically active metabolite(s) from haemolymph of red-headed centipede *Scolopendra subspinipes* possess broad spectrum antibacterial activity. *AMB Express*, 9, 95. doi: 10.1186/s13568-019-0816-3

Amin, Z. M.; Che Ani, M. A.; Tan, S. W.; Yeap, S. K.; Alitheen, N. B.; Syed Najmuddin, S. U. F.; Kalyanasundram, J.; Chan, S. C.; **Veerakumarasivam, Abhi**; Chia, S. L.; & Yusoff, K. (2019). Evaluation of a recombinant Newcastle disease virus expressing human IL12 against human breast cancer. *Scientific Reports*, 9, 13999. doi: 10.1038/s41598-019-50222-z

Anwar, A.; Mungroo, M. R.; **Anwar, Ayaz**; Sullivan, W. J., Jr; **Khan, Naveed Ahmed**; & **Siddiqui, Ruqaiyyah**. (2019). Repositioning of guanabenz in conjugation with gold and silver nanoparticles against pathogenic amoebae *Acanthamoeba castellanii* and *Naegleria fowleri*. *ACS Infectious Diseases*, 5(12), 2039–2046. doi: 10.1021/acsinfecdis.9b00263

Anwar, Ayaz; Abdalla, S. A. O.; Aslam, Z.; Shah, M. R.; **Siddiqui, Ruqaiyyah**; & **Khan, Naveed Ahmed**. (2019). Oleic acid–conjugated silver nanoparticles as efficient anti-amoebic agent against *Acanthamoeba castellanii*. *Parasitology Research*, 118, 2295–2304. doi: 10.1007/s00436-019-06329-3

Anwar, Ayaz; Arshid, Numan; Siddiqui, Ruqaiyyah; Khalid, Mohammad; & Khan, Naveed Ahmed. (2019). Cobalt nanoparticles as novel nanotherapeutics against *Acanthamoeba castellanii*. *Parasites & Vectors*, 12, 280. doi: 10.1186/s13071-019-3528-2

Anwar, Ayaz; Khan, Naveed Ahmed; & Siddiqui, Ruqaiyyah. (2019). Galactose as novel target against *Acanthamoeba* cysts. *PLoS Neglected Tropical Diseases*, 13(7), e0007385. doi: 10.1371/journal.pntd.0007385

Anwar, Ayaz; Leong, C. F.; Anwar, A.; **Jagadish, Priyanka; Arshid, Numan; Khalid, Mohammad; Shahabuddin, Syed; Siddiqui, Ruqaiyyah; & Khan, Naveed Ahmed.** (2019). Effects of shape and size of cobalt phosphate nanoparticles against *Acanthamoeba castellanii*. *Pathogens*, 8(4), 260. doi: 10.3390/pathogens8040260

Anwar, Ayaz; Masri, A.; Rao, K.; **Rajendran, Kavitha; Khan, Naveed Ahmed;** Shah, M. R.; & **Siddiqui, Ruqaiyyah.** (2019). Antimicrobial activities of green synthesized gums-stabilized nanoparticles loaded with flavonoids. *Scientific Reports*, 9, 3122. doi: 10.1038/s41598-019-39528-0

Anwar, Ayaz; Minhaz, A.; Hussain, S. S.; Anwar, A.; Simjee, S. U.; Ishaq, M.; **Khan, Naveed Ahmed;** & Shah, M. R. (2019). Pyrazinium thioacetate capped gold nanoparticles as Fe(III) sensor and Fe(III) marked anti-proliferating agent in human neuroblastoma cells. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 206, 135–140. doi: 10.1016/j.saa.2018.07.099

Anwar, Ayaz; Perveen, S.; Ahmed, S.; **Siddiqui, Ruqaiyyah;** Shah, M. R.; & **Khan, Naveed Ahmed.** (2019). Silver nanoparticle conjugation with thiopyridine exhibited potent antibacterial activity against *Escherichia coli* and further enhanced by copper capping. *Jundishapur Journal of Microbiology*, 12(3), e74455. doi: 10.5812/jjm.74455

Anwar, Ayaz; Rajendran, Kavitha; Siddiqui, Ruqaiyyah; Shah, M. R.; & **Khan, Naveed Ahmed.** (2019). Clinically approved drugs against CNS diseases as potential therapeutic agents to target brain-eating amoebae. *ACS Chemical Neuroscience*, 10(1), 658–666. doi: 10.1021/acscchemneuro.8b00484

Anwar, Ayaz; Shahbaz, M. S.; Saad, S. M.; Kanwal; Khan, K. M.; **Siddiqui, Ruqaiyyah;** & **Khan, Naveed Ahmed.** (2019). Novel antiacanthamoebic compounds belonging to quinazolinones. *European Journal of Medicinal Chemistry*, 182, 111575. doi: 10.1016/j.ejmech.2019.111575

Anwar, Ayaz; Shah, M. R.; Muhammad, S. P.; Ali, K.; & **Khan, Naveed Ahmed.** (2019). Synthesis of 4-formyl pyridinium propylthioacetate stabilized silver nanoparticles and their application in chemosensing of 6-aminopenicillanic acid (APA). *International Journal of Environmental Science and Technology*, 16, 1563–1570. doi: 10.1007/s13762-018-1745-4

Anwar, Ayaz; Siddiqui, Ruqaiyyah; & **Khan, Naveed Ahmed.** (2019). Importance of theranostics in rare brain-eating amoebae infections. *ACS Chemical Neuroscience*, 10(1), 6–12. doi: 10.1021/acscchemneuro.8b00321

Anwar, Ayaz; Siddiqui, Ruqaiyyah; Shah, M. R.; & **Khan, Naveed Ahmed.** (2019). Antidiabetic drugs and their nanoconjugates repurposed as novel antimicrobial agents against *Acanthamoeba castellanii*. *Journal of Microbiology and Biotechnology*, 29(5), 713–720. doi: 10.4014/jmb/1903.03009

Anwar, Ayaz; Siddiqui, Ruqaiyyah; Shah, M. R.; & **Khan, Naveed Ahmed.** (2019). Gold nanoparticles conjugation enhances antiacanthamoebic properties of nystatin, fluconazole and amphotericin B. *Journal of Microbiology and Biotechnology*, 29(1), 171–177. doi: 10.4014/jmb.1805.05028

Chen, Jit Ern; Barbrook, A. C.; Cui, G.; Howe, C. J.; & Aranda, M. (2019). The genetic intractability of *Symbiodinium microadriaticum* to standard algal transformation methods. *PLoS ONE*, 14(2), e0211936. doi: 10.1371/journal.pone.0211936

Chong, P. S.; Poon, C. H.; Fung, M. L.; Guan, L.; Steinbusch, H. W. M.; Chan, Y. S.; **Lim, Wei Ling;** & **Lim, Lee Wei.** (2019). Distribution of neuronal nitric oxide synthase immunoreactivity in adult male Sprague-Dawley rat brain. *Acta Histochemica*, 121(8), 151437. doi: 10.1016/j.acthis.2019.08.004

Coleman, J. L.; Ascher, J. S.; Bickford, D.; Buchori, D.; Cabanban, A.; Chisholm, R. A.; Chong, K. Y.; Christie, P.; **Clements, Gopalasamy Reuben;** dela Cruz, T. E. E.; Dressler, W.; Edwards, D. P.; Francis, C. M.; Friess, D. A.; Giam, X.; Gibson, L.; Huang, D.; Hughes, A. C.; Jaafar, Z.; Jain, A.; Koh, L. P.; Kudavidanage, E. P.; Lee, B. P. Y. H.; Lee, J.; Lee, T. M.; Leggett, M.; Leimona, B.; Linkie, M.; Luskin, M.; Lynam, A.; Meijaard, E.; Nijman, V.; Olsson, A.; Page, S.; Parolin, P.; Peh, K. S. H.; Posa, M. R.; Prescott, G. W.; Rahman, S. A.; Ramchunder, S. J.; Rao, M.; Reed, J.; Richards, D. R.; Slade, E. M.; Steinmetz, R.; Tan, P. Y.; Taylor, D.; Todd, P. A.; Vo, S. T.; Webb, E. L.; Ziegler, A. D.; & Carrasco, L. R. (2019). Top 100 research questions for biodiversity conservation in Southeast Asia. *Biological Conservation*, 234, 211–220. doi: 10.1016/j.biocon.2019.03.028

Gabriel, S.; **Khan, Naveed Ahmed**; & **Siddiqui, Ruqaiyyah**. (2019). Occurrence of free-living amoebae (*Acanthamoeba*, *Balamuthia*, *Naegleria*) in water samples in Peninsular Malaysia. *Journal of Water & Health*, 17(1), 160–171. doi: 10.2166/wh.2018.164

Gew, Lai Ti; Suk, V. R. E.; & Misran, M. (2019). Preparation and characterization of PEGylated c18 fatty acids/anti-SNAP25 antibody-targeted liposomes. *Current Chemical Biology*, 13(2), 129–139. doi: 10.2174/2212796812666180912113156

Heng, Boon Chin; Jiang, S.; Yi, B.; Gong, T.; **Lim, Lee Wei**; & Zhang, C. (2019). Small molecules enhance neurogenic differentiation of dental-derived adult stem cells. *Archives of Oral Biology*, 102, 26–38. doi: 10.1016/j.archoralbio.2019.03.024

Hussain, M. A.; Ahmed, D.; **Anwar, Ayaz**; Perveen, S.; Ahmed, S.; Anis, I.; Shah, M. R.; & **Khan, Naveed Ahmed**. (2019). Combination therapy of clinically approved antifungal drugs is enhanced by conjugation with silver nanoparticles. *International Microbiology*, 22, 239–246. doi: 10.1007/s10123-018-00043-3

Hussain, R. H. M.; Ishak, A. R.; Ghani, M. K. A.; **Khan, Naveed Ahmed**; **Siddiqui, Ruqaiyyah**; & Anuar, T. S. (2019). Occurrence and molecular characterisation of *Acanthamoeba* isolated from recreational hot springs in Malaysia: Evidence of pathogenic potential. *Journal of Water & Health*, 17(5), 813–825. doi: 10.2166/wh.2019.214

Ishak, N. N. M.; Jamsari, J.; Ismail, A. Z.; Tahir, M. I. M.; **Tiekink, Edward R. T.; Veerakumarasivam, Abhi;** & Ravoof, T. B. S. A. (2019). Synthesis, characterisation and biological studies of mixed-ligand nickel (II) complexes containing imidazole derivatives and thiosemicarbazide Schiff bases. *Journal of Molecular Structure*, 1198, 126888. doi: 10.1016/j.molstruc.2019.126888

Ismail, N. A.; Shameli, K.; Wong, M. M. T.; **Teow, Sin Yeang; Chew, Jactty;** & Mohamad Sukri, S. N. A. (2019). Antibacterial and cytotoxic effect of honey mediated copper nanoparticles synthesized using ultrasonic assistance. *Materials Science and Engineering: C*, 104, 109899. doi: 10.1016/j.msec.2019.109899

Jeyamorgen, S.; **Khan, Naveed Ahmed;** Sagathevan, K.; & **Siddiqui, Ruqaiyyah.** (2019). Sera/organ lysates of selected animals living in polluted environments exhibit cytotoxicity against cancer cell lines. *Anti-Cancer Agents in Medicinal Chemistry*, 19(18), 2251–2268. doi: 10.2174/1871520619666191011161314

Khan, Naveed Ahmed; Soopramanien, M.; & **Siddiqui, Ruqaiyyah.** (2019). Crocodiles and alligators: Physicians' answer to cancer? *Current Oncology*, 26(3), 186. doi: 10.3747/co.26.4855

Lahiri, Chandrajit. (2019). Quorum sensing complexity of the gut enterobacteria *Escherichia coli* and *Salmonella enterica*. In P. V. Bramhachari (Ed.), *Implication of Quorum Sensing System in Biofilm Formation and Virulence* (pp. 233–248). Springer. doi: 10.1007/978-981-13-2429-1_15

Lahiri, Chandrajit; Pawar, S.; & Mishra, R. (2019). Precision medicine and the future of cancer treatment. *Precision Cancer Medicine*. doi: 10.21037/pcm.2019.09.01

Lee, K. X.; Shameli, K.; Mohamad, S. E.; Yew, Y. P.; Mohamad Isa, E. D.; Yap, H. Y.; **Lim, Wei Ling**; & **Teow, Sin Yeang**. (2019). Bio-mediated synthesis and characterisation of silver nanocarrier, and its potent anticancer action. *Nanomaterials*, 9(10), 1423. doi: 10.3390/nano9101423

Lorenzo-Morales, J.; Sifaoui, I.; Reyes-Batlle, M.; Lares-Villa, F.; Lares-Jiménez, L. F.; Omaña-Molina; **Khan, Naveed Ahmed**; & Maciver, S. K. (2019). Special issue on free living amoebae (FLA): Recent advances presented at the XVIIth International Meeting on the Biology and Pathogenicity of Free-Living Amoebae (FLAM, 2017), Zarzis, Tunisia. *Experimental Parasitology*, 200, 36. doi: 10.1016/j.exppara.2019.03.010

Macdonald, D. W.; Bothwell, H. M.; Kaszta, Ž.; Ash, E.; Bolongon, G.; Burnham, D.; Can, Ö. E.; Campos-Arceiz, A.; Channa, P.; **Clements, Gopalsamy Reuben**; Hearn, A. J.; Hedges, L.; Htun, S.; Kamler, J. F.; Kawanishi, K.; Macdonald, E. A.; Mohamad, S. W.; Moore, J.; Naing, H.; Onuma, M.; Penjor, U.; Rasphone, A.; Rayan, D. M.; Ross, J.; Singh, P.; Tan, C. K. W.; Wadey, J.; Yadav, B. P.; & Cushman, S. A. (2019). Multi-scale habitat modelling identifies spatial conservation priorities for mainland clouded leopards (*Neofelis nebulosa*). *Diversity and Distributions*, 25(10), 1639–1654. doi: 10.1111/ddi.12967

Masri, A.; **Anwar, Ayaz; Khan, Naveed Ahmed**; Shahbaz, M. S.; Khan, K. M.; **Shahabuddin, Syed**; & **Siddiqui, Ruqaiyyah**. (2019). Antibacterial effects of quinazolin-4(3H)-one functionalized-conjugated silver nanoparticles. *Antibiotics*, 8(4), 179. doi: 10.3390/antibiotics8040179

Masri, A.; **Anwar, Ayaz; Khan, Naveed Ahmed**; & **Siddiqui, Ruqaiyyah**. (2019). The use of nanomedicine for targeted therapy against bacterial infections. *Antibiotics*, 8(4), 260. doi: 10.3390/antibiotics8040260

Md Yusof, E. N.; Latif, M. A. M.; Tahir, M. I. M.; Sakoff, J. A.; Simone, M. I.; Page, A. J.; **Veerakumarasivam, Abhi; Tiekink, Edward R. T.**; & Ravooof, T. B. S. A. (2019). o-Vanillin derived Schiff bases and their organotin(IV) compounds: Synthesis, structural characterisation, in-silico studies and cytotoxicity. *International Journal of Molecular Sciences*, 20(4), 854. doi: 10.3390/ijms20040854

Minhaz, A.; **Anwar, Ayaz**; Ahmad, I.; Khattak, R.; Yaseen, M.; Ahmed, F.; Shah, M. R.; **Khan, Naveed Ahmed**; & Ishaq, M. (2019). A flexible Schiff base probe for spectrophotometric detection of chromium (III). *International Journal of Environmental Science and Technology*, 16, 5577–5584. doi: 10.1007/s13762-018-2103-2

Mohamad Sukri, S. N. A.; Shameli, K.; Wong, M. M. T.; **Teow, Sin Yeang; Chew, Jactty**; & Ismail, N. A. (2019). Cytotoxicity and antibacterial activities of plant-mediated synthesized zinc oxide (ZnO) nanoparticles using *Punica granatum* (pomegranate) fruit peels extract. *Journal of Molecular Structure*, 1189, 57–65. doi: 10.1016/j.molstruc.2019.04.026

Mujawar, S.; Mishra, R.; Pawar, S.; Gatherer, D.; & **Lahiri, Chandrajit**. (2019). Delineating the plausible molecular vaccine candidates and drug targets of multidrug-resistant *Acinetobacter baumannii*. *Frontiers in Cellular and Infection Microbiology*, 9, 203. doi: 10.3389/fcimb.2019.00203

Mukheem, A.; **Shahabuddin, Syed**; Akbar, N.; Miskon, A.; Muhamad Sarih, N.; Sudesh, K.; **Khan, Naveed Ahmed; Rahman, Saidur**; & Sridewi, N. (2019). Boron nitride doped polyhydroxyalkanoate/chitosan nanocomposite for antibacterial and biological applications. *Nanomaterials*, 9(4), 645. doi: 10.3390/nano9040645

Mungroo, M. R.; **Anwar, Ayaz; Khan, Naveed Ahmed; & Siddiqui, Ruqaiyyah.** (2019). Brain-eating amoebae infection: Challenges and opportunities in chemotherapy. *Mini-Reviews in Medicinal Chemistry*, 19(12), 980–987. doi: 10.2174/1389557519666190313161854

Mungroo, M. R.; **Khan, Naveed Ahmed; & Siddiqui, Ruqaiyyah.** (2019). *Naegleria fowleri*: Diagnosis, treatment options and pathogenesis. *Expert Opinion on Orphan Drugs*, 7(2), 67–80. doi: 10.1080/21678707.2019.1571904

Nimmo, I. C.; Barbrook, A. C.; Lassadi, I.; **Chen, Jit Ern;** Geisler, K.; Smith, A. G.; Aranda, M.; Purton, S.; Waller, R. F.; Nisbet, R. E. R.; & Howe, C. K. (2019). Genetic transformation of the dinoflagellate chloroplast. *eLife*, 8, e45292. doi: 10.7554/eLife.45292

Pardo, L. E.; Campbell, M. J.; Cove, M. V.; Edwards, W.; **Clements, Gopalasamy Reuben;** & Laurance, W. F. (2019). Land management strategies can increase oil palm plantation use by some terrestrial mammals in Colombia. *Scientific Reports*, 9(1), 7812. doi: 10.1038/s41598-019-44288-y

Pawar, S.; Bramhachari, P. V.; & **Lahiri, Chandrajit.** (2019). In silico approaches for unearthing bacterial quorum-sensing inhibitors against pathogenic bacteria. In P. V. Bramhachari (Ed.), *Implication of Quorum Sensing and Biofilm Formation in Medicine, Agriculture and Food Industry* (pp. 67–83). Springer. doi: 10.1007/978-981-32-9409-7_6

Ponnusamy, M.; Karthikeyan, C. V.; & **Ramanathan, Babu.** (2019). Metagenomics in detection of silkworm gut microbiome diversity. In V. Tripathi, P. Kumar, P. Tripathi, A. Kishore, & M. Kamle (Eds.), *Microbial Genomics in Sustainable Agroecosystems* (pp. 359–370). Springer. doi: 10.1007/978-981-32-9860-6_17

Rädecker, N.; **Chen, Jit Ern**; Pogoreutz, C.; Herrera, M.; Aranda, M.; & Voolstra, C. R. (2019). Nutrient stress arrests tentacle growth in the coral model *Aiptasia*. *Symbiosis*, 78, 61–64. doi: 10.1007/s13199-019-00603-9

Rajendran, Kavitha; Anwar, Ayaz; Khan, Naveed Ahmed; Shah, M. R.; & **Siddiqui, Ruqaiyyah**. (2019). trans-Cinnamic acid conjugated gold nanoparticles as potent therapeutics against brain-eating amoeba *Naegleria fowleri*. *ACS Chemical Neuroscience*, 10(6), 2692–2696. doi: 10.1021/acscemneuro.9b00111

Rajendran, Kavitha; Anwar, Ayaz; Khan, Naveed Ahmed; Aslam, Z.; Shah, M. R.; & **Siddiqui, Ruqaiyyah**. (2019). Oleic acid coated silver nanoparticles showed better in vitro amoebicidal effects against *Naegleria fowleri* than amphotericin B. *ACS Chemical Neuroscience*, 11(16), 2431–2437. doi: 10.1021/acscemneuro.9b00289

Reginald, Kavita; & Chew, F. T. (2019). The major allergen Der p 2 is a cholesterol binding protein. *Scientific Reports*, 9, 1556. doi: 10.1038/s41598-018-38313-9

Reginald, Kavita; Pang, S. L.; & Chew, F. T. (2019). Blo t 2: Group 2 allergen from the dust mite *Blomia tropicalis*. *Scientific Reports*, 9, 12239. doi: 10.1038/s41598-019-48688-y

Roberts, R.; **Yee, Pinn Tsin Isabel**; Mujawar, S.; **Lahiri, Chandrajit; Poh, Chit Laa**; & Gatherer, D. (2019). A decade of sustained selection pressure on two surface sites of the VPI protein of Enterovirus A71 suggests that immune evasion may be an indirect driver for virulence. *Scientific Reports*, 9(1), 5427. doi: 10.1038/s41598-019-41662-8

Siddiqui, Ruqaiyyah; Anwar, Ayaz; Ali, S.; & **Khan, Naveed Ahmed.** (2019). Antibacterial effects of derivatives of porphyrin, naphthalene diimide, aminophenol and benzodioxane on methicillin resistant *Staphylococcus aureus* and neuropathogenic *Escherichia coli* K1. *Anti-Infective Agents*, 18(3), 275–284. doi: 10.2174/2211352517666190628111232

Siddiqui, Ruqaiyyah; Roberts, R. K.; Ong, T. Y. Y.; Mungroo, M. R.; **Anwar, Ayaz;** & **Khan, Naveed Ahmed.** (2019). Novel insights into the potential role of ion transport in sensory perception in *Acanthamoeba*. *Parasites & Vectors*, 12, 538. doi: 10.1186/s13071-019-3785-0

Tan, L. T. H.; Mahendra, C. K.; **Yow, Yoon Yen;** Chan, K. G.; Khan, T. M.; Lee, L. H.; & Goh, B. H. (2019). *Streptomyces* sp. MUM273b: A mangrove-derived potential source for antioxidant and UVB radiation protectants. *MicrobiologyOpen*, 8(10), e859. doi: 10.1002/mbo3.859

Tan, Y. J.; **Tan, Yee Seng; Yeo, Chien Ing; Chew, Jactty;** & **Tiekink, Edward R. T.** (2019). In vitro anti-bacterial and time kill evaluation of binuclear tricyclohexylphosphanesilver(I) dithiocarbamates, $\{C_6H_5PAg(S_2CNRR')\}_2$. *Journal of Inorganic Biochemistry*, 192, 107–118. doi: 10.1016/j.jinorgbio.2018.12.017

Yap, W. F.; Tay, V.; Tan, S. H.; **Yow, Yoon Yen;** & **Chew, Jactty.** (2019). Decoding antioxidant and antibacterial potentials of Malaysian green seaweeds: *Caulerpa racemosa* and *caulerpa lentillifera*. *Antibiotics*, 8(3), 152. doi: 10.3390/antibiotics8030152

Yee, Pinn Tsin Isabel; Tan, S. H.; Ong, K. C.; **Tan, Kuan Onn;** Wong, K. T.; Syed Hassan, S.; & **Poh, Chit Laa.** (2019). Development of live attenuated Enterovirus 71 vaccine strains that confer protection against lethal challenge in mice. *Scientific Reports*, 9, 4805. doi: 10.1038/s41598-019-41285-z

Yeo, Y.; Tan, J. B. L.; **Lim, Lee Wei; Tan, Kuan Onn; Heng, Boon Chin; & Lim, Wei Ling.** (2019). Human embryonic stem cell-derived neural lineages as in vitro models for screening the neuroprotective properties of *Lignosus rhinocerus* (Cooke) Ryvarden. *BioMed Research International*, 2019, 3126376. doi: 10.1155/2019/3126376

Department of Computing and Information Systems

Abd Majid, K.; **Yusoff, Zaharin;** & Jemain, A. A. (2019). A new mathematical model for traffic systems: The basic traffic unit. *Journal of Creative Practices in Language Learning and Teaching (CPLT)*, 7(1, Special Issue), 34–41. https://cplt.uitm.edu.my/v1/images/v7n1/Article6_Special_Issue.pdf

Ahad, A.; Tahir, M.; & **Yau, Alvin Kok Lim.** (2019). 5G-based smart healthcare network: Architecture, taxonomy, challenges and future research directions. *IEEE Access*, 7, 100747–100762. doi: 10.1109/ACCESS.2019.2930628

Alam, F.; Faulkner, N.; Legg, M.; & **Demidenko, Serge.** (2019). Indoor visible light positioning using spring-relaxation technique in real-world setting. *IEEE Access*, 7, 91347–91359. doi: 10.1109/ACCESS.2019.2927922

Al-Hidabi, M. D. A.; & **Teh, Phoey Lee.** (2019). Multiple publications: The main reason for the retraction of papers in computer science. In K. Arai, S. Kapoor, & R. Bhatia (Eds.), *Advances in Information and Communication Networks. FICC 2018. Advances in Intelligent Systems and Computing* (Vol 886, 511 – 526). Springer. doi: 10.1007/978-3-030-03402-3_35

Baqar, M.; **Lau, Sian Lun**; & Ebrahim, M. (2019). FR-IQA—Permutation Entropy Deviation Index. *2019 IEEE Visual Communications and Image Processing (VCIP)*. doi: 10.1109/VCIP47243.2019.8965849

Baqar, M.; **Lau, Sian Lun**; & Ebrahim, M. (2019). GMSD-based perceptually motivated non-local means filter for image denoising. *2019 IEEE International Symposium on Haptic, Audio and Visual Environments and Games (HAVE)*. doi: 10.1109/HAVE.2019.8921188

Chamran, M. K.; & **Yau, Alvin Kok Lim**. (2019). An experimental comparison between centralized and distributed testbeds for 5G-based networks. *2019 International Conference on Information and Communication Technology Convergence (ICTC)*. doi: 10.1109/ICTC46691.2019.8939973

Chan, B.; Lim, K. H.; Gopal, L.; Gopalai, A. A.; **Chia, Wai Chong**; & Chew, W. J. (2019). Marker-less stereo-vision human motion tracking using hybrid filter in unconstrained environment. *TENCON 2018 - 2018 IEEE Region 10 Conference*. doi: 10.1109/TENCON.2018.8650462

Chang, E. M. L.; & **Chua, Hui Na**. (2019). SQL and NoSQL database comparison: from performance perspective in supporting semi-structured data. In K. Arai, S. Kapoor, & R. Bhatia (Eds.), *Advances in Information and Communication Networks. FICC 2018. Advances in Intelligent Systems and Computing* (Vol. 886, pp. 294–310). Springer. doi: 10.1007/978-3-030-03402-3_20

Chang, Y.; **Wong, Siew Fan**; Eze, U.; & Lee, H. (2019). The effect of IT ambidexterity and cloud computing absorptive capacity on competitive advantage. *Industrial Management & Data Systems*, 119(3), 613–638. doi: 10.1108/IMDS-05-2018-0196

Chang, Y.; **Wong, Siew Fan**; Libaque-Saenz, C. F.; & Lee, H. (2019). e-Commerce sustainability: The case of Pinduoduo in China. *Sustainability*, 11(15), 4053. doi: 10.3390/su11154053

Chin, L. C. K.; **Eu, Kok Seng**; Tay, T. T.; Teoh, C. Y.; & **Yap, Kian Meng**. (2019). A posture recognition model dedicated for differentiating between proper and improper sitting posture with kinect sensor. *2019 IEEE International Symposium on Haptic, Audio and Visual Environments and Games (HAVE)*. doi: 10.1109/HAVE.2019.8920964

Ch'ng, Sue Inn; Low, Yeh Ching; Lee, Yun Li; Chia, Wai Chong; & Yeong, Lee Seng. (2019). Video games: A potential vehicle for teaching computational thinking. In S. C. Kong & H. Abelson (Eds.), *Computational Thinking Education* (pp. 247–260). Springer. doi: 10.1007/978-981-13-6528-7_14

Ch'ng, Sue Inn; & Tang, A. (2019). Redesigning a compulsory computing internship course for massification. *2018 IEEE International Conference on Teaching, Assessment, and Learning for Engineering (TALE)*. doi: 10.1109/TALE.2018.8615363

Ch'ng, Sue Inn; Yeong, Lee Seng; & Ang, X. Y. (2019). Preliminary findings of using chat-bots as a course FAQ tool. *2019 IEEE Conference on e-Learning, e-Management & e-Services (IC3e)*. doi: 10.1109/IC3e47558.2019.8971786

Dabbagh, Mohammad; Kakavand, Mohsen; & Tahir, Mohammad. (2019). Towards integration of blockchain and IoT: A bibliometric analysis of state-of-the-art. In J. Prieto, A. Das, S. Ferretti, A. Pinto, & J. Corchado (Eds.), *Blockchain and Applications. BLOCKCHAIN 2019. Advances in Intelligent Systems and Computing* (Vol. 1010, pp. 27–35). Springer. doi: 10.1007/978-3-030-23813-1_4

Dabbagh, Mohammad; Sookhak, M.; & Safa, N. S. (2019). The evolution of blockchain: A bibliometric study. *IEEE Access*, 7, 19212–19221. doi: 10.1109/ACCESS.2019.2895646

Demidenko, Serge; Ooi, M.; Akmeliawati, R.; Gupta, G. S.; Kuang, Y. C.; Bailey, D.; Khan, S.; Gamage, N.; & Bilal, S. (2019). Developing automatic markerless sign language gesture tracking and recognition system. *2019 IEEE International Symposium on Haptic, Audio and Visual Environments and Games (HAVE)*. doi: 10.1109/HAVE.2019.8921358

Demidenko, Serge; Ooi, M.; Chew, M. T.; Kuang, Y. C.; & Rajan, A. (2019). Addressing emerging needs of hi-tech industry: Collaborative engineering program in electronic testing, instrumentation and measurement. *2019 IEEE International Instrumentation and Measurement Technology Conference (I2MTC)*. doi: 10.1109/I2MTC.2019.8827016

Dinero, J.; & **Chua, Hui Na.** (2019). Predicting personal mobility data disclosure. *2018 IEEE Conference on Big Data and Analytics (ICBDA)*. doi: 10.1109/ICBDAA.2018.8629651

Ebrahim, M.; **Chia, Wai Chong;** Adil, S. H.; & Raza, K. (2019). Block compressive sensing (BCS) based low complexity, energy efficient visual sensor platform with joint multi-phase decoder (JMD). *Sensors*, 19(10), 2309. doi: 10.3390/s19102309

Eu, Kok Seng; & **Yap, Kian Meng.** (2019). A chemical/gas plume tracing robot simulator for quadrotor platforms: A modified gaussian-meandering plume propagation model. *Malaysian Journal of Computer Science, Special Issue 1/2019*, 1–24. doi: 10.22452/mjcs.sp2019no1.1

Faulkner, N.; Alam, F.; Legg, M.; & **Demidenko, Serge**. (2019). Smart wall: Passive visible light positioning with ambient light only. *2019 IEEE International Instrumentation and Measurement Technology Conference (I2MTC)*. doi: 10.1109/I2MTC.2019.8826875

Gan, M. F.; **Chua, Hui Na**; Tan, I. A. L.; & **Wong, Siew Fan**. (2019). Understanding employees' perception towards personal data protection through their work processes in privacy enhancing technologies (PETs) adoption. *The Malaysian Journal of Qualitative Research*, 5(2), 6–21. <https://www.qramalaysia.org/journal-vol5-no2>

Gan, M. F.; **Chua, Hui Na**; & **Wong, Siew Fan**. (2019). Privacy enhancing technologies implementation: An investigation of its impact on work processes and employee perception. *Telematics and Informatics*, 38, 13–29. doi: 10.1016/j.tele.2019.01.002

Hassan, N.; **Yau, Alvin Kok Lim**; & Wu, C. (2019). Edge computing in 5G: A review. *IEEE Access*, 7, 127276–127289. doi: 10.1109/ACCESS.2019.2938534

Holmes, W. S.; Ooi, M. P. L.; Look, M.; Chow, Y.; Simpkin, R.; Blanchon, D.; & **Demidenko, Serge**. (2019). Proximal near-infrared spectral reflectance characterisation of weeds species in New Zealand pasture. *2019 IEEE International Instrumentation and Measurement Technology Conference (I2MTC)*. doi: 10.1109/I2MTC.2019.8826876

Hossain, M. A.; Noor, R. M.; **Yau, Alvin Kok Lim**; Ahmedy, I.; & Anjum, S. S. (2019). A survey on simultaneous wireless information and power transfer with cooperative relay and future challenges. *IEEE Access*, 7, 19166–19198. doi: 10.1109/ACCESS.2019.2895645

Irfan, M.; Saad, N.; Ali, A.; Vinoth Kumar, K.; **Aman Sheikh, Muhammad;** & Awais, M. (2019). A condition monitoring system for the analysis of bearing distributed faults. *2019 IEEE 10th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON)*. doi: 10.1109/UEMCON47517.2019.8993006

Jou, C.; & **Lau, Sian Lun.** (2019). Weight-adjustable ranking for keyword search in relational databases. In V. Piuri, V. Balas, S. Borah, & S. Syed Ahmad (Eds.), *Intelligent and Interactive Computing. Lecture Notes in Networks and Systems* (Vol. 67, pp. 45–57). Springer. doi: 10.1007/978-981-13-6031-2_31

Kakavand, Mohsen; Mustapha, A.; Tan, Z.; Yazdani, S. F.; & Arulsamy, L. (2019). O-ADPI: Online adaptive deep-packet inspector using Mahalanobis Distance Map for web service attacks classification. *IEEE Access*, 7, 167141–167156. doi: 10.1109/ACCESS.2019.2953791

Khalid, H. M.; **Yap, Kian Meng;** & **Lin, Mei-Hua.** (2019). Modelling risk attitude and situation awareness in tsunami disaster; implications for design of drone surveillance and early warning system. *2019 IEEE 6th Asian Conference on Defence Technology (ACDT)*. doi: 10.1109/ACDT47198.2019.9072924

Lee, Angela Siew Hoong; **Chong, Ka Leong;** & Chan, N. K. W. (2019). OpinionSeer: Text visualization on hotel customer reviews of services and physical environment. In K. Kim & N. Baek (Eds.), *Information Science and Applications 2018. ICISA 2018. Lecture Notes in Electrical Engineering* (Vol. 514, pp. 337–349). Springer. doi: 10.1007/978-981-13-1056-0_35

Lee, Angela Siew Hoong; Kudbuddin, A.; & **Teh, Phoey Lee.** (2019). Data visualisation: World happiness at a glance! In H. Badioze Zaman, A. F. Smeaton, T. K. Shih, S. Velastin, T. Terutoshi, N. M. Ali, & M. N. Ahmad (Eds.), *Advances in Visual Informatics. IVIC 2019. Lecture Notes in Computer Science* (Vol. 11870, pp. 60–70). Springer. doi: 10.1007/978-3-030-34032-2_6

Lee, Angela Siew Hoong; Ng, C.; Zainol, Z.; & Chan, K. W. (2019). Decision tree: Customer churn analysis for a loyalty program using data mining algorithm. In M. W. Berry, B. W. Yap, A. Mohamed, & M. Köppen (Eds.), *Soft Computing in Data Science. SCDS 2019. Communications in Computer and Information Science* (Vol. 1100, pp. 14–27). Springer. doi: 10.1007/978-981-15-0399-3_2

Lee, Angela Siew Hoong; & Passey, D. (2019). Sustaining digital technology use in professional communities. In A. Tatnall (Ed.), *Encyclopedia of Education and Information Technologies*. Springer. doi: 10.1007/978-3-319-60013-0_236-1

Lee, Chien Sing. (2019). In search of an optimizer matrix for affordance design. *2019 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)*. doi: 10.1109/IEEM44572.2019.8978775

Lee, Chien Sing; & Bo, J. (2019). Assessment of computational thinking (CT) in scratch fractal projects: Towards CT-HCI scaffolds for analogical-fractal thinking. In *Proceedings of the 11th International Conference on Computer Supported Education (CSEDU 2019)* (pp. 192–199). doi: 10.5220/0007755401920199

Lee, Chien Sing; & Hughes, J. H. (2019). Refocusing on cognitive load design through a meta-analysis on learnability, goal-based intentions and extensibility: Towards personalized cognitive-social-affective engagement among seniors. In H. Fujita & A. Selamat (Eds.), *Frontiers in Artificial Intelligence and Applications: Advancing Technology Industrialization Through Intelligent Software Methodologies, Tools and Techniques* (Vol. 318, pp. 456–469). doi: 10.3233/FAIA190071

Lee, Chien Sing; Tiong, A.; Tang, W. L.; & Yap, K. H. (2019). Data-driven ‘market basket’-pricing and personalized health information services using salesforce’s model-driven systems service design. *2019 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)*. doi: 10.1109/IEEM44572.2019.8978835

Lee, H.; **Wong, Siew Fan;** Oh, J.; & Chang, Y. (2019). Information privacy concerns and demographic characteristics: Data from a Korean media panel survey. *Government Information Quarterly*, 36(2), 294–303. doi: 10.1016/j.giq.2019.01.002

Lee, J. C. L.; **Teh, Phoey Lee;** Lau, Sian Lun; & Pak, I. (2019). Compilation of Malay criminological terms from online news. *Indonesian Journal of Electrical Engineering and Computer Science*, 15(1), 355–364. doi: 10.11591/ijeecs.v15.i1.pp355-364

Lim, Woan Ning; Lee, Yun Li; & Anggoro, I. (2019). Augmented reality 3D cubes puzzle bingo game for the elderly. *2019 IEEE International Symposium on Haptic, Audio and Visual Environments and Games (HAVE)*. doi: 10.1109/HAVE.2019.8921044

Ling, Mee Hong; & Yau, Alvin Kok Lim. (2019). Artificial intelligence-based attack and countermeasure agents: Who wins? An invited paper. *2019 7th International Conference on Smart Computing & Communications (ICSCC)*. doi: 10.1109/ICSCC.2019.8843608

Ling, Mee Hong; & Yau, Alvin Kok Lim. (2019). Can reinforcement learning address security issues? An investigation into a clustering scheme in distributed cognitive radio networks. *2019 International Conference on Information Networking (ICOIN)*. doi: 10.1109/ICOIN.2019.8718163

Ling, Mee Hong; Yau, Alvin Kok Lim; Qadir, J.; & Ni, Q. (2019). A reinforcement learning-based trust model for cluster size adjustment scheme in distributed cognitive radio networks. *IEEE Transactions on Cognitive Communications and Networking*, 5(1), 28–43. doi: 10.1109/TCCN.2018.2881135

Manohar, A. L.; **Yau, Alvin Kok Lim; Ling, Mee Hong; & Khan, S.** (2019). A security-enhanced cluster size adjustment scheme for cognitive radio networks. *IEEE Access*, 7, 117–130. doi: 10.1109/ACCESS.2018.2885070

Maruthappa, Muthukumaran; Lee, Yun Li; Wong, Siew Fan; & Damodaran, P. (2019). Awareness, knowledge, and attitude towards pregnancy complications among pregnant women in Malaysia. In *Proceeding of AICTE Sponsored International Conference on Recent Trends and Challenges in Healthcare Informatics* (pp. 283–290). All India Council for Technical Education (AICTE). ISBN: 9788194077138

Mon, C. S.; **Yap, Kian Meng; & Ahmad, A.** (2019). A preliminary study on requirements of olfactory, haptic and audio enabled application for visually impaired in edutainment. *2019 IEEE 9th Symposium on Computer Applications & Industrial Electronics (ISCAIE)*. doi: 10.1109/ISCAIE.2019.8743738

Mon, C. S.; **Yap, Kian Meng**; & Ahmad, A. (2019). Evaluation of 3DOHA enhanced virtual edutainment application for visually impaired users: A pilot study. *2019 IEEE International Symposium on Haptic, Audio and Visual Environments and Games (HAVE)*. doi: 10.1109/HAVE.2019.8920889

Musavi, M.; **Yau, Alvin Kok Lim**; Mohamad, H.; & Ramili, N. (2019). Performance evaluation of route selection schemes over a clustered cognitive radio network. *2019 IEEE VTS Asia Pacific Wireless Communications Symposium (APWCS)*. doi: 10.1109/VTS-APWCS.2019.8851652

Muthu, S. P. M.; **Lau, Sian Lun**; & Jou, C. (2019). Recognition of eye movements based on EEG signals and the SAX algorithm. In V. Piuri, V. Balas, S. Borah, & S. Syed Ahmad (Eds.), *Intelligent and Interactive Computing. Lecture Notes in Networks and Systems* (Vol. 67, pp. 237–247). Springer. doi: 10.1007/978-981-13-6031-2_38

Nandy, T.; Idris, M. Y. I.; Noor, R. M.; Mat Kiah, L.; **Lau, Sian Lun**; Juma'at, N. B. A.; Ahmedy, I.; Abdul Ghani, N.; & Bhattacharyyam, S. (2019). Review on security of internet of things authentication mechanism. *IEEE Access*, 7, 151054–151089. doi: 10.1109/ACCESS.2019.2947723.

Nyow, N. X.; & **Chua, Hui Na**. (2019). Detecting fake news with tweets' properties. *2019 IEEE Conference on Application, Information and Network Security (AINS)*. doi: 10.1109/AINS47559.2019.8968706

Ong, S. H.; & **Low, Yeh Ching**. (2019). On Kempton's generalization of the negative binomial distribution. *Malaysian Journal of Science*, 38(2), 67–78. doi: 10.22452/mjs.vol38no2.5

Ong, S. H.; Toh, K. K.; & **Low, Yeh Ching**. (2019). The non-central negative binomial distribution: Further properties and applications. *Communications in Statistics—Theory and Methods*. doi: 10.1080/03610926.2019.1634817

Rajan, A.; Kuang, Y. C.; Ooi, M. P. L.; & **Demidenko, Serge**. (2019). Measurement uncertainty evaluation: Could it help to improve engineering design? *IEEE Instrumentation & Measurement Magazine*, 22(2), 27–32. doi: 10.1109/MIM.2019.8674631

Safa, N. S.; Maple, C.; Furnell, S.; Furnell, S.; Azad, M. A.; Perera, C.; **Dabbagh, Mohammad**; & Sookhak, M. (2019). Deterrence and prevention-based model to mitigate information security insider threats in organisations. *Future Generation Computer Systems*, 97, 587–597. doi: 10.1016/j.future.2019.03.024

Sander, T.; & **Teh, Phoeey Lee**. (2019). Is social media changing the awareness of individuals? *Proceedings of the International Conference on New Trends in Social Sciences*. doi: 10.33422/ntss.2019.08.488

Sander, T.; & **Teh, Phoeey Lee**. (2019). My employer's prestige, my prestige. In Á. Roch, H. Adeli, L. Reis, & S. Costanzo (Eds.), *New Knowledge in Information Systems and Technologies. WorldCIST'19 2019. Advances in Intelligent Systems and Computing* (Vol. 930, 3–11). Springer. doi: 10.1007/978-3-030-16181-1_1

Sim, Tze Ying; & **Lau, Sian Lun**. (2019). Online tools to support novice programming: A systematic review. *2018 IEEE Conference on e-Learning, e-Management and e-Services (IC3e)*. doi: 10.1109/IC3e.2018.8632649

Sim, W. L.; **Chua, Hui Na**; & **Tahir, Mohammad**. (2019). Blockchain for identity management: The implications to personal data protection. *2019 IEEE Conference on Application, Information and Network Security (AINS)*. doi: 10.1109/AINS47559.2019.8968708

Sim, Z. H.; Chook, Y.; Hakim, M. A.; **Lim, Woan Ning**; & **Yap, Kian Meng**. (2019). Design of virtual reality simulation-based safety training workshop. *2019 IEEE International Symposium on Haptic, Audio and Visual Environments and Games (HAVE)*. doi: 10.1109/HAVE.2019.8921366

Soo, Q. P.; Lim, S. Y.; Lim, D. W. G.; Rusli, N.; Chong, K. H.; **Yap, Kian Meng**; & **Lau, Sian Lun**. (2019). Measurement of an uneven terrain model for potential applications in caves. *2019 IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE)*. doi: 10.1109/APACE47377.2019.9021041

Tahir, Mohammad; Ashraf, Q. M.; & **Dabbagh, Mohammad**. (2019). Towards enabling autonomic computing in IoT ecosystem. *2019 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCOM/CyberSciTech)*. doi: 10.1109/DASC/PiCom/CBDCOM/CyberSciTech.2019.00122

Tiong, L. C. O.; **Lee, Yun Li**; & Teoh, A. B. J. (2019). Periocular recognition in the wild: Implementation of RGB-OCLBCP dual-stream CNN. *Applied Sciences*, 9(13), 2709. doi: 10.3390/app9132709

Tiong, L. C. O.; Teoh, A. B. J.; & **Lee, Yun Li**. (2019). Periocular recognition in the wild with orthogonal combination of local binary coded pattern in dual-stream convolutional neural network. *2019 International Conference on Biometrics*. doi: 10.1109/ICB45273.2019.8987278

Tsekleves, E.; **Yong, Min Hooi**; **Lee, Clarissa Ai Ling**; Giga, S.; **Hwang, Jung Shan**; & **Lau, Sian Lun**. (2019). Rethinking how healthcare is conceptualised and delivered through speculative design in the UK and Malaysia: A comparative study. *The Design Journal*, 22 (Sup. 1), 429–444. doi: 10.1080/14606925.2019.1595430

Usama, M.; Qadir, J.; Raza, A.; Arif, H.; **Yau, Alvin Kok Lim**; Elkhatib, Y.; Hussain, A.; & Al-Fuqaha, A. (2019). Unsupervised machine learning for networking: Techniques, applications and research challenges. *IEEE Access*, 7, 65579–65615. doi: 10.1109/ACCESS.2019.2916648

Wang, S.; Yeoh, W.; Richards, G.; **Wong, Siew Fan**; & Chang, Y. (2019). Harnessing business analytics value through organizational absorptive capacity. *Information & Management*, 56(7), 103152. doi: 10.1016/j.im.2019.02.007

Wong, H. J.; Kuan, W. K.; Chan, A. J. Y.; Omamalin, S. J.; **Yap, Kian Meng**; Ding, A. Y. L.; Soh, M. L.; & Abdul Rahim, A. I. (2019). Deformation and friction: 3D haptic asset enhancement in e-commerce for the visually impaired. In H. Kajimoto, D. Lee, S. Y. Kim, M. Konyo, & K. U. Kyung (Eds.), *Haptic Interaction. AsiaHaptics 2018. Lecture Notes in Electrical Engineering* (Vol. 535, pp. 256–261). Springer. doi: 10.1007/978-981-13-3194-7_58

Wong, H. J.; & **Yap, Kian Meng**. (2019). Pseudorandom proxy testing of internal haptic perception in touch styluses intended for the visually impaired. *2019 IEEE International Symposium on Haptic, Audio and Visual Environments and Games (HAVE)*. doi: 10.1109/HAVE.2019.8921084

Wu, C.; Xue, G.; Li, J.; **Yau, Alvin Kok Lim**; & Qadir, J. (2019). Computational intelligence for Internet of Things in the Big Data era (Part I) [Guest Editorial]. *IEEE Computational Intelligence Magazine*, 14(4), 11–88. doi: 10.1109/MCI.2019.2937607

Yap, Kian Meng; Ding, A. Y. L.; Yeoh, H. Y.; Soh, M. L.; Tee, M. W.; Ong, K.; Kuan, W. K.; & Abdul Rahim, A. I. (2019). 3D haptic-audio enabled online shopping: Development and challenges of a new website for the visually impaired. In K. Kim & H. Kim (Eds.), *Mobile and Wireless Technology 2018. ICMWT 2018. Lecture Notes in Electrical Engineering* (Vol. 513, pp. 143–153), Springer. doi: 10.1007/978-981-13-1059-1_14.

Yap, Kian Meng; & El Saddik, A. (2019). Welcome message from the Chairs. *2019 IEEE International Symposium on Haptic, Audio and Visual Environments and Games (HAVE)*, 4. doi: 10.1109/HAVE47659.2019

Yau, Alvin Kok Lim; Chieng, D.; Qadir, J.; & Ni, Q. (2019). Towards enhancement of communication systems, networks and applications for smart environment. *Journal of Ambient Intelligence and Humanized Computing*, 10, 1271–1273. doi: 10.1007/s12652-018-1060-4

Yau, Alvin Kok Lim; Syed, A. R.; Hashim, W.; Qadir, J.; Wu, C.; & Hassan, N. (2019). Maritime networking: Bringing internet to the sea. *IEEE Access*, 7, 48236–48255. doi: 10.1109/ACCESS.2019.2909921

Yong, S. T.; Gates, P.; Chan, A.; **Lee, Chien Sing**; Matthews, R.; & Tiong, K. M. (2019). Exploring the feasibility of computer games in mathematics education. *2019 IEEE International Symposium on Haptic, Audio and Visual Environments and Games (HAVE)*. doi: 10.1109/HAVE.2019.8921018

Zainol, Z.; Nohuddin, P. N. E.; Kamarudin, N. D.; **Lee, Angela Siew Hoong**; & Wani, S. (2019). Relationship analysis of formal and experiential learning in military survival skills using text mining. *Defence S and T Technical Bulletin*, 12, 267–280. <http://www.stride.gov.my/v2/ms/info/penerbitan/buletin-teknikal-s-t-pertahanan/294-buletin-teknikal-s-t-pertahanan-jilid-12-bil-2-2019>

Ziwei, B. Y.; & **Chua, Hui Na**. (2019). An application for classifying depression in tweets. In *ICCBD 2019: Proceedings of the 2nd International Conference on Computing and Big Data* (pp. 37–41). Association for Computing Machinery. doi: 10.1145/3366650.3366653

Department of Psychology

Ameruddin, N. F. L.; **Berezina, Elizaveta**; & **Yap, Grace Chin Choo**. (2019). Preparing emerging adults for their career by fostering self-efficacy and emotional intelligence in tertiary education. In R. M. Rasdi, M. K. Omar, A. B. Razali, L. Ismail, A. Abdullah, M. Yassin, & S. Othman (Eds.), *Proceedings of the 5th International Conference on Educational Research and Practice* (pp. 594–602). Faculty of Educational Studies, Universiti Putra Malaysia. ISBN: 978-967-960-453-5

Atherton, G.; Sebanz, N.; & **Cross, Liam**. (2019). Imagine all the synchrony: The effects of actual and imagined synchronous walking on attitudes towards marginalised groups. *PLoS ONE*, 14(7), e0220264. doi: 10.1371/journal.pone.0220264

Chin, W. C.; **Wu, Shin Ling**; & Tan, S. A. (2019). Problem-focused coping and depression among adolescents: Mediating effect of self-esteem. *Current Psychology*. doi: 10.1007/s12144-019-00522-4

Clio, B.; Othman, E.; Tan, J. C.; Gee, B.; Byrne, R. E.; Hodgekins, J.; Michelson, D.; **Ng, Alvin Lai Oon; Marsh, Nigel V.**; Coker, S.; & Fowler, D. (2019). Assessing social recovery of vulnerable youth in global mental health settings: A pilot study of clinical research tools in Malaysia. *BMC Psychiatry, 19*, 188. doi: 10.1186/s12888-019-2164-x

Cross, Liam; Turgeon, M.; & Atherton, G. (2019). Moving with the in-crowd: Cooperation and interpersonal entrainment in in- vs. out- groups. *Current Psychology*. doi: 10.1007/s12144-019-00283-0

Gill, C. M. Hew D.; & Berezina, Elizaveta. (2019). Achieving SDG 4 Quality Education in Malaysia: What are the lessons from international large scale assessments? In R. M. Rasdi, M. K. Omar, A. B. Razali, L. Ismail, A. Abdullah, M. Yassin, & S. Othman (Eds.), *Proceedings of the 5th International Conference on Educational Research and Practice* (pp. 362–372). Faculty of Educational Studies, Universiti Putra Malaysia. ISBN: 978-967-960-453-5

Gill, C. M. Hew D.; & Berezina, Elizaveta. (2019). Modeling personality structure using semantic relationships: Is the HEXACO honesty-humility a distinct trait? *Psychology in Russia: State of the Art, 12*(1), 89–103. doi: 10.11621/pir.2019.0107

Hidayah, A. N. A.; Aidi, A.; **Lin, Mei-Hua**; & Asma, P. (2019). Global trend on incivility research. *Indian Journal of Public Health Research & Development, 10*(7), 1229–1234. doi: 10.5958/0976-5506.2019.01754.6

Hunter, J. A.; Scarf, D.; Trent, J.; Hayhurst, J.; **Yong, Min Hooi**; Chan, J.; Huang, M.; Fahey, K.; Ruffman, T.; Platow, M. J.; & Stringer, M. (2019). Perceived control and intergroup discrimination. *Current Research in Social Psychology, 27*, 9–20. https://crisp.org.uiowa.edu/sites/crisp.org.uiowa.edu/files/2020-04/crisp_27.2.pdf

Khalid, H. M.; **Yap, Kian Meng**; & **Lin, Mei-Hua**. (2019). Modelling risk attitude and situation awareness in tsunami disaster; implications for design of drone surveillance and early warning system. *2019 IEEE 6th Asian Conference on Defence Technology (ACDT)*. doi: 10.1109/ACDT47198.2019.9072924

Klein, H. A.; **Lin, Mei-Hua**; Miller, N. L.; Militello, L. G.; Lyons, J. B.; & Finkeldey, J. G. (2019). Trust across culture and context. *Journal of Cognitive Engineering and Decision Making*, 13(1), 10–29. doi: 10.1177/1555343418810936

Lau, X. C.; Wong, Y. L.; Wong, J. E.; Koh, D.; Sedek, R.; Jamil, A. T.; **Ng, Alvin Lai Oon**; Hazizi, A. S.; Ruzita, A. T.; & Poh, B. K. (2019). Development and validation of a physical activity educational module for overweight and obese adolescents: CER GAS programme. *International Journal of Environmental Research and Public Health*, 16(9), 1506. doi: 10.3390/ijerph16091506

Lee, Michelle Chin Chin; Idris, M. A.; & Tuckey, M. (2019). Supervisory coaching and performance feedback as mediators of the relationships between leadership styles, work engagement, and turnover intention. *Human Resource Development International*, 22(3), 257–282. doi: 10.1080/13678868.2018.1530170

Lee, Michelle Chin Chin; & Lunn, J. (2019). Testing the relevance, proximal, and distal effects of psychosocial safety climate and social support on job resources: A context-based approach. *Cogent Psychology*, 6(1), 1685929. doi: 10.1080/23311908.2019.1685929

Lin, Mei-Hua; **Lee, Michelle Chin Chin**; Soh, M. L.; Cheng, D. M. L.; & Ho, Y. M. (2019). *A multilevel comparisons on the antecedents of trust among team members and work outcomes* [Technical Report; FA2386-15-1-4085 (AFRL-AFOSR-JP-TR-2019-0004)]. Air Force Research Laboratory. <https://apps.dtic.mil/sti/pdfs/AD1085921.pdf>

Marsh, Nigel V. (2019). Cognitive functioning following traumatic brain injury: The first 5 years. *NeuroRehabilitation*, 43(4), 377–386. doi: 10.3233/NRE-182457

Poh, B. K.; Lee, S. T.; Yeo, G. S.; Tang, K. C.; Afifah, A. R. N.; Hanisa, A. S.; Parikh, P.; Wong, J. E.; **Ng, Alvin Lai Oon**; & on behalf of the SEANUTS Study Group. (2019). Low socioeconomic status and severe obesity are linked to poor cognitive performance in Malaysian children. *BMC Public Health*, 19, 541. doi: 10.1186/s12889-019-6856-4

Tham, D. S. Y.; **Woo, Pei Jun**; & Bremner, J. G. (2019). Development of the other-race effect in Malaysian-Chinese infants. *Developmental Psychology*, 61(1), 107–115. doi: 10.1002/dev.21783

Tsekleves, E.; **Yong, Min Hooi**; **Lee, Clarissa Ai Ling**; Giga, S.; **Hwang, Jung Shan**; & **Lau, Sian Lun**. (2019). Rethinking how healthcare is conceptualised and delivered through speculative design in the UK and Malaysia: A comparative study. *The Design Journal*, 22 (Sup. 1), 429–444. doi: 10.1080/14606925.2019.1595430

Walker, Peter; & Parameswaran, C. R. (2019). Cross-sensory correspondences in language: Vowel sounds can symbolize the felt heaviness of objects. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 45(2), 246–252. doi: 10.1037/xlm0000583

Yap, R. W. K.; **Lin, Mei-Hua**; Shidoji, Y.; & Yap, W. S. (2019). Association and gene-environment interaction effect of VEGFR-2 gene polymorphism with mental health on metabolic risk factors of cardiovascular disease in Chinese Malaysian female adults. *Malaysian Journal of Biochemistry and Molecular Biology*, 22(2), 1–5. <https://msbmb2010.wixsite.com/mjmbmb/august-2019>

Yap, R. W. K.; **Lin, Mei-Hua**; Shidoji, Y.; & Yap, W. S. (2019). Association of stress, mental health, and VEGFR-2 gene polymorphisms with cardiometabolic risk in Chinese Malaysian adults. *Nutrients*, 11(5), 1140. doi: 10.3390/nu11051140

Yong, Elaine. (2019). Impact of student-instructor relationships on affective learning and test anxiety perceptions. In *ICEMT 2019: Proceedings of the 2019 3rd International Conference on Education and Multimedia Technology* (pp. 160–164). Association for Computing Machinery. doi: 10.1145/3345120.3345133

Research Centre for Carbon Dioxide Capture and Utilisation

Abdullah, A.; Abd Gani, S. S.; Yap, T. Y. H.; Haiyee, Z. A.; Zaidan, U. H.; **Kassim, Mohd Azlan**; & Halmi, M. I. E. (2019). Lipase-catalyzed synthesis of red pitaya (*Hylocereus polyrhizus*) seed oil esters for cosmeceutical applications: process optimization using response surface methodology. *RSC Advances*, 10, 5599–5609. doi: 10.1039/C8RA09418G

Abdul Samat, N. F. N.; Yusoff, R.; **Aroua, Mohamed Kheireddine**; Ramalingam, A.; & **Kassim, Mohd Azlan**. (2019). Solubility of CO₂ in aqueous 2-amino-1, 3-propanediol (Serinol) at elevated pressures. *Journal of Molecular Liquids*, 277, 207–216. doi: 10.1016/j.molliq.2018.12.102

Ahmad, N. A.; Jumbri, K.; Ramli, A.; Ghani, N. A.; Ahmad, H.; & **Kassim, Mohd Azlan**. (2019). Synthesis, characterisation and antioxidant properties of ferulate-based protic ionic liquids: Experimental and modelling approaches. *Journal of Molecular Liquids*, 278, 309–319. doi: 10.1016/j.molliq.2019.01.048

Aichour, A.; Zaghouane-Boudiaf, H.; Mohamed Zuki, F.; **Aroua, Mohamed Kheireddine**; & Ibbora, C. V. (2019). Low-cost, biodegradable and highly effective adsorbents for batch and column fixed bed adsorption processes of methylene blue. *Journal of Environmental Chemical Engineering*, 7(5), 103409. doi: 10.1016/j.jece.2019.103409

Baharuddin, N. H.; Nik Sulaiman, N. M.; **Aroua, Mohamed Kheireddine**; Mohd Nawawi, N. G.; Kassim, M. A.; Othman, M. R.; & Dahlan, I. (2019). Starch as novel water soluble biopolymer in removal mixtures heavy metal ions via polymer enhanced ultrafiltration. *AIP Conference Proceedings*, 2124, 030012. doi: 10.1063/1.5117134

Basri, M.; Abdul Rahman, N. F.; **Kassim, Mohd Azlan**; Raja Shahrizzaman, R. M. H.; & Mokles, M. S. N. (2019). Lipase-catalyzed production and purification of palm esters using stirred tank reactors (STR). *Journal of Oleo Science*, 68(4), 329–337. doi: 10.5650/jos.ess18197

Gafri, H. F.; Zuki, F. M.; **Aroua, Mohamed Kheireddine**; & Bello, M. M. (2019). Enhancing the anti-biofouling properties of polyethersulfone membrane using chitosan-powder activated carbon composite. *Journal of Polymers and the Environment*, 27, 2156–2166. doi: 10.1007/s10924-019-01505-z

Gafri, H. F. S.; Zuki, F. M.; **Aroua, Mohamed Kheireddine**; & Hashim, N. A. (2019). Mechanism of bacterial adhesion on ultrafiltration membrane modified by natural antimicrobial polymers (chitosan) and combination with activated carbon (PAC). *Reviews in Chemical Engineering*, 35(3), 421–443. doi: 10.1515/revce-2017-0006

Halilu, A.; Hayyan, M.; **Aroua, Mohamed Kheireddine**; Yusoff, R.; & Hizaddin, H. F. (2019). In situ electrosynthesis of peroxydicarbonate anion in ionic liquid media using carbon dioxide/superoxide system. *ACS Applied Materials & Interfaces*, 11(29), 25928–25939. doi: 10.1021/acsami.9b05962

Hussin, Farihausnah; & Aroua, Mohamed Kheireddine. (2019). Recent development in the electrochemical conversion of carbon dioxide: Short review. *AIP Conference Proceedings*, 2124, 030017. doi: 10.1063/1.5117139

Hussin, Farihausnah; Aroua, Mohamed Kheireddine; & Szlachta, M. (2019). Combined solar electrocoagulation and adsorption processes for Pb(II) removal from aqueous solution. *Chemical Engineering and Processing—Process Intensification*, 143, 107619. doi: 10.1016/j.cep.2019.107619

Kong, P. S.; Pérès, Y.; Wan Daud, W. M. A.; Cognet, P.; & **Aroua, Mohamed Kheireddine.** (2019). Esterification of glycerol with oleic acid over hydrophobic zirconia-silica acid catalyst and commercial acid catalyst: Optimization and influence of catalyst acidity. *Frontiers in Chemistry*, 7, 205. doi: 10.3389/fchem.2019.00205

Lee, C. S.; **Aroua, Mohamed Kheireddine;** Wan Daud, W. A.; Cognet, P.; Pérès, Y.; & Ajeel, M. A. (2019). Selective electrochemical conversion of glycerol to glycolic acid and lactic acid on a mixed carbon-black activated carbon electrode in a single compartment electrochemical cell. *Frontiers in Chemistry*, 7, 110. doi: 10.3389/fchem.2019.00110

Ng, A. K. L.; Abnisa, F.; Wan Daud, W. M. A.; & **Aroua, Mohamed Kheireddine.** (2019). Atmospheric hydrodeoxygenation of phenol as pyrolytic-oil model compound for hydrocarbon production using Ag/TiO₂ catalyst. *Asia-Pacific Journal of Chemical Engineering*, 14(2), e2293. doi: 10.1002/apj.2293

Ng, A. K. L.; Abnisa, F.; Wan Daud, W. M. A.; & **Aroua, Mohamed Kheireddine**. (2019). Synergistic interaction of metal–acid sites for phenol hydrodeoxygenation over bifunctional Ag/TiO₂ nanocatalyst. *Chinese Journal of Chemical Engineering*, 27(2), 349–361. doi: 10.1016/j.cjche.2018.08.028

Ng, A. K. L.; Abnisa, F.; Wan Daud, W. M. A.; & **Aroua, Mohamed Kheireddine**. (2019). Temperature-programmed reduction of silver(I) oxide using a titania-supported silver catalyst under a H₂ atmosphere. *Journal of the Chinese Chemical Society*, 66(11), 1443–1455. doi: 10.1002/jccs.201800278

Pui, W. K.; Yusoff, R.; & **Aroua, Mohamed Kheireddine**. (2019). A review on activated carbon adsorption for volatile organic compounds (VOCs). *Reviews in Chemical Engineering*, 35(5), 649–668. doi: 10.1515/revce-2017-0057

Research Centre for Crystalline Materials

Ahmad, J.; How, F. N. F.; Abdul Halim, S. N.; Jotani, M. M.; **Lee, See Mun;** & **Tiekink, Edward R. T.** (2019). A new structural motif for cadmium dithiocarbamates: Crystal structures and Hirshfeld surface analyses of homoleptic zinc and cadmium morpholine dithiocarbamates. *Zeitschrift für Kristallographie—Crystalline Materials*, 234(5), 341–349. doi: 10.1515/zkri-2018-2141

Al-Dies, A. A. M.; Asiri, A. M.; Khan, S. A.; & **Tiekink, Edward R. T.** (2019). Crystal structure of 4,4',5,5'-tetraphenyl-2,2'-di-*p*-tolyl-2'*H*-1,2'-biimidazole, C₄₄H₃₄N₄. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(3), 465–467. doi: 10.1515/ncrs-2018-0473

Al-Dies, A. A. M.; Asiri, A. M.; Khan, S. A.; & **Tiekink, Edward R. T.** (2019). Crystal structure of 8,8'-di-*p*-tolyl-8'*H*-7,8'-biacenaphtho[1,2-*d*]imidazole, C₄₀H₂₆N₄. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(3), 457–459. doi: 10.1515/ncrs-2018-0471

Al-Ghulikah, H. A.; Ghabbour, H. A.; **Tiekink, Edward R. T.**; & El-Emam, A. A. (2019). Crystal structure of 4-bromobenzyl (*Z*)-*N*-(adamantan-1-yl)morpholine-4-carbothioimide, C₂₂H₂₉BrN₂OS. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 1001–1003. doi: 10.1515/ncrs-2019-0216

Al-Wahaibi, L. H.; Al-Shaalan, N. H.; Ghabbour, H. A.; **Tiekink, Edward R. T.**; & El-Emam, A. A. (2019). Crystal structure of 3,5-bis(trifluoromethyl)benzyl (*Z*)-*N'*-(adamantan-1-yl)-4-phenylpiperazine-1-carbothioimide, C₃₀H₃₃F₆N₃S. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 1009–1012. doi: 10.1515/ncrs-2019-0220

Amin, N. A. M.; Hussien, R. S. D.; **Lee, See Mun**; Sim, K. S.; & Navanesan, S. (2019). Synthesis, structural characterization, cytotoxicity and encapsulation studies of *N,N'*-(1,2-dicyano-1,2-vinylene)-bis(4-hydroxysalicylideneaminato) di(*p*-chlorobenzyl)tin as potential anticancer drug. *Main Group Metal Chemistry*, 42(1), 94–101. doi: 10.1515/mgmc-2019-0010

Asiri, A. M.; Alzahrani, K. A. H.; Faidallah, H. M.; Alamry, K. A.; Jotani, M. M.; & **Tiekink, Edward R. T.** (2019). Co-crystallization of a neutral molecule and its zwitterionic tautomer: Structure and Hirshfeld surface analysis of 5-methyl-4-(5-methyl-1*H*-pyrazol-3-yl)-2-phenyl-2,3-dihydro-1*H*-pyrazol-3-one 5-methyl-4-(5-methyl-1*H*-pyrazol-2-ium-3-yl)-3-oxo-2-phenyl-2,3-dihydro-1*H*-pyrazol-1-ide monohydrate. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 565–570. doi: 10.1107/S2056989019004389

Baddeley, T. C.; de Souza, M. V. N.; Wardell, J. L.; Jotani, M. M.; & **Tiekink, Edward R. T.** (2019). *N'*-(1,3-Benzothiazol-2-yl)benzenesulfonylhydrazide: Crystal structure, Hirshfeld surface analysis and computational chemistry. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 516–523. doi: 10.1107/S2056989019003980

Baig, S.; **Azizan, Ainnul Hamidah Syhadah**; Raghavendran, H. R. B.; Natarajan, E.; Naveen, S.; Murali, M. R.; Nam, H. Y.; & Kamarul, T. (2019). Effect of chitosan nanoparticle-loaded *Thymus serpyllum* on hydrogen peroxide-induced bone marrow stromal cell damage. *Stem Cells International*, 2019, 5142518. doi: 10.1155/2019/5142518

Baul, T. S. B.; Manne, R.; & **Tiekink, Edward R. T.** (2019). Mono- and di-anionic coordination modes of arylazosalicylates in their bis(η^5 -cyclopentadienyl)titanium(IV) complexes: Syntheses and crystal structures. *Inorganica Chimica Acta*, 484, 469–480. doi: 10.1016/j.ica.2018.09.076

Caracelli, I.; Zukerman-Schpector, J.; Schwab, R. S.; Da Silva, E. M.; Jotani, M. M.; & **Tiekink, Edward R. T.** (2019). 2-Methyl-4-(4-nitrophenyl)but-3-yn-2-ol: Crystal structure, Hirshfeld surface analysis and computational chemistry study. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 1232–1238. doi: 10.1107/S2056989019010284

Caracelli, I.; Zukerman-Schpector, J.; Traesel, H. J.; Olivato, P. R.; Jotani, M. M.; & **Tiekink, Edward R. T.** (2019). 2-[(4-Bromophenyl)sulfanyl]-2-methoxy-1-phenylethan-1-one: Crystal structure, Hirshfeld surface analysis and computational chemistry. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 816–822. doi: 10.1107/S2056989019006765

Chettri, S.; Brahman, D.; Sinha, B.; Jotani, M. M.; & **Tiekink, Edward R. T.** (2019). Bis[2-(4,5-diphenyl-1H-imidazol-2-yl)-4-nitrophenolato] copper(II) dihydrate: Crystal structure and Hirshfeld surface analysis. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 1664–1671. doi: 10.1107/s2056989019013720

Haezam, F. N.; Awang, N.; Kamaludin, N. F.; Jotani, M. M.; & **Tiekink, Edward R. T.** (2019). (N,N-Diisopropyldithiocarbamato)triphenyltin(IV): Crystal structure, Hirshfeld surface analysis and computational study. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 1479–1485. doi: 10.1107/S2056989019012490

Henderson, W.; Okpareke, O. C.; **Azizan, Ainnul Hamidah Syhadah;** & **Tiekink, Edward R. T.** (2019). [Dicyclohexyl(sulfanylidene)- λ^5 -phosphanyl] methanol. *MolBank*, 2019(3), M1069. doi: 10.3390/M1069

Henderson, W.; Thomas, J. C.; Okpareke, O. C.; & **Tiekink, Edward R. T.** (2019). Synthesis, structural and mass spectrometric investigations of pyridinium bis(thiosalicylato)mercurate(II). *Inorganica Chimica Acta*, 490, 104–111. doi: 10.1016/j.ica.2019.03.002

Ishak, N. N. M.; Jamsari, J.; Ismail, A. Z.; Tahir, M. I. M.; **Tiekink, Edward R. T.; Veerakumarasivam, Abhi;** & Ravoo, T. B. S. A. (2019). Synthesis, characterisation and biological studies of mixed-ligand nickel (II) complexes containing imidazole derivatives and thiosemicarbazide Schiff bases. *Journal of Molecular Structure*, 1198, 126888. doi: 10.1016/j.molstruc.2019.126888

Jotani, M. M.; **Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T.** (2019). 1-Chloro-4-[2-(4-chlorophenyl)ethyl]benzene and its bromo analogue: Crystal structure, Hirshfeld surface analysis and computational chemistry. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 624–631. doi: 10.1107/S2056989019004742

Jotani, M. M.; Wardell, J. L.; & **Tiekink, Edward R. T.** (2019). Supramolecular association in the triclinic ($Z'=1$) and monoclinic ($Z'=4$) polymorphs of 4-(4-acetylphenyl)piperazin-1-ium 2-amino-4-nitrobenzoate. *Zeitschrift für Kristallographie—Crystalline Materials*, 234(1), 43–57. doi: 10.1515/zkri-2018-2101

Junaid, A.; Lim, F. P. L.; **Tiekink, Edward R. T.**; & Dolzhenko, A. V. (2019). New one-pot synthesis of 1,3,5-triazines: Three-component condensation, Dimroth rearrangement, and dehydrogenative aromatization. *ACS Combinatorial Science*, 21(7), 548–555. doi: 10.1021/acscombsci.9b00079

Junaid, A.; **Tan, Yee Seng; Tiekink, Edward R. T.**; & Dolzhenko, A. V. (2019). A one-pot synthesis of $N^2,6$ -diaryl-5,6-dihydro-1,3,5-triazine-2,4-diamines and systematic evaluation of their ability to host ethanol in crystals. *RSC Advances*, 9, 37660–37667. doi: 10.1039/C9RA08795H

Lee, See Mun; Azizan, Ainnul Hamidah Syahadah; Lo, Kong Mun; Tan, Sang Loon; & Tiekink, Edward R. T. (2019). 2-[[Bis(propan-2-yl)carbamothioyl]sulfanyl] acetic acid. *MolBank*, 2019(4), M1082. doi: 10.3390/M1082

Lee, See Mun; Lo, Kong Mun; Heard, Peter J.; & Tiekink, Edward R. T. (2019). Crystal structure of fac-tricarbonyl-morpholine- κ N-(morpholinocarbamodithioato- κ^2 S,S')rhenium(I), $C_{12}H_{17}N_2O_5ReS_2$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 1129–1132. doi: 10.1515/ncrs-2019-0495

Lee, See Mun; Lo, Kong Mun; Heard, Peter J.; & Tiekink, Edward R. T. (2019). Redetermination of the crystal structure of bis(μ_2 -diethylthiocarbamato- $\kappa^3S,S':S$; $\kappa^3S:S:S'$)-hexacarbonyl-di-rhenium(I), $C_{16}H_{20}N_2O_6Re_2S_4$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 719–721. doi: 10.1515/ncrs-2019-0070

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of (2,2'-bipyridyl)bis(4-bromobenzyl)dibromidotin(IV), $C_{24}H_{20}Br_4N_2Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(6), 1317–1319. doi: 10.1515/ncrs-2019-0507

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of (2,2'-bipyridyl)bis(4-chlorobenzyl)dichloridotin(IV), $C_{24}H_{20}Cl_4N_2Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(6), 1321–1323. doi: 10.1515/ncrs-2019-0508

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of (2-([1,1-bis(hydroxymethyl)-2-oxyethyl]iminomethyl)-5-(*n*-decyl)phenolato)-dimethyl-tin(IV), $C_{23}H_{39}NO_5Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(6), 1337–1340. doi: 10.1515/ncrs-2019-0522

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of 2-[(1E)-{[1,3-dihydroxy-2-(hydroxymethyl)propan-2-yl]iminium}methyl]-5-(dodecyloxy)benzen-1-olate, $C_{23}H_{39}NO_5$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 101–103. doi: 10.1515/ncrs-2019-0523

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of 4-chloro-*N'*-[(1*E*)-(3-ethoxy-2-hydroxyphenyl)methylidene]benzohydrazide - a $Z' = 3$ structure, $C_{16}H_{15}ClN_2O_3$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(6), 1341–1344. doi: 10.1515/ncrs-2019-0528

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of (4-chloro-*N*-[(2-oxido-5-chlorophenyl)methylidene] benzene-carbohydrazonato- κ^3N,O,O')bis(2-fluorobenzyl)tin(IV), $C_{28}H_{20}Cl_2F_2N_2O_2Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 151–153. doi: 10.1515/ncrs-2019-0550

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of (4-fluorobenzyl- κC)(bis(2-hydroxyethyl) carbamodithioato- κ^2S,S')(2,2'-imino-diethanolato- κ^3N,O,O')tin(IV), $C_{16}H_{25}FN_2O_4S_2Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(2), 403–405. doi: 10.1515/ncrs-2019-0711

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of aqua-2,2',2''-(((nitriilo- κN -tris(ethane-2,1-diyl))tris(azanylylidene- κ^3N',N'',N'''))tris(methanylylidene))tris(4-chlorophenolato- κ^3O,O',O'') neodymium(III), $C_{27}H_{26}Cl_3N_4NdO_4$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 765–767. doi: 10.1515/ncrs-2019-0095

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of benzylbis(1,3-diphenylpropane-1,3-dionato- κ^2O,O')chloridotin(IV), $C_{37}H_{29}ClO_4Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 915–917. doi: 10.1515/ncrs-2019-0143

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of benzyl-chlorido-(4-chloro-*N*-[(2-oxidophenyl)methylidene]benzenecarbohydrazonato)-methanol-tin(IV), $C_{22}H_{20}Cl_2N_2O_3Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 121–124. doi: 10.1515/ncrs-2019-0530

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of benzyltrichloridobis(1*H*-pyrazole- κ^2N)tin(IV), $Cl_3Hl_5Cl_3N_4Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 821–822. doi: 10.1515/ncrs-2019-0129

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of bis(di-*n*-butylammonium) tetrachloridodiphenylstannate(IV), $C_{28}H_{50}C_{14}N_2Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 889–891. doi: 10.1515/ncrs-2019-0107

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of bis[(μ_3 -oxido)-(μ_2 -(*N,N*-diisopropylthiocarbamoylthio)acetato- κ^2O,O')-((*N,N*-diisopropylthiocarbamoylthio)acetato- κO)-bis(di-4-methylbenzyl-tin(IV))], $C_{100}H_{136}N_4O_{10}S_8Sn_4$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 943–946. doi: 10.1515/ncrs-2019-0161

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of bromido-dimethyl-4-tolyl-(triphenylphosphine oxide)tin(IV), $C_{27}H_{28}BrOPSn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 163–165. doi: 10.1515/ncrs-2019-0553

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of bromido-tri(4-chlorophenyl- $\kappa^1\text{C}$)-(ethanol- $\kappa^1\text{O}$)tin(IV)—4,4'-dimethyl-2,2'-bipyridine (2/1), $\text{C}_{52}\text{H}_{48}\text{Br}_2\text{C}_{16}\text{N}_2\text{O}_2\text{Sn}_2$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 143–145. doi: 10.1515/ncrs-2019-0542

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of chlorido-4-fluorobenzyl-bis(2-methylquinolin-8-olato- $\kappa^2\text{N},\text{O}$)tin(IV), $\text{C}_{27}\text{H}_{22}\text{ClFN}_2\text{O}_2\text{Sn}$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 823–825. doi: 10.1515/ncrs-2019-0130

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of chlorido-diphenyl-(isopropyl(propyl)carbamodithioato- $\kappa^2\text{S},\text{S}'$)tin(IV), $\text{C}_{19}\text{H}_{24}\text{ClNS}_2\text{Sn}$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 211–214. doi: 10.1515/ncrs-2019-0578

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of (dibenzyl sulphoxide- κO)bis(2-chlorobenzyl- $\kappa^1\text{C}$)dichloridotin(IV), $\text{C}_{28}\text{H}_{26}\text{C}_{14}\text{OSSn}$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 787–789. doi: 10.1515/ncrs-2019-0113

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of (dibenzyl sulphoxide- κO)dibromido-bis(4-bromobenzyl- $\kappa^1\text{C}$)tin(IV), $\text{C}_{28}\text{H}_{26}\text{Br}_4\text{OSSn}$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 139–141. doi: 10.1515/ncrs-2019-0541

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of dibromidobis(4-bromobenzyl)tin(IV), $\text{C}_{14}\text{H}_{12}\text{Br}_4\text{Sn}$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 947–948. doi: 10.1515/ncrs-2019-0162

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Crystal structure of (*N-n*-butyl, *N*-methyl-dithiocarbamato- $\kappa^2 S, S'$)-chlorido-dimethyltin(IV), $C_8H_{18}ClNS_2Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(6), 1313–1315. doi: 10.1515/ncrs-2019-0502

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Redetermination of the crystal structure of *catena*-poly[[tribenzyltin(IV)]-(μ_2 -pyridine-4-carboxylato- $\kappa^2 N:O$)], $C_{27}H_{25}NO_2Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 835–837. doi: 10.1515/ncrs-2019-0146

Lee, See Mun; Lo, Kong Mun; & Tiekink, Edward R. T. (2019). Redetermination of the crystal structure of tetrakis(4-chlorobenzyl)tin(IV), $C_{28}H_{24}Cl_4Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 777–778. doi: 10.1515/ncrs-2019-0100

Lim, F. P. L.; Luna, G.; Tan, K. C.; **Tiekink, Edward R. T.**; & Dolzhenko, A. V. (2019). A synthesis of new 7-amino-substituted 4-aminopyrazolo[1,5-*a*][1,3,5]triazines via a selective three-component triazine ring annulation. *Tetrahedron*, 75(15), 2322–2329. doi: 10.1016/j.tet.2019.03.002

Lim, F. P. L.; Tan, K. C.; Luna, G.; **Tiekink, Edward R. T.**; & Dolzhenko, A. V. (2019). A new practical synthesis of 3-amino-substituted 5-aminopyrazoles and their tautomerism. *Tetrahedron*, 75(15), 2314–2321. doi: 10.1016/j.tet.2019.03.003

Lo, Kong Mun; Lee, See Mun; Heard, Peter J.; & Tiekink, Edward R. T. (2019). Crystal structure of hexacarbonyl-bis(μ_2 -*di-n*-propyldithiocarbamato- $\kappa^3 S, S':S; \kappa^3 S:S:S'$)-di-rhenium(I), $C_{20}H_{28}N_2O_6Re_2S_4$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 1125–1127. doi: 10.1515/ncrs-2019-0494

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of 4-phenylpiperazin-1-ium (4-phenylpiperazin-1-yl) carbothioylsulfanide, $[C_{10}H_{15}N_2][C_{11}H_{13}N_2S_2]$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(6), 1329–1331. doi: 10.1515/ncrs-2019-0512

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of 8-hydroxy-2-methylquinolin-1-ium chloride dihydrate, $C_{10}H_{14}ClNO_3$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 135–137. doi: 10.1515/ncrs-2019-0540

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of aqua-chlorido-(4-fluorobenzyl- κC)-(N'-(4-methoxy-2-oxidobenzylidene)-3-hydroxy-2-naphthohydrazidato- $\kappa^3 N, O, O'$)tin(IV), $C_{26}H_{22}ClFN_2O_5Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 155–157. doi: 10.1515/ncrs-2019-0551

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of bis(acetylacetonato- $\kappa^2 O, O'$)-(ethanolamine- $\kappa^2 N, O$)copper(II), $C_{14}H_{25}CuNO_5$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 207–209. doi: 10.1515/ncrs-2019-0577

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of bis{(N-[(5-chloro-2-oxidophenyl)methylidene]-2-hydroxybenzenecarbohydrazonato)-dioxo-molybdenum(VI)}(μ_2 -4,4'-bipyridine), $C_{38}H_{26}Cl_2Mo_2N_6O_{10}$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 189–191. doi: 10.1515/ncrs-2019-0566

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of catena-poly[dibenzyl-dichlorido-(μ_2 -[4,4'-bipyridine]1,1'-dioxide- $\kappa^2 O:O'$)tin(IV)], $C_{24}H_{22}Cl_2N_2O_2Sn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 117–119. doi: 10.1515/ncrs-2019-0529

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of *catena*-poly[tri(4-chlorophenyl)-(μ₂-hydroxido)tin(IV)] - 2-propanol (1/1), C₂₁H₂₁C₁₃O₂Sn. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 159–161. doi: 10.1515/ncrs-2019-0552

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of *catena*-{[tri-aqua-di-sodium bis(2-{[*n*-butyl(methyl) carbamothioyl]sulfanyl}acetate)]}_n, [C₁₆H₃₄N₂Na₂O₇S₄]_n. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 91–94. doi: 10.1515/ncrs-2019-0513

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of chlorido-dimethyl-(phenylpiperazine-1-carbodithioato-κ²S,S') tin(IV), C₁₃H₁₉ClN₂S₂Sn. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(6), 1309–1311. doi: 10.1515/ncrs-2019-0501

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of dichlorido-bis(4-methylphenyl-κC)-bis(triphenylarsine oxide-κO)tin(IV), C₅₀H₄₄As₂C₁₂O₂Sn. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 183–185. doi: 10.1515/ncrs-2019-0564

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of dichlorido-octamethyl-bis(μ₃-oxido)-bis(μ₂-2-(phenylamino)ethanolato-κ²O:O)tetratin(IV), C₂₄H₄₄C₁₂N₂O₄Sn₄. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 193–195. doi: 10.1515/ncrs-2019-0567

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of (dimethyl sulfoxide)-dioxido-[2-hydroxy-*N'*-(4-oxo-4-phenylbutan-2-ylidene)benzohydrazidato κ³N,O,O']molybdenum(VI), C₁₉H₂₀MoN₂O₆S. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 203–205. doi: 10.1515/ncrs-2019-0576

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of iodido-triphenyl-(triphenylphosphine oxide)tin(IV), $C_{36}H_{30}IOPSn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 179–181. doi: 10.1515/ncrs-2019-0563

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of *N*-methyl-*N*-phenyl(methylsulfanyl)carbothioamide, $C_9H_{11}NS_2$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(6), 1325–1327. doi: 10.1515/ncrs-2019-0511

Lo, Kong Mun; Lee, See Mun; & Tiekink, Edward R. T. (2019). Crystal structure of octa(4-chlorobenzyl)-dichlorido-bis(μ_2 -methanolato)-bis(μ_3 -oxo)-tetratin(IV), $C_{58}H_{54}Cl_{10}O_4Sn_4$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 175–177. doi: 10.1515/ncrs-2019-0562

Lo, Kong Mun; Lee, See Mun; Zaidi, N.; Hussen, R. S. D.; & Tiekink, Edward R. T. (2019). Crystal structure of catena-{di-aqua-sodium [*n*-butyl(methyl)carbamoithiyl]sulfanide} $_n$, $[C_6H_{16}NNaO_2S_2]_n$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(6), 1333–1335. doi: 10.1515/ncrs-2019-0514

Loo, K. Y.; Leong, K. H.; **Sivasothy, Yasodha**; Ibrahim, H.; & Awang, K. (2019). Molecular insight and mode of inhibition of α -glucosidase and α -amylase by pahangensin A from *Alpinia pahangensis* RIDL. *Chemistry & Biodiversity*, 16(6), e1900032. doi: 10.1002/cbdv.201900032

Manawar, R. B.; Gondaliya, M. B.; Shah, M. K.; Jotani, M.M.; & **Tiekink, Edward R. T.** (2019). 2-((1*E*)-[(*E*)-2-(2,6-Dichlorobenzylidene)hydrazin-1-ylidene]methyl]phenol: Crystal structure, Hirshfeld surface analysis and computational study. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 1423–1428. doi: 10.1107/S2056989019012349

Md Yusof, E. N.; Latif, M. A. M.; Tahir, M. I. M.; Sakoff, J. A.; Simone, M. I.; Page, A. J.; **Veerakumarasivam, Abhi; Tiekink, Edward R. T.**; & Ravoof, T. B. S. A. (2019). o-Vanillin derived Schiff bases and their organotin(IV) compounds: Synthesis, structural characterisation, in-silico studies and cytotoxicity. *International Journal of Molecular Sciences*, 20(4), 854. doi: 10.3390/ijms20040854

Md Yusof, E. N.; Nasri, N. M.; Ravoof, T. B. S. A.; Jotani, M. M.; & **Tiekink, Edward R. T.** (2019). Bis[*S*-benzyl 3-(furan-2-ylmethylidene)dithiocarbazato- κ^2N^3,S]copper(II): Crystal structure and Hirshfeld surface analysis. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 794–799. doi: 10.1107/S2056989019006145

Md Yusof, E. N.; Nasri, N. M.; Ravoof, T. B. S. A.; & **Tiekink, Edward R. T.** (2019). A ternary nickel(II) Schiff base complex containing di-anionic and neutral forms of a dithiocarbazate Schiff base. *Molbank*, 2019(2), M1057. doi: 10.3390/M1057

Murthy, S.; Hazli, U. H. A. M.; Kong, K. W.; Mai, C. W.; Leong, C. O.; Rahman, N. A.; **Lo, Kong Mun**; & Chee, C. F. (2019). Identification of novel sesamol dimers with unusual methylenedioxy ring-opening skeleton and evaluation of their antioxidant and cytotoxic activities. *Current Organic Synthesis*, 16(8), 1166–1173. doi: 10.2174/1570179416666191003095253

Ningrum, A.; Schreiner, M.; Luna, P.; Khoerunnisa, F.; & **Tiekink, Edward R. T.** (2019). Free volatile compounds in red and purple roselle (*Hibiscus sabdariffa*) pomace from Indonesia. *Food Research*, 3(6), 749–754. doi: 10.26656/fr.2017.3(6).133

Othman, M. A.; Yuyama, K.; Murai, Y.; Igarashi, Y.; Mikami, D.; **Sivasothy, Yasodha**; Awang, K.; & Monde, K. (2019). Malabaricone C as natural sphingomyelin synthase inhibitor against diet-induced obesity and its lipid metabolism in mice. *ACS Medicinal Chemistry Letters*, 10(8), 1154–1158. doi: 10.1021/acsmchemlett.9b00171

Tan, Sang Loon; Azizan, Ainnul Hamidah Syhadah; Jotani, M. M.; & **Tiekink, Edward R. T.** (2019). 3,3-Bis(2-hydroxyethyl)-1-(4-methylbenzoyl) thiourea: Crystal structure, Hirshfeld surface analysis and computational study. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 1472–1478. doi: 10.1107/S2056989019012581

Tan, Sang Loon; Halcovitch, N. R.; & **Tiekink, Edward R. T.** (2019). *N,N'*-Bis(pyridin-4-ylmethyl)oxalamide benzene monosolvate: Crystal structure, Hirshfeld surface analysis and computational study. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 1133–1139. doi: 10.1107/S2056989019009551

Tan, Sang Loon; Jotani, M. M.; & **Tiekink, Edward R. T.** (2019). Utilizing Hirshfeld surface calculations, non-covalent interaction (NCI) plots and the calculation of interaction energies in the analysis of molecular packing. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 308–318. doi: 10.1107/S2056989019001129

Tan, Sang Loon; & **Tiekink, Edward R. T.** (2019). A 1:1:1 co-crystal solvate comprising 2,2'-dithiodibenzoic acid, 2-chlorobenzoic acid and *N,N*-dimethylformamide: Crystal structure, Hirshfeld surface analysis and computational study. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 475–481. doi: 10.1107/S205698901900375X

Tan, Sang Loon; & Tiekink, Edward R. T. (2019). A 1:2 co-crystal of 2,2'-dithiodibenzoic acid and benzoic acid: Crystal structure, Hirshfeld surface analysis and computational study. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 1–7. doi: 10.1107/S2056989018017097

Tan, Sang Loon; & Tiekink, Edward R. T. (2019). Crystal structure of 2-(4-ammoniocyclohexyl)-3-(pyridin-2-yl)imidazo[1,5-*a*]pyridin-2-ium 2-[(2-carboxylatophenyl)disulfanyl]benzoate dihydrate, $[C_{18}H_{22}N_4][C_{14}H_8O_4S_2] \cdot 2H_2O$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 797–799. doi: 10.1515/ncrs-2019-0120

Tan, Sang Loon; & Tiekink, Edward R. T. (2019). Crystal structure of cyclohexane-1,4-diammonium 2-[(2-carboxylatophenyl)disulfanyl]benzoate - dimethylformamide - monohydrate (1/1/1), $[C_6H_{16}N_2][C_{14}H_8O_4S_2] \cdot C_3H_7NO \cdot H_2O$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 903–905. doi: 10.1515/ncrs-2019-0131

Tan, Sang Loon; & Tiekink, Edward R. T. (2019). Crystal structure of (cyclohexane-1,4-diammonium) 4-[(4-carboxylatophenyl)disulfanyl]benzoate dimethylsulphoxide hydrate (1/1/1/1), $[C_6H_{16}N_2]^{2+}[C_{14}H_8O_4S_2]^{2-} \cdot C_2H_6OS \cdot H_2O$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(6), 1301–1304. doi: 10.1515/ncrs-2019-0487

Tan, Sang Loon; & Tiekink, Edward R. T. (2019). Crystal structure of hemikis(cyclohexane-1,4-diammonium) (pyridine-2-carboxylate), $[C_6H_{16}N_2]_{0.5}[C_6H_4NO_2]$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 749–751. doi: 10.1515/ncrs-2019-0091

Tan, Sang Loon; & Tiekink, Edward R. T. (2019). Crystal structure of the 1:2 co-crystal between *N,N'*-bis(4-pyridylmethyl)oxalamide and acetic acid as a dihydrate, $C_{14}H_{14}N_4O_2 \cdot 2 C_2H_4O_2 \cdot 2 H_2O$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 1109–1111. doi: 10.1515/ncrs-2019-0477

Tan, Sang Loon; & Tiekink, Edward R. T. (2019). Crystal structure of the 2:1 co-crystal 2-[(2-carboxyphenyl)disulfanyl]benzoic acid – 3-bromobenzoic acid, $2(C_{14}H_{10}O_4S_2) \cdot C_7H_5BrO_2$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(6), 1305–1308. doi: 10.1515/ncrs-2019-0489

Tan, Sang Loon; & Tiekink, Edward R. T. (2019). Crystal structure of the co-crystal 2-[(2-carboxyphenyl)disulfanyl]benzoic acid-3-chlorobenzoic acid (2/1), $C_{35}H_{25}ClO_{10}S_4$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(3), 433–436. doi: 10.1515/ncrs-2019-0442

Tan, Sang Loon; & Tiekink, Edward R. T. (2019). Crystal structure of the co-crystal 4-[(4-carboxyphenyl)disulfanyl]benzoic acid-(1*E*,4*E*)-1-*N*,4-*N*-bis(pyridin-4-ylmethylidene)cyclohexane-1,4-diamine (1/1), $C_{14}H_{10}O_4S_2 \cdot C_{18}H_{20}N_4$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 1121–1123. doi: 10.1515/ncrs-2019-0488

Tan, Sang Loon; & Tiekink, Edward R. T. (2019). Crystal structure of the co-crystal *N,N'*-bis(3-pyridylmethyl)oxalamide acetic acid (1/2), $C_{14}H_{14}N_4O_2 \cdot 2C_2H_4O_2$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 1113–1116. doi: 10.1515/ncrs-2019-0478

Tan, Sang Loon; & Tiekink, Edward R. T. (2019). Crystal structure of the co-crystal *N,N'*-bis(4-pyridylmethyl)oxalamide and 2,3,5,6-tetrafluoro-1,4-diiodobenzene (1/1), $C_{14}H_{14}N_4O_2 \cdot C_6F_4I_2$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 1117–1119. doi: 10.1515/ncrs-2019-0479

Tan, Yee Seng; Chun, H. Z.; Jotani, M. M.; & **Tiekink, Edward R. T.** (2019). Steric control of supramolecular association in structures of $Zn(S_2COR)_2$ with N,N' -bis(pyridin-4-ylmethyl)oxalamide. *Zeitschrift für Kristallographie—Crystalline Materials*, 234(3), 165–175. doi: 10.1515/zkri-2018-2120

Tan, Yee Seng; & **Tiekink, Edward R. T.** (2019). A redetermination of the crystal structure of *catena*-poly[(bis(O,O' -isopropyl dithiophosphato- κ^2S,S')-(μ_2 -1,2-bis(3-pyridylmethylene)hydrazine- κ^2N,N')cadmium(II)], $\{C_{24}H_{38}CdN_4O_4P_2S_4\}_n$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 253–255. doi: 10.1515/ncrs-2019-0641

Tan, Yee Seng; & **Tiekink, Edward R. T.** (2019). Crystal structure of a low-temperature (100 K) polymorph of *catena*-poly[(μ_2 -4,4'-bipyridine- κ^2N,N')-bis(O,O' -diethyldithiophosphato- κ^1S)zinc(II)], $C_{18}H_{28}N_2O_4P_2S_4Zn$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 233–237. doi: 10.1515/ncrs-2019-0594

Tan, Yee Seng; & **Tiekink, Edward R. T.** (2019). Crystal structure of *catena*-[(μ_2 -pyrazine- $\kappa^2N:N'$)-bis(O,O' -di-ethyldithiophosphato- κ^2S,S')cadmium(II)], $\{C_{12}H_{24}CdN_2O_4P_2S_4\}_n$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(2), 319–321. doi: 10.1515/ncrs-2019-0648

Tan, Yee Seng; & **Tiekink, Edward R. T.** (2019). Crystal structure of *catena*-poly[(μ_2 -1,2-bis(3-pyridylmethylene)hydrazine- $\kappa^2N:N'$)-bis(O,O' -dimethyl dithiophosphato- κ^2-S,S')cadmium(II)], $\{C_{16}H_{22}CdN_4O_4P_2S_4\}_n$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(2), 339–341. doi: 10.1515/ncrs-2019-0654

Tan, Yee Seng; & Tiekink, Edward R. T. (2019). Crystal structure of *catena*-poly{ $[\mu_2$ -1,2-bis(diphenylphosphino)ethane]dichloridocadmium(II)}, $C_{26}H_{24}CdC_{12}P_2$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 1105–1107. doi: 10.1515/ncrs-2019-0371

Tan, Yee Seng; & Tiekink, Edward R. T. (2019). Crystal structure of *catena*-poly $[(\mu_2$ -4,4'-bipyridyl- $\kappa N, N'$)-bis(O, O' -dimethyldithiophosphato- κS)-zinc(II)], $\{C_{14}H_{20}N_2O_4P_2S_4Zn\}_n$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 743–745. doi: 10.1515/ncrs-2019-0085

Tan, Yee Seng; & Tiekink, Edward R. T. (2019). Crystal structure of *catena*-{poly[bis(O, O' -diethyldithiophosphato- S)- $(\mu_2$ -1,2-bis(4-pyridylmethylene)hydrazine- N, N')-zinc(II)] di-acetonitrile solvate}, $\{C_{20}H_{30}N_4O_4P_2S_4Zn \cdot 2 C_2H_3N\}_n$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 895–897. doi: 10.1515/ncrs-2019-0116

Tan, Yee Seng; & Tiekink, Edward R. T. (2019). Crystal structure of tetrakis(O, O' -diisopropyldithiophosphato- $\kappa^2 S, S'$)- $(\mu_2$ -1,2-bis(4-pyridylmethylene)hydrazine- $\kappa^2 N: N'$)-zinc(II), $C_{36}H_{66}N_4O_8P_4S_8Zn_2$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 827–829. doi: 10.1515/ncrs-2019-0133

Tan, Yee Seng; & Tiekink, Edward R. T. (2019). The pseudosymmetric low temperature polymorph of *catena*-poly $[(\mu_2$ -4,4'-bipyridyl- $\kappa N, N'$)-bis(O, O' -diethyldithiophosphato- κS)-cadmium(II)], $\{C_{18}H_{28}CdN_2O_4P_2S_4\}_n$. *Zeitschrift für Kristallographie—New Crystal Structures*, 235(1), 239–242. doi: 10.1515/ncrs-2019-0596

Tan, Y. J.; **Tan, Yee Seng; Yeo, Chien Ing; Chew, Jactty; & Tiekink, Edward R. T.** (2019). In vitro anti-bacterial and time kill evaluation of binuclear tricyclohexylphosphanesilver(I) dithiocarbamates, $\{C_3PAg(S_2CNRR')\}_2$. *Journal of Inorganic Biochemistry*, 192, 107–118. doi: 10.1016/j.jinorgbio.2018.12.017

Tan, Y. L.; Lim, F. P. L.; Dolzhenko, A. V.; & **Tiekink, Edward R. T.** (2019). Crystal structure of 3-(5-amino-1H-1,2,4-triazol-3-yl)-1-(piperidin-1-yl)propan-1-one, $C_{10}H_{17}N_5O$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 761–763. doi: 10.1515/ncrs-2019-0094.

Tonin, M. D. L.; Garden, S. J.; Jotani, M. M.; Wardell, J. L.; & **Tiekink, Edward R. T.** (2019). On the influence of small chemical changes upon the supramolecular association in substituted 2-(phenoxy)-1,4-naphthoquinones. *Zeitschrift für Kristallographie—Crystalline Materials*, 234(3), 183–200. doi: 10.1515/zkri-2018-2129

Wardell, J. L.; Jotani, M. M.; & **Tiekink, Edward R. T.** (2019). Bis(mefloquinium) butanedioate ethanol monosolvate: Crystal structure and Hirshfeld surface analysis. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 1162–1168. doi: 10.1107/S2056989019009654

Wardell, J. L.; & **Tiekink, Edward R. T.** (2019). Crystal structure of 2-((2,8-bis(trifluoromethyl)quinolin-4-yl)(hydroxy)methyl)piperidin-1-ium trifluoroacetate, $[C_{17}H_{17}F_6N_2O][C_2F_3O_2]$. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 687–689. doi: 10.1515/ncrs-2019-0037

Yeo, Chien Ing; Azizan, Ainnul Hamidah Syhadah; & Tiekink, Edward R. T. (2019). 4-(4-chlorophenyl)-4,5-dihydro-1H-1,2,4-triazole-5-thione. *MolBank*, 2019(1), M1047. doi: 10.3390/M1047

Yeo, Chien Ing; & Tiekink, Edward R. T. (2019). 1-[N-methyl-N-(Phenyl) amino]-3-(4-methylphenyl)thiourea. *MolBank*, 2019(1), M1052. doi: 10.3390/M1052

Yeo, Chien Ing; & Tiekink, Edward R. T. (2019). Crystal structure of 1-(4-chlorophenyl)-3-[methyl(phenyl)amino]thiourea, C₁₄H₁₄ClN₃S. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 989–990. doi: 10.1515/ncrs-2019-0205

Yeo, Chien Ing; & Tiekink, Edward R. T. (2019). Crystal structure of 3-[methyl(phenyl)amino]-1-phenylthiourea, C₁₄H₁₅N₃S. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(5), 987–988. doi: 10.1515/ncrs-2019-0204

Yeo, Chien Ing; & Tiekink, Edward R. T. (2019). Crystal structure of 4-phenyl-2,4-dihydro-3H-1,2,4-triazole-3-thione, C₈H₇N₃S. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 819–820. doi: 10.1515/ncrs-2019-0128

Yeo, Chien Ing; & Tiekink, Edward R. T. (2019). Crystal structure of N-(2-methylphenyl)(propan-2-yloxy)carbothioamide, C₁₁H₁₅NOS. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(3), 589–591. doi: 10.1515/ncrs-2019-0045

Yeo, Chien Ing; & Tiekink, Edward R. T. (2019). Crystal structure of N-(3-methylphenyl)(propan-2-yloxy)carbothioamide, C₁₁H₁₅NOS. *Zeitschrift für Kristallographie—New Crystal Structures*, 234(4), 813–815. doi: 10.1515/ncrs-2019-0125

Zaoui, Y.; Ramli, Y.; Taoufik, J.; Mague, J. T.; Jotani, M. M.; **Tiekink, Edward R. T.**; & Ansar, M. (2019). Ethyl 2-(4-benzyl-3-methyl-6-oxo-1,6-dihydropyridazin-1-yl)acetate: Crystal structure and Hirshfeld surface analysis. *Acta Crystallographica Section E: Crystallographic Communications*, 75, 392–396. doi: 10.1107/S205698901900241X

Research Centre for Nano-Materials and Energy Technology

Abdelrazik, A. S.; Al-Sulaiman, F. A.; & **Rahman, Saidur**. (2019). Optical behavior of a water/silver nanofluid and their influence on the performance of a photovoltaic-thermal collector. *Solar Energy Materials and Solar Cells*, 201, 110054. doi: 10.1016/j.solmat.2019.110054

Abdelrazik, A. S.; Al-Sulaiman, F. A.; **Rahman, Saidur**; & Ben-Mansour, R. (2019). Evaluation of the effects of optical filtration and nanoPCM on the performance of a hybrid photovoltaic-thermal solar collector. *Energy Conversion and Management*, 195, 139–156. doi: 10.1016/j.enconman.2019.04.083

Akinpelu, A. A.; Ali, M. E.; Johan, M. R.; **Rahman, Saidur**; Chowdhury, Z. Z.; Shemsi, A. M.; & Saleh, T. A. (2019). Effect of the oxidation process on the molecular interaction of polyaromatic hydrocarbons (PAH) with carbon nanotubes: Adsorption kinetic and isotherm study. *Journal of Molecular Liquids*, 289, 111107. doi: 10.1016/j.molliq.2019.111107

Akinpelu, A. A.; Ali, M. E.; Johan, M. R.; **Rahman, Saidur**; Qurban, M. A.; & Saleh, T. A. (2019). Polycyclic aromatic hydrocarbons extraction and removal from wastewater by carbon nanotubes: A review of the current technologies, challenges and prospects. *Process Safety and Environmental Protection*, 122, 68–82. doi: 10.1016/j.psep.2018.11.006

Anwar, Ayaz; Leong, C. F.; Anwar, A.; **Jagadish, Priyanka; Arshid, Numan; Khalid, Mohammad; Shahabuddin, Syed; Siddiqui, Ruqaiyyah; & Khan, Naveed Ahmed.** (2019). Effects of shape and size of cobalt phosphate nanoparticles against *Acanthamoeba castellanii*. *Pathogens*, 8(4), 260. doi: 10.3390/pathogens8040260

Arifutzzaman, Rahat; Ismail, A. F.; Alam, M. Z.; Khan, A. A.; & **Rahman, Saidur.** (2019). Investigation of extraction yields of exfoliated graphene in deionized water from organic solvents. *International Journal of Technology*, 10(6), 1251–1259. doi: 10.14716/ijtech.v10i6.3686

Asadi, M.; **Shahabuddin, Syed;** Mollahosseini, A.; **Kaur, Jesbains; & Rahman, Saidur.** (2019). Electrospun magnetic zeolite/polyacrylonitrile nanofibers for extraction of PAHs from waste water: Optimized with central composite design. *Journal of Inorganic and Organometallic Polymers and Materials*, 29, 1057–1066. doi: 10.1007/s10904-019-01297-8

Aslfattahi, N., **Rahman, Saidur,** Mohd Sabri, M. F., & **Arifutzzaman, Rahat.** (2019). Experimental investigation of thermal stability and enthalpy of eutectic alkali metal solar salt dispersed with MgO nanoparticles. *International Journal of Technology*, 10(6), 1112–1119. doi: 10.14716/ijtech.v10i6.3568

Bakthavatchalam, B.; Rajasekar, K.; Habib, K.; & **Rahman, Saidur.** (2019). Numerical analysis of humidification dehumidification desalination system. *Evergreen*, 6(1), 9–17. doi: 10.5109/2320996

Ben-Mansour, R.; Al-Jabr, A. H.; & **Rahman, Saidur.** (2019). Economic comparison between RO-wind and RO-PV desalination systems. *Desalination and Water Treatment*, 156, 7–19. doi: 10.5004/dwt.2019.24090

Chopra, K.; Tyagi, V. V.; Pathak, A. K.; **Pandey, Adarsh Kumar**; & Sari, A. (2019). Experimental performance evaluation of a novel designed phase change material integrated manifold heat pipe evacuated tube solar collector system. *Energy Conversion and Management*, 198, 111896. doi: 10.1016/j.enconman.2019.111896

Chowdhury, H.; Chowdhury, T.; Chowdhury, P.; Islam, M.; **Rahman, Saidur**; & Sait, S. M. (2019). Integrating sustainability analysis with sectoral exergy analysis: A case study of rural residential sector of Bangladesh. *Energy and Buildings*, 202, 109397. doi: 10.1016/j.enbuild.2019.109397

Chowdhury, H.; Chowdhury, T.; Thirugnanasambandam, M.; Farhan, M.; Ahamed, J. U.; **Rahman, Saidur**; & Sait, S. M. (2019). A study on exergetic efficiency vis-à-vis sustainability of industrial sector in Bangladesh. *Journal of Cleaner Production*, 231, 297–306. 10.1016/j.jclepro.2019.05.174

Chowdhury, T.; Chowdhury, H.; Thirugnanasambandam, M.; Hossain, S.; Barua, P.; Ahamed, J. U.; **Rahman, Saidur**; & Sait, S. M. (2019). Is the commercial sector of Bangladesh sustainable?—Viewing via an exergetic approach. *Journal of Cleaner Production*, 228, 544–556. doi: 10.1016/j.jclepro.2019.04.270

Farjana, S. H.; Huda, N.; Parvez Mahmud, M. A.; & **Rahman, Saidur**. (2019). A review on the impact of mining and mineral processing industries through life cycle assessment. *Journal of Cleaner Production*, 231, 1200–1217. doi: 10.1016/j.jclepro.2019.05.264

George, M.; **Pandey, Adarsh Kumar**; Abd Rahim, N.; Tyagi, V. V.; **Shahabuddin, Syed**; & **Rahman, Saidur**. (2019). Concentrated photovoltaic thermal systems: A component-by-component view on the developments in the design, heat transfer medium and applications. *Energy Conversion and Management*, 186, 15–41. doi: 10.1016/j.enconman.2019.02.052

Hoque, M. I. U.; Yamauchi, Y.; Naidu, R.; Holze, R.; **Rahman, Saidur**; Qu, Q.; Rahman, M. M.; Torad, N. L.; Hossain, M. S. A.; Kim, M.; Kim, J.; Ahmad, S. H. A.; Rehman, A. U.; Firoz, M. S. H.; Luba, U.; Chowdhury, S.; & Chowdhury, A. (2019). A facile synthesis of hematite nanorods from rice starch and their application to Pb(II) ions removal. *Chemistry Select*, 4(13), 3730–3736. doi: 10.1002/slct.201802462

Hossain, M. S.; **Pandey, Adarsh Kumar**; Selvaraj, J.; Abd Rahim, N.; Islam, M. M.; & Tyagi, V. V. (2019). Two side serpentine flow based photovoltaic-thermal-phase change materials (PVT-PCM) system: Energy, exergy and economic analysis. *Renewable Energy*, 136, 1320–1336. doi: 10.1016/j.renene.2018.10.097

Hossain, M. S.; **Pandey, Adarsh Kumar**; Selvaraj, J.; Abd Rahim, N.; Rivai, A.; & Tyagi, V. V. (2019). Thermal performance analysis of parallel serpentine flow based photovoltaic/thermal (PV/T) system under composite climate of Malaysia. *Applied Thermal Engineering*, 153, 861–871. doi: 10.1016/j.applthermaleng.2019.01.007

Hossain, N.; Mahlia, T. M. I.; & **Rahman, Saidur**. (2019). Latest development in microalgae-biofuel production with nano-additives. *Biotechnology for Biofuels*, 12, 125. doi: 10.1186/s13068-019-1465-0

Hossain, N.; Mahlia, T. M. I.; Zaini, J.; & **Rahman, Saidur**. (2019). Techno-economics and sensitivity analysis of microalgae as commercial feedstock for bioethanol production. *Environmental Progress & Sustainable Energy*, 38(5), 13157. doi: 10.1002/ep.13157

Hussein, O. A.; Habib, K.; **Rahman, Saidur**; Muhsan, A. S.; **Shahabuddin, Syed**; & Alawi, O. A. (2019). The influence of covalent and non-covalent functionalization of GNP based nanofluids on its thermophysical, rheological and suspension stability properties. *RSC Advances*, 9, 38576–38589. doi: 10.1039/C9RA07811H

Indira, S. S.; Vaithilingam, C. A.; Oruganti, K. S. P.; Mohd, F.; & **Rahman, Saidur**. (2019). Nanogenerators as a sustainable power source: state of art, applications, and challenges. *Nanomaterials*, 9(5), 773. doi: 10.3390/nano9050773

Irshad, K.; Habib, K.; **Rahman, Saidur**; Kareem, M. W.; & Saha, B. B. (2019). Study of thermoelectric and photovoltaic facade system for energy efficient building development: A review. *Journal of Cleaner Production*, 209, 1376–1395. doi: 10.1016/j.jclepro.2018.09.245

Islam, M. T.; Huda, N.; & **Rahman, Saidur**. (2019). Current energy mix and techno-economic analysis of concentrating solar power (CSP) technologies in Malaysia. *Renewable Energy*, 140, 789–806. doi: 10.1016/j.renene.2019.03.107

Issam, A. M.; **Shahabuddin, Syed**; Kareem, H. S.; Mohamad, S.; & **Rahman, Saidur**. (2019). Synthesis of a novel ladder poly(Azomethine-ester) based on PET waste bottles. *International Polymer Processing*, 34(3), 296–306. doi: 10.3139/217.3595

Jamil, Nurfatihah; Kaur, Jesbains; Pandey, Adarsh Kumar; Shahabuddin, Syed; Hassani, Samir; Rahman, Saidur; Ali, R. R.; Che Sidik, N. A.; & Naim, M. (2019). A review on nano enhanced phase change materials: An enhancement in thermal properties and specific heat capacity. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 57(1), 110–120. http://www.akademiabaru.com/arfmtsv57_n1_p110_120.html

Japar, W. M. A. A.; Che Sidik, N. A.; **Rahman, Saidur**; Asako, Y.; & Mohd Azmi, M. I. (2019). Temperature minimization on the substrate of a heat sink by rib-groove microchannel heat sink with effective energy consumption: Groove geometry parameter effects. *CFD Letters*, 11(9), 1–13. http://www.akademiabaru.com/doc/CFDLV11_N9_PI_13.pdf

Kaur, Jesbains; Jamil, N.; **Shahabuddin, Syed**; **Pandey, Adarsh Kumar**; **Rahman, Saidur**; Yohannes, F.; & Singh, B. (2019). The effects of graphene on microstructural and thermal properties of calcium chloride hexahydrate PCM. *2018 International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*. doi: 10.23919/ICUE-GESD.2018.8635788

Kean, T. H.; Che Sidik, N. A.; & **Kaur, Jesbains**. (2019). Numerical investigation on melting of Phase Change Material (PCM) dispersed with various nanoparticles inside a square enclosure. *IOP Conference Series: Materials Science and Engineering*, 469, 012034. doi: 10.1088/1757-899X/469/1/012034

Khanam, R.; Hejazi, I. I.; **Shahabuddin, Syed**; Bhat, A. R.; & Athar, F. (2019). Pharmacokinetic evaluation, molecular docking and in vitro biological evaluation of 1, 3, 4-oxadiazole derivatives as potent antioxidants and STAT3 inhibitors. *Journal of Pharmaceutical Analysis*, 9(2), 133–141. doi: 10.1016/j.jpha.2018.12.002

Khanam, R.; Kumar, R.; Hejazi, I. I.; **Shahabuddin, Syed**; Meena, R.; Rajamani, P.; Yadav, N.; Bhat, A. I.; & Athar, F. (2019). New *N*-benzhydrylpiperazine/1,3,4-oxadiazoles conjugates inhibit the proliferation, migration, and induce apoptosis in HeLa cancer cells via oxidative stress-mediated mitochondrial pathway. *Journal of Cellular Biochemistry*, 120(2), 1651–1666. doi: 10.1002/jcb.27472

Kuwano, N.; **Kaur, Jesbains**; & Rahmah, S. (2019). Electron microscopy determination of crystallographic polarity of aluminum nitride thin films. *Micron*, 116, 80–83. doi: 10.1016/j.micron.2018.09.014

Mahbubul, I. M.; Elcioglu, E. B.; & **Rahman, Saidur**. (2019). Stability, thermophysical properties and performance assessment of alumina–water nanofluid with emphasis on ultrasonication and storage period. *Powder Technology*, 345, 668–675. doi: 10.1016/j.powtec.2019.01.041

Mascarenhas, J. D. S.; Chowdhury, H.; Thirugnanasambandam, M.; Chowdhury, T.; & **Rahman, Saidur**. (2019). Energy, exergy, sustainability, and emission analysis of industrial air compressors. *Journal of Cleaner Production*, 231, 183–195. doi: 10.1016/j.jclepro.2019.05.158

Masri, A.; **Anwar, Ayaz**; **Khan, Naveed Ahmed**; Shahbaz, M. S.; Khan, K. M.; **Shahabuddin, Syed**; & **Siddiqui, Ruqaiyyah**. (2019). Antibacterial effects of quinazolin-4(3H)-one functionalized-conjugated silver nanoparticles. *Antibiotics*, 8(4), 179. doi: 10.3390/antibiotics8040179

Mohsin, M.; **Rasheed, Abdul Khaliq**; Sun, H.; Zhang, J.; Iram, R.; Iqbal, N.; & Abbas, Q. (2019). Developing low carbon economies: An aggregated composite index based on carbon emissions. *Sustainable Energy Technologies and Assessments*, 35, 365–374. doi: 10.1016/j.seta.2019.08.003

Mohsin, M.; Zhang, J.; **Rahman, Saidur**; Sun, H.; & Sait, S. M. (2019). Economic assessment and ranking of wind power potential using fuzzy-TOPSIS approach. *Environmental Science and Pollution Research International*, 26(22), 22494–22511. doi: 10.1007/s11356-019-05564-6

Mukheem, A.; **Shahabuddin, Syed**; Akbar, N.; Miskon, A.; Muhamad Sarih, N.; Sudesh, K.; **Khan, Naveed Ahmed**; **Rahman, Saidur**; & Sridewi, N. (2019). Boron nitride doped polyhydroxyalkanoate/chitosan nanocomposite for antibacterial and biological applications. *Nanomaterials*, 9(4), 645. doi: 10.3390/nano9040645

Panchal, H.; Sathyamurthy, R.; **Pandey, Adarsh Kumar**; Kumar, M.; Arunkumar, T.; & Patel, D. K. (2019). Annual performance analysis of a single-basin passive solar still coupled with evacuated tubes: Comprehensive study in climate conditions of Mahesana, Gujarat. *International Journal of Ambient Energy*, 40(3), 229–242. doi: 10.1080/01430750.2017.1378720

Pandey, Adarsh Kumar; **Shahabuddin, Syed**; **Kaur, Jesbains**; **Rahman, Saidur**; Ahmad, M. S.; Abd Rahim, N.; & Tariq, S. (2019). Preparation of fuel pellets and extraction of natural dyes from falling leaves to be used as sensitizer in dye sensitized solar cell. *2018 International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*. doi: 10.23919/ICUE-GESD.2018.8635724

Reza, M. S.; Ahmed, A.; Caesarendra, W.; Abu Bakar, M. S.; Shams, S.; **Rahman, Saidur**; Aslfattahi, N.; & Azad, A. K. (2019). *Acacia holosericea*: An invasive species for bio-char, bio-oil, and biogas production. *Bioengineering*, 6(2), 33. doi: 10.3390/bioengineering6020033

Sajid, I. H.; Aslfattahi, N.; Mohd Sabri, M. F.; Mohd Said, S.; **Rahman, Saidur**; Mohd Salleh, M. F.; & Nik Ghazali, N. N. (2019). Synthesis and characterization of novel p-type chemically cross-linked ionogels with high ionic Seebeck coefficient for low-grade heat harvesting. *Electrochimica Acta*, 320, 134575. doi: 10.1016/j.electacta.2019.134575

Sajid, I. H.; Mohd Sabri, M. F.; Mohd Said, S.; Mohd Salleh, M. F.; Nik Ghazali, N. N.; **Rahman, Saidur**; Subramaniam, B.; Hasan, S. W.; & Jaffery, H. A. (2019). Crosslinked thermoelectric hydro-ionogels: A new class of highly conductive thermoelectric materials. *Energy Conversion and Management*, 198, 111813. doi: 10.1016/j.enconman.2019.111813

Shahabuddin, Syed; Arshid, Numan; Shahid, M. M.; Khanam, R.; **Rahman, Saidur; Pandey, Adarsh Kumar**; & Ramesh, S. (2019). Polyaniline-SrTiO₃ nanocube based binary nanocomposite as highly stable electrode material for high performance supercapattery. *Ceramics International*, 45(9), 11428–11437. doi: 10.1016/j.ceramint.2019.03.009

Shahabuddin, Syed; Pandey, Adarsh Kumar; Kaur, Jesbains; Rahman, Saidur; Mazlan, N. A.; & Baharin, S. N. A. (2019). The metal oxide nanoparticles doped polyaniline based nanocomposite as stable electrode material for supercapacitors. *2018 International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*. doi: 10.23919/ICUE-GESD.2018.8635667

Shahid, M. M.; Rameshkumar, P.; **Arshid, Numan; Shahabuddin, Syed**; Alizadeh, M.; Khiew, P. S.; & Wee, S. C. (2019). A cobalt oxide nanocubes interleaved reduced graphene oxide nanocomposite modified glassy carbon electrode for amperometric detection of serotonin. *Materials Science and Engineering: C*, 100, 388–395. doi: 10.1016/j.msec.2019.02.107

Shouquat, H. M.; Abd, R. N.; Selvaraj, J.; & **Pandey, Adarsh Kumar**. (2019). Experimental investigation on energy performance of hybrid PV/T-PCM system. *2019 Fifth International Conference on Electrical Energy Systems (ICEES)*. doi: 10.1109/ICEES.2019.8719239

Singh, G.; Singh, P. J.; Tyagi, V. V.; Barnwal, P.; & **Pandey, Adarsh Kumar**. (2019). Energy, exergy and exergoeconomic analysis of high temperature short time milk pasteurisation plant. *International Journal of Exergy*, 30(1). doi: 10.1504/IJEX.2019.101626.

Singh, G.; Singh, P. J.; Tyagi, V. V.; Barnwal, P.; & **Pandey, Adarsh Kumar**. (2019). Exergy and thermoeconomic analysis of cream pasteurisation plant. *Journal of Thermal Analysis and Calorimetry*, 137, 1381–1400. doi: 10.1007/s10973-019-08016-y

Singh, G.; Singh, P. J.; Tyagi, V. V.; Barnwal, P.; & **Pandey, Adarsh Kumar**. (2019). Exergy and thermo-economic analysis of ghee production plant in dairy industry. *Energy*, 167, 602–618. doi: 10.1016/j.energy.2018.10.138

Singh, G.; Singh, P. J.; Tyagi, V. V.; & **Pandey, Adarsh Kumar**. (2019). Thermal and exergoeconomic analysis of a dairy food processing plant. *Journal of Thermal Analysis and Calorimetry*, 136, 1365–1382. doi: 10.1007/s10973-018-7781-y

Syafiq, A.; **Pandey, Adarsh Kumar**; Abd Rahim, N.; Vengadaesvaran, B.; & **Shahabuddin, Syed**. (2019). Self-cleaning and weather resistance of nano-SnO₂/modified silicone oil coating for photovoltaic (PV) glass applications. *Journal of Materials Science: Materials in Electronics*, 30, 12584–12596. doi: 10.1007/s10854-019-01619-z

Syafiq, A.; Vengadaesvaran, B.; Abd Rahim, N.; **Pandey, Adarsh Kumar**; Bushroa, A. R.; Ramesh, K.; & Ramesh, S. (2019). Transparent self-cleaning coating of modified polydimethylsiloxane (PDMS) for real outdoor application. *Progress in Organic Coatings*, 131, 232–239. doi: 10.1016/j.porgcoat.2019.02.020

Vasu, A.; Hagos, F. Y.; Mamat, R.; **Kaur, Jesbains**; & Noor, M. M. (2019). The effect of thermal cyclic variation on the thermophysical property degradation of paraffin as a phase changing energy storage material. *Applied Thermal Engineering*, *149*, 22–33. doi: 10.1016/j.applthermaleng.2018.12.033

Zahir, M. H.; Mohamed, S. A.; **Rahman, Saidur**; & Al-Sulaiman, F. A. (2019). Supercooling of phase-change materials and the techniques used to mitigate the phenomenon. *Applied Energy*, *240*, 793–817. doi: 10.1016/j.apenergy.2019.02.045

Zendehboudi, A.; Mota-Babiloni, A.; Makhnatch, P.; **Rahman, Saidur**; & Sait, S. M. (2019). Modeling and multi-objective optimization of an R450A vapor compression refrigeration system [Modélisation et optimisation multi-objectifs d'un système frigorifique à compression de vapeur au R450A]. *International Journal of Refrigeration*, *100*, 141–155. doi: 10.1016/j.ijrefrig.2019.01.008

Zendehboudi, A.; & **Rahman, Saidur**. (2019). A reliable model to estimate the effective thermal conductivity of nanofluids. *Heat and Mass Transfer*, *55*, 397–411. doi: 10.1007/s00231-018-2420-5

Zendehboudi, A.; **Rahman, Saidur**; Mahbubul, I. M.; & Hosseini, S. H. (2019). Data-driven methods for estimating the effective thermal conductivity of nanofluids: A comprehensive review. *International Journal of Heat and Mass Transfer*, *131*, 1211–1231. doi: 10.1016/j.ijheatmasstransfer.2018.11.053

Centre for Virus and Vaccine Research

Ahmad, Z.; & **Poh, Chit Laa**. (2019). The conserved molecular determinants of virulence in dengue virus. *International Journal of Medical Sciences*, *16*(3), 355–365. doi: 10.7150/ijms.29938

Anasir, Mohd Ishtiaq; & Poh, Chit Laa. (2019). Advances in antigenic peptide-based vaccine and neutralizing antibodies against viruses causing hand, foot, and mouth disease. *International Journal of Molecular Sciences*, 20(6), 1256. doi: 10.3390/ijms20061256

Anasir, Mohd Ishtiaq; & Poh, Chit Laa. (2019). Structural vaccinology for viral vaccine design. *Frontiers in Microbiology*. doi: 10.3389/fmicb.2019.00738

Ishak, S. N. H.; **Masomian, Malihe;** Ahmad Kamarudin, N. H.; Ali, M. S. M.; Leow, T. C.; & Raja Abd. Rahman, R. N. Z. (2019). Changes of thermostability, organic solvent, and pH stability in *Geobacillus zalihae* HTI and its mutant by calcium ion. *International Journal of Molecular Sciences*, 20(10), 2561. doi: 10.3390/ijms20102561

Jazayeri, Seyed Davoud; & Poh, Chit Laa. (2019). Development of universal influenza vaccines targeting conserved viral proteins. *Vaccines*, 7(4), 169. doi: 10.3390/vaccines7040169

Jazayeri, Seyed Davoud; & Poh, Chit Laa. (2019). Recent advances in delivery of veterinary DNA vaccines against avian pathogens. *Veterinary Research*, 50, 78. doi: 10.1186/s13567-019-0698-z

Kamaruzman, N. I.; **Abd Aziz, Noraini; Poh, Chit Laa;** & Chowdhury, E. H. (2019). Oncogenic signaling in tumorigenesis and applications of siRNA nanotherapeutics in breast cancer. *Cancers*, 11(5), 632. doi: 10.3390/cancers11050632

Lim, Hui Xuan; & Poh, Chit Laa. (2019). Insights into innate and adaptive immune responses in vaccine development against EV-A71. *Therapeutic Advances in Vaccines and Immunotherapy*. doi: 10.1177/2515135519888998

Mandary, M. B.; **Masomian, Malihe**; & Poh, Chit Laa. (2019). Impact of RNA virus evolution on quasispecies formation and virulence. *International Journal of Molecular Sciences*, 20(18), 4657. doi: 10.3390/ijms20184657

Raihan, N.; Abbasiliasi, S.; Tan, J. S.; **Masomian, Malihe**; Tengku Ibrahim, T. A.; Ariff, A. B.; & Mustafa, S. (2019). pH shift solubilization and precipitation protein extraction from the wastes of the threadfin bream, *Nemipterus japonicus*. *Journal of Biochemistry, Microbiology and Biotechnology*, 7(1), 10–16. <https://journal.hibiscuspublisher.com/index.php/JOBIMB/article/view/446>

Roberts, R.; **Yee, Pinn Tsin Isabel**; Mujawar, S.; **Lahiri, Chandrajit; Poh, Chit Laa**; & Gatherer, D. (2019). A decade of sustained selection pressure on two surface sites of the VP1 protein of Enterovirus A71 suggests that immune evasion may be an indirect driver for virulence. *Scientific Reports*, 9(1), 5427. doi: 10.1038/s41598-019-41662-8

Veno, J.; Raja Abd Rahman, R. N. Z.; **Masomian, Malihe**; Ali, M. S. M.; & Kamarudin, N. H. A. (2019). Insight into improved thermostability of cold-adapted staphylococcal lipase by glycine to cysteine mutation. *Molecules*, 24(17), 3169. doi: 10.3390/molecules24173169.

Yee, Pinn Tsin Isabel; Tan, S. H.; Ong, K. C.; **Tan, Kuan Onn**; Wong, K. T.; Syed Hassan, S.; & Poh, Chit Laa. (2019). Development of live attenuated Enterovirus 71 vaccine strains that confer protection against lethal challenge in mice. *Scientific Reports*, 9, 4805. doi: 10.1038/s41598-019-41285-z

Graphene and Advanced 2D Materials Research Group

Agudosi, E. S.; Abdullah, E. C.; **Arshid, Numan**; Mubarak, N. M.; **Khalid, Mohammad**; & Omar, N. (2019). A review of the graphene synthesis routes and its applications in electrochemical energy storage. *Critical Reviews in Solid State and Materials Sciences*, 45(5), 339–377. doi: 10.1080/10408436.2019.1632793

Ahmed, S. F.; **Khalid, Mohammad**; Walvekar, R.; Vaka, M.; Mubarak, N. M.; Chamkha, A.; & Khalid, M. (2019). Investigating the effect of graphene on eutectic salt properties for thermal energy storage. *Materials Research Bulletin*, 119, 110568. doi: 10.1016/j.materresbull.2019.110568

Amin, D.; Walvekar, R.; **Khalid, Mohammad**; Mubarak, N. M.; Gupta, T. C. S. M. (2019). Recent progress and challenges in transformer oil nanofluid development: A review on thermal and electrical properties. *IEEE Access*, 7, 151422–151438. doi: 10.1109/ACCESS.2019.2946633

Anwar, Ayaz; **Arshid, Numan**; **Siddiqui, Ruqaiyyah**; **Khalid, Mohammad**; & **Khan, Naveed Ahmed**. (2019). Cobalt nanoparticles as novel nanotherapeutics against *Acanthamoeba castellanii*. *Parasites & Vectors*, 12, 280. doi: 10.1186/s13071-019-3528-2

Anwar, Ayaz; Leong, C. F.; Anwar, A.; **Jagadish, Priyanka**; **Arshid, Numan**; **Khalid, Mohammad**; **Shahabuddin, Syed**; **Siddiqui, Ruqaiyyah**; & **Khan, Naveed Ahmed**. (2019). Effects of shape and size of cobalt phosphate nanoparticles against *Acanthamoeba castellanii*. *Pathogens*, 8(4), 260. doi: 10.3390/pathogens8040260

Chan, S. N.; Wong, W. Y.; Walvekar, R.; Kadhum, A. A. H.; & **Khalid, Mohammad**. (2019). Parametric optimization of pulsed laser ablation on stainless steel for improving corrosion resistance by Taguchi method. *Materials Research Express*, 6(2), 026533. doi: 10.1088/2053-1591/aaed03

Chan, S. N.; Wong, W. Y.; Walvekar, R.; Kadhum, A. A. H.; **Khalid, Mohammad**; & Lim, K. L. (2019). Effect of pulsed laser ablation in water on the corrosion behaviour and surface hardness of stainless steels [Kesan ablasi laser gentian denyut dalam air terhadap kakisan dan kekerasan permukaan keluli kalis karat]. *Malaysian Journal of Analytical Sciences*, 23(1), 155–169. doi: 10.17576/mjas-2019-2301-19

Chandran, Davannendran; Khalid, Mohammad; Raviadaran, R.; & **Jagadish, Priyanka**. (2019). Corrosion of aluminium in water-in-diesel-emulsion fuel. *IOP Conference Series: Materials Science and Engineering*, 542, 012004. doi: 10.1088/1757-899X/542/1/012004

Chandran, Davannendran; Khalid, Mohammad; Raviadaran, R.; Lau, H. L. N.; Yung, C. L.; Kanesan, D.; & Salim, M. (2019). Sustainability of water in diesel emulsion fuel: An assessment of its corrosion behaviour towards copper. *Journal of Cleaner Production*, 220, 1005–1013. doi: 10.1016/j.jclepro.2019.02.210

Chandran, Davannendran; Khalid, Mohammad; Walvekar, R.; Mubarak, N. M.; Dharaskar, S.; Wong, W. Y.; & Gupta, T. C. S. M. (2019). Deep eutectic solvents for extraction-desulphurization: A review. *Journal of Molecular Liquids*, 275, 312–322. doi: 10.1016/j.molliq.2018.11.051

Duraisamy, N.; **Arshid, Numan**; Kandiah, K.; Iqbal, J.; Arunachalam, P.; Dhanaraj, G.; Ramesh, K.; & Ramesh, S. (2019). Development of asymmetric device using $\text{Co}_3(\text{PO}_4)_2$ as a positive electrode for energy storage application. *Journal of Materials Science: Materials in Electronics*, 30, 7435–7446. doi: 10.1007/s10854-019-01057-x

Farah, N.; Ng, H. M.; **Arshid, Numan**; Liew, C. W.; Latip, N. A. A.; Ramesh, K.; & Ramesh, S. (2019). Solid polymer electrolytes based on poly(vinyl alcohol) incorporated with sodium salt and ionic liquid for electrical double layer capacitor. *Materials Science and Engineering: B*, 251, 114468. doi: 10.1016/j.mseb.2019.114468

Hairuddin, M. N.; Mubarak, N. M.; **Khalid, Mohammad**; Abdullah, E. C.; Walvekar, R.; & Karri, R. R. (2019). Magnetic palm kernel biochar potential route for phenol removal from wastewater. *Environmental Science and Pollution Research*, 26, 35183–35197. doi: 10.1007/s11356-019-06524-w

Heng, I.; Lai, C. W.; Juan, J. C.; **Arshid, Numan**; Iqbal, J.; & Teo, E. Y. L. (2019). Low-temperature synthesis of TiO_2 nanocrystals for high performance electrochemical supercapacitors. *Ceramics International*, 45(4), 4990–5000. doi: 10.1016/j.ceramint.2018.11.199

Iqbal, J.; Li, L.; **Arshid, Numan**; Rafique, S.; Jafer, R.; Mohamad, S.; **Khalid, Mohammad**; Ramesh, K.; & Ramesh, S. (2019). Density functional theory simulation of cobalt oxide aggregation and facile synthesis of a cobalt oxide, gold and multiwalled carbon nanotube based ternary composite for a high performance supercapattery. *New Journal Chemistry*, 43(33), 13183–13195. doi: 10.1039/C9NJ02473E

Iqbal, M. Z.; Khan, A.; **Arshid, Numan**; Haider, S. S.; & Iqbal, J. (2019). Ultrasonication-assisted synthesis of novel strontium based mixed phase structures for supercapattery devices. *Ultrasonics Sonochemistry*, 59, 104736. doi: 10.1016/j.ultsonch.2019.104736

Jagadish, Priyanka; Khalid, Mohammad; Amin, N.; Hajibeigy, M. T.; Lau, P. L.; **Arshid, Numan**; Mubarak, N. M.; Walvekar, R.; & Chan, A. (2019). Recycled carbon fibre/ Bi_2Te_3 and Bi_2S_3 hybrid composite doped with MWCNTs for thermoelectric applications. *Composites Part B: Engineering*, 175, 107085. doi: 10.1016/j.compositesb.2019.107085

Jagadish, Priyanka; Khalid, Mohammad; Lau, P. L.; Amin, N.; Walvekar, R.; & Chan, A. (2019). Effect of graphene doping on the charge carrier and thermoelectric properties of RCF- Bi_2S_3 composites. *AIP Conference Proceedings*, 2137, 020004. doi: 10.1063/1.5120980

Jagadish, Priyanka; Lau, P. L.; Cheah, E. S. F.; Lim, C. T.; Ng, S. P.; Yeoh, B. S.; Chan, A.; **Khalid, Mohammad**; & **Chandran, Davannendran**. (2019). Flexible thermoelectric films from electrodeposited Bi_2Te_3 on recycled carbon fibre—Modulation of Seebeck coefficient by electrode pre-treatment. *IOP Conference Series: Earth and Environmental Science*, 268, 012161. doi: 10.1088/1755-1315/268/1/012161

Kanesan, G.; Mohyaldinn, M. E.; Ismail, N. I.; **Chandran, Davannendran**; & Chang, J. L. (2019). An experimental study on the erosion of stainless steel wire mesh sand screen using sand blasting technique. *Journal of Natural Gas Science and Engineering*, 65, 267–274. doi: 10.1016/j.jngse.2019.03.017

Ketabchi, M. R.; **Khalid, Mohammad**; Ratnam, C. T.; Michael, F. M.; & Walvekar, R. (2019). Investigating the effects of processing parameters on poly(lactic acid) properties—A central composite design approach. *Plastics, Rubber and Composites*, 48(3), 95–102. doi: 10.1080/14658011.2019.1570444

Khan, A. K.; Mubarak, N. M.; Abdullah, E. C.; **Khalid, Mohammad**; Nizamuddin, S.; Baloch, H. A.; & Siddiqui, M. T. H. (2019). Immobilization of lipase enzyme carbon nanotubes via adsorption. *IOP Conference Series: Materials Science and Engineering*, 495, 012055. doi: 10.1088/1757-899X/495/1/012055

Khan, F. S. A.; Mubarak, N. M.; **Khalid, Mohammad**; & Abdullah, E. C. (2019). Functionalized carbon nanomaterial for artificial bone replacement as filler material. In Inamuddin, S. Thomas, R. Kumar Mishra, & A. M. Asiri (Eds.), *Sustainable Polymer Composites and Nanocomposites* (pp. 783–804). Springer. doi: 10.1007/978-3-030-05399-4_27

Lau, Y. J.; Khan, F. S. A.; Mubarak, N. M.; Lau, S. Y.; Chua, H. B.; **Khalid, Mohammad**; & Abdullah, E. C. (2019). Functionalized carbon nanomaterials for wastewater treatment. In S. Thomas, Y. Grohens, & Y. B. Pottahara (Eds.), *Industrial Applications of Nanomaterials* (pp. 283–311). Elsevier. doi: 10.1016/B978-0-12-815749-7.00010-4

Lau, Y. J.; Lau, S. Y.; Mubarak, N. M.; Chua, H. B.; Pan, S.; Danquah, M. K.; Abdullah, E. C.; & **Khalid, Mohammad**. (2019). An overview of immobilized enzyme technologies for dye and phenolic removal from wastewater. *Journal of Environmental Chemical Engineering*, 7(2), 102961. doi: 10.1016/j.jece.2019.102961

Lau, Y. J.; Lau, S. Y.; Mubarak, N. M.; Yeo, K. S.; **Khalid, Mohammad**; & Chua, H. B. (2019). Comparison of drying method on acid-functionalized multi-walled carbon nanotube and their application for dye removal. *IOP Conference Series: Materials Science and Engineering*, 495, 012057. doi: 10.1088/1757-899X/495/1/012057

Lau, Y. J.; Mubarak, N. M.; Lau, S. Y.; Chua, H. B.; **Khalid, Mohammad**; **Jagadish, Priyanka**; & Abdullah, E. C. (2019). Immobilization of peroxidase on functionalized MWCNTs-buckypaper/polyvinyl alcohol nanocomposite membrane. *Scientific Reports*, 9, 2215. doi: 10.1038/s41598-019-39621-4

Mahesh, V.; Zahari, A.; Walvekar, R.; **Khalid, Mohammad**; & **Jagadish, Priyanka**. (2019). Synthesis and characterization of hybrid graphene oxide/gold nanoparticle. *AIP Conference Proceedings*, 2137, 020009. doi: 10.1063/1.5120985

Magendran, S. S.; Khan, F. S. A.; Mubarak, N. M.; **Khalid, Mohammad**; Walvekar, R.; Abdullah, E. C.; Nizamuddin, S.; & Karri, R. R. (2019). Synthesis of organic phase change materials by using carbon nanotubes as filler material. *Nano-Structures & Nano-Objects*, 19, 100361. doi: 10.1016/j.nanoso.2019.100361

Magendran, S. S.; Khan, F. S. A.; Mubarak, N. M.; Vaka, M.; Walvekar, R.; **Khalid, Mohammad**; Abdullah, E. C.; Nizamuddin, S.; & Karri, R. R. (2019). Synthesis of organic phase change materials (PCM) for energy storage applications: A review. *Nano-Structures & Nano-Objects*, 20, 100399. doi: 10.1016/j.nanoso.2019.100399

Meera Mydin, N. M.; Mubarak, N. M.; Nizamuddin, S.; Siddiqui, M. T. H.; Baloch, H. A.; Abdullah, E. C.; & **Khalid, Mohammad**. (2019). Multiwall carbon nanotube promising route for removal of chromium from wastewater via batch column mechanism. *IOP Conference Series: Materials Science and Engineering*, 495, 012061. doi: 10.1088/1757-899X/495/1/012061

Pakalapati, H.; Arumugasamy, S. K.; & **Khalid, Mohammad**. (2019). Comparison of response surface methodology and feedforward neural network modeling for polycaprolactone synthesis using enzymatic polymerization. *Biocatalysis and Agricultural Biotechnology*, 18, 101046. doi: 10.1016/j.bcab.2019.101046

Pillai, P.; Dharaskar, S.; Sasikumar, S.; & **Khalid, Mohammad**. (2019). Zeolitic imidazolate framework-8 nanoparticle: A promising adsorbent for effective fluoride removal from aqueous solution. *Applied Water Science*, 9, 150. doi: 10.1007/s13201-019-1030-9

Pillai, P.; Lakhtaria, Y.; Dharaskar, S.; & **Khalid, Mohammad**. (2019). Synthesis, characterization, and application of iron oxyhydroxide coated with rice husk for fluoride removal from aqueous media. *Environmental Science and Pollution Research*, 27, 20606–2062. doi: 10.1007/s11356-019-05948-8

Quah, R. V.; Tan, Y. H.; Mubarak, N. M.; **Khalid, Mohammad**; Abdullah, E. C.; & Nolasco-Hipolito, C. (2019). An overview of biodiesel production using recyclable biomass and non-biomass derived magnetic catalysts. *Journal of Environmental Chemical Engineering*, 7(4), 103219. doi: 10.1016/j.jece.2019.103219

Rashidi, S.; Abdullah, L. C.; Walvekar, R.; **Khalid, Mohammad**; Fakhurul-Razi, A.; & Faizah, M. Y. (2019). Stability enhancement of MWCNT/water nanofluids using PVA surfactant. *International Journal of Nanotechnology*, 16(No. 11/12). doi: 10.1504/IJNT.2019.107357

Rashmi, W.; Osama, M.; **Khalid, Mohammad**; **Rasheed, Abdul Khaliq**; Bhaumik, S.; Wong, W. Y.; Datta, S.; & Gupta, T. C. S. M. (2019). Tribological performance of nanographite-based metalworking fluid and parametric investigation using artificial neural network. *The International Journal of Advanced Manufacturing Technology*, 104, 359–374. doi: 10.1007/s00170-019-03701-6

Raviadaran, R.; Ng, M. H.; Manickam, S.; & **Chandran, Davannendran**. (2019). Ultrasound-assisted water-in-palm oil nano-emulsion: Influence of polyglycerol polyricinoleate and NaCl on its stability. *Ultrasonics Sonochemistry*, 52, 353–363. doi: 10.1016/j.ultsonch.2018.12.012

Ruthiraan, M.; Mubarak, N. M.; Abdullah, E. C.; **Khalid, Mohammad**; Nizamuddin, S.; Walvekar, R.; & Karri, R. R. (2019). An overview of magnetic material: Preparation and adsorption removal of heavy metals from wastewater. In K. A. Abd-Elsalam, M. A. Mohamed, & R. Prasad (Eds.), *Magnetic Nanostructures (Nanotechnology in the Life Sciences)* (pp. 131–159). Springer. doi: 10.1007/978-3-030-16439-3_8

Saputra, R.; Walvekar, R.; Jayaweera, U.; & **Khalid, Mohammad**. (2019). Dilution and $ZnCl_2$ impact on eutectic solvents as devulcanizing reagent in de-linking phenomena of waste ground rubber tire. *AIP Conference Proceedings*, 2137, 020013. doi: 10.1063/1.5120989

Saputra, R.; Walvekar, R.; **Khalid, Mohammad**; Shahbaz, K.; & Ramarad, S. (2019). Effective devulcanization of ground tire rubber using choline chloride-based deep eutectic solvents. *Journal of Environmental Chemical Engineering*, 7, 103151. doi: 10.1016/j.jece.2019.103151

Semat, J. M.; Walvekar, R.; Mahesh, V.; **Khalid, Mohammad**; & **Jagadish, Priyanka**. (2019). Synthesis of crumpled graphene by fast cooling method. *AIP Conference Proceedings*, 2137, 020014. doi: 10.1063/1.5120990

Shahid, M. M.; Rameshkumar, P.; **Arshid, Numan**; **Shahabuddin, Syed**; Alizadeh, M.; Khiew, P. S.; & Wee, S. C. (2019). A cobalt oxide nanocubes interleaved reduced graphene oxide nanocomposite modified glassy carbon electrode for amperometric detection of serotonin. *Materials Science and Engineering: C*, 100, 388–395. doi: 10.1016/j.msec.2019.02.107

Wong, C. Y.; Wong, W. Y.; Ramya, K.; **Khalid, Mohammad**; Loh, K. S.; Daud, W. R. W.; Lim, K. L.; Walvekar, R.; & Kadhum, A. A. H. (2019). Additives in proton exchange membranes for low- and high-temperature fuel cell applications: A review. *International Journal of Hydrogen Energy*, 44(12), 6116–6135. doi: 10.1016/j.ijhydene.2019.01.084

Yee, M. J.; Mubarak, N. M.; Abdullah, E. C.; **Khalid, Mohammad**; Walvekar, R.; Karri, R. R.; Nizamuddin, S.; & Arshid, Numan. (2019). Carbon nanomaterials based films for strain sensing application—A review. *Nano-Structures & Nano-Objects*, 18, 100312. doi: 10.1016/j.nanoso.2019.100312

SUNWAY UNIVERSITY BUSINESS SCHOOL

Department of Accounting

Foo, Yin Fah; Yap, Caroline Yu Li; Mohd Sidik, Vivi Norazlina; & Wong, Wing Tien (Eds.) (2019). *Accounting for Business*. Oxford Fajar. ISBN: 9789834729790

Ho, Wai Kee. (2019). Accounting for companies. In **Y. F. Foo, C. Y. L. Yap, V. N. Mohd Sidik, & W. T. Wong** (Eds.), *Accounting for Business*. Oxford Fajar. ISBN: 9789834729790

Kim, W.; **Ko, Young Kyung**; & Wang, S. F. (2019). Debt restructuring through equity issues. *Journal of Banking & Finance*, 106, 341–356. doi: 10.1016/j.jbankfin.2019.07.002

Ko, Young Kyung. (2019). Why do family firms pay cash dividends in emerging markets? Corporate control and family succession in Korea. *Journal of Reviews on Global Economics*, 8, 275–290. https://www.lifescienceglobal.com/pms/index.php/jrge/article/view/5820/pdf_15

Leow, Serena Wai Yee; Leow, K.; & Wong, Evelyn Mei Ling. (2019). Collectivistic coping styles and mental well-being of college students in Malaysia. *Psychology and Education Journal*, 56(3–4), 24–32. <http://www.psychologyandeducation.net/pae/category/volume-56-no-3-4-fall-winter-2019/>

Mohd Sidik, Vivi Norazlina. (2019). Accounting and business. In **Y. F. Foo., C. Y. L. Yap, V. N. Mohd Sidik, & W. T. Wong** (Eds.), *Accounting for Business*. Oxford Fajar. ISBN: 9789834729790

Ng, Shir Li. (2019). The system of accounting. In **Y. F. Foo, C. Y. L. Yap, V. N. Mohd Sidik, & W. T. Wong** (Eds.), *Accounting for Business*. Oxford Fajar. ISBN: 9789834729790

Singh, Jaspal; Sadiq, M.; & Kaur, K. (2019). Integrated reporting: Challenges, benefits and the research agenda. *International Journal of Innovation, Creativity and Change*, 7(8), 1–16. https://www.ijicc.net/images/vol7iss8/7801_Singh_2019_E_R.pdf

Wong, Evelyn Mei Ling; Yap, Caroline Yu Li; & Md Deni, Ann Rosnida. (2019). Promoting student engagement using flipped classroom in large introductory financial accounting class. In *ICEEL 2019: Proceedings of the 2019 3rd International Conference on Education and E-Learning* (pp. 61–66). Association for Computing Machinery. doi: 10.1145/3371647.3371658

Wong, Wing Tien. (2019). Accounting for property, plant and equipment. In **Y. F. Foo, C. Y. L. Yap, V. N. Mohd Sidik, & W. T. Wong** (Eds.), *Accounting for Business*. Oxford Fajar. ISBN: 9789834729790

Department of Business Analytics

Dawi, Norazryana Mat. (2019). Factors influencing consumers intention to use QR code mobile payment—A proposed framework. *International Journal of Recent Technology and Engineering*, 8(2S), 114–120. <https://www.ijrte.org/wp-content/uploads/papers/v8i2S/B10170782S19.pdf>

Dawi, Norazryana Mat; & Jalil, Nasir Abdul. (2019). Integrated model for smartwatch adoption. In *AISS '19: Proceedings of the International Conference on Advanced Information Science and System* (Article No. 8, pp. 1–7). Association for Computing Machinery. doi: 10.1145/3373477.3373485

Donzia, S. K. Y.; Kim, H. K.; & **Hwang, Ha Jin.** (2019). A software model for precision agriculture framework based on smart farming system and application of IoT gateway. In R. Lee (Ed.), *Computational Science/Intelligence & Applied Informatics. CSII 2018. Studies in Computational Intelligence* (Vol. 787, pp. 49–58). Springer. doi: 10.1007/978-3-319-96806-3_4

Jalil, Nasir Abdul; & Hwang, Ha Jin. (2019). Technological-centric business intelligence: Critical success factors. *International Journal of Innovation, Creativity and Change*, 5(2) 1499–1516. https://www.ijicc.net/images/Vol5Iss2_/85_Jalil_PI499_2019R.pdf

Jalil, Nasir Abdul; Hwang, Ha Jin; & Dawi, Norazryana Mat. (2019). Machines learning trends, perspectives and prospects in education sector. *ICEMT 2019: Proceedings of the 2019 3rd International Conference on Education and Multimedia Technology* (pp. 201–205). Association for Computing Machinery. doi: 10.1145/3345120.3345147

Jalil, Nasir Abdul; & Koay, K. Y. (2019). Systems, design and technologies anxieties towards use of self-service checkout. In *ICEEL 2019: Proceedings of the 2019 3rd International Conference on Education and E-Learning* (pp. 122–127). Association for Computing Machinery. doi: 10.1145/3371647.3371664

Jalil, Nasir Abdul; Prapinit, P.; Melan, M.; & Mustafa, A. (2019). Adoption of business intelligence—Technological, individual and supply chain efficiency. *2019 International Conference on Machine Learning, Big Data and Business Intelligence (MLBDBI)*. doi: 10.1109/MLBDBI48998.2019.00021

Manan, N.; **Abu Hasan, Nurhasniza Idham**; Abu Hasan, N.; Jamal, N. F.; & Md Rahidin, N. D. A. (2019). Impact de-tarrification in modelling motor insurance premium in Malaysia. *International Journal of Recent Technology and Engineering*, 8(3), 7394–7400. doi: 10.35940/ijrte.C6148.098319

Nizam, F.; **Hwang, Ha Jin**; & Valaei, N. (2019). Measuring the effectiveness of e-wallet in Malaysia. In R. Lee (Ed.), *Big Data, Cloud Computing, Data Science & Engineering. BCD 2018. Studies in Computational Intelligence* (Vol. 786, pp. 59–69). Springer. doi: 10.1007/978-3-319-96803-2_5

Roespinoedji, D.; Juniati, S.; Hasan, H.; **Jalil, Nasir Abdul**; & Shamsudin, M. F. (2019). Experimenting the long-haul association between components of consuming renewable energy: ARDL method with special reference to Malaysia. *International Journal of Energy Economics and Policy*, 9(6), 453–460. doi: 10.32479/ijeep.8694

Sajilan, S.; Saoula, O.; Issa, M. R.; & **Jalil, Nasir Abdul**. (2019). Exploring the nexus between the environmental investment, environmental performance, and the proactive environmental strategy in a supply chain. *International Journal of Supply Chain Management*, 8(3), 927–940. <https://ojs.excelingtech.co.uk/index.php/IJSCM/article/view/3262>

Tam, Z. Y.; **Hwang, Ha Jin**; & **Jalil, Nasir Abdul**. (2019). Critical success factors for the adoption of cloud computing in Malaysia. In J. Blake, S. J. Miah, D. Kerr, & J. Houghton (Eds.), *Proceedings of the 24th Asia Pacific DSI Conference Program* (pp. 140–148). Asia Pacific Decision Sciences Institute. ISBN: 9781862728066

Valaei, N.; Nikhashemi, S. R.; Bressolles, G.; & **Hwang, Ha Jin**. (2019). A(n) (a)symmetric perspective towards task-technology-performance fit in mobile app industry. *Journal of Enterprise Information Management*, 32(5), 887–912. doi: 10.1108/JEIM-07-2018-0157

Zaini, S. M.; Saoula, O.; Ghani, E. K.; **Jalil, Nasir Abdul**; & Issa, M. R. (2019). Exploring the link between supply chain capability and inter-organizational compatibility: Do inter-organizational information systems (IOIS) integration matter? *International Journal of Supply Chain Management*, 8(3), 902–914. <https://ojs.excelingtech.co.uk/index.php/IJSCM/article/view/3260>

Zaragoza, M. G.; Kim, H. K.; & **Hwang, Ha Jin**. (2019). E-learning adaptation and mobile learning for education. In R. Lee (Ed.), *Applied Computing and Information Technology. ACIT 2018. Studies in Computational Intelligence* (Vol. 788, pp. 27–36). Springer. doi: 10.1007/978-3-319-98370-7_3

Department of Economics and Finance

Adachi-Sato, M.; & **Vithessonthi, Chaiporn**. (2019). Corporate debt maturity and future firm performance volatility. *International Review of Economics & Finance*, 60, 216–237. doi: 10.1016/j.iref.2018.11.001

Allah Pitchay, A.; Mohd Thas Thaker, M. A.; Azhar, Z.; Mydin, A. A.; & **Mohd Thas Thaker, Hassanudin**. (2019). Factors persuade individuals' behavioral intention to opt for Islamic bank services: Malaysian depositors' perspective. *Journal of Islamic Marketing*, 11(1), 234–250. doi: 10.1108/JIMA-02-2018-0029

Allah Pitchay, A.; Mohd Thas Thaker, M. A.; **Mohd Thas Thaker, Hassanudin**; & Amin, M. F. (2019). Determining the relative importance of quality factors for crowdfunding platforms. *International Journal of the Analytic Hierarchy Process*, 11(3), 368–388. doi: 10.13033/ijahp.v11i3.667

Allah Pitchay, A.; Mohd Thas Thaker, M. A.; **Mohd Thas Thaker, Hassanudin**; & Khaliq, A. (2019). Literacy of zakah: Case of Malaysia. In *Proceedings of the 1st Kedah International Zakat Conference 2019 (KEIZAC 2019)* (pp. 385–399). Lembaga Zakat Negeri Kedah. ISBN: 9789671712139

Chan, Ling Foon; Bany-Arifin, A. N.; & Md Nasir, A. (2019). Does the method of corporate diversification matter to firm's performance? In W. A. Barnett & B. S. Sergi (Eds.), *Asia-Pacific Contemporary Finance and Development (International Symposia in Economic Theory and Econometrics, Vol. 26)* (pp. 207–233). Emerald Publishing Limited. doi: 10.1108/S1571-038620190000026011

Choong, Pai Wei; & Khalifah, N. A. (2019). Export expansion and production sharing in Malaysian manufacturing. *International Journal of Economics and Management*, 13(1), 37–49. [http://www.ijem.upm.edu.my/vol13no1/3\)%20Export%20Expansion.pdf](http://www.ijem.upm.edu.my/vol13no1/3)%20Export%20Expansion.pdf)

Hashim, M.; Mohamad, A.; & **Sifat, Imtiaz Mohammad**. (2019). The sustainable development consequences of IMF debt vs. capital control: Comparing progress in GPI and GDP terms for Korea and Malaysia. *Journal of Cleaner Production*, 234, 725–742. doi: 10.1016/j.jclepro.2019.06.144

Hussain, H. I.; Ali, A.; **Mohd Thas Thaker, Hassanudin**; & Ali, M. (2019). Firm performance and family related directors: Empirical evidence from an emerging market. *Contemporary Economics*, 13(2), 187–204. doi: 10.5709/ce.1897-9254.307

Hussain, H. I.; Kamarudin, F.; **Mohd Thas Thaker, Hassanudin**; & Salem, M. A. (2019). Artificial neural network to model managerial timing decision: Non-linear evidence of deviation from target leverage. *International Journal of Computational Intelligence Systems*, 12(2), 1282–1294. doi: 10.2991/ijcis.d.191101.002

Lee, KianTek; Ooi, C.A.; & Hooy, C.W. (2019). Corporatediversification, board diversity and stock-price crash risk: Evidence from publicly listed firms in Malaysia. *International Journal of Economics and Management*, 13(2), 273–289. [http://www.ijem.upm.edu.my/vol13no2/1\)%20Corporate%20diversification.pdf](http://www.ijem.upm.edu.my/vol13no2/1)%20Corporate%20diversification.pdf)

Loh, Sophia Soo Fun. (2019). Consumer surplus, producer surplus, and market efficiency. In *Principles of Economics* (pp. 81–94). SJ Learning. ISBN: 9789671344088

Loh, Sophia Soo Fun. (2019). The theory of consumer choice. In *Principles of Economics* (pp. 95–106). SJ Learning. ISBN: 9789671344088

Mitra, Aditi; Gaur, Sanjaya Singh; & Giacosa, E. (2019). Combining organizational change management and organizational ambidexterity using data transformation. *Management Decision*, 57(8), 2069–2091. doi: 10.1108/MD-07-2018-0841

Mohd Thas Thaker, Hassanudin; & Kanan, C. S. (2019). Discussion on Islamic finance and small medium enterprises' financial accessibility. *Al-Iqtishad: Jurnal Ilmu Ekonomi Syariah*, 11(2), 303–340. doi: 10.15408/aiq.v11i1.7343

Mohd Thas Thaker, Hassanudin; & Mohamad, A. (2019). Age of firms and the value of analyst recommendation. *Journal of Business and Economics Review*, 4(2), 90–96. doi: 10.35609/jber.2019.4.2(3)

Mohd Thas Thaker, Hassanudin; & Mohamad, A. (2019). Prioritising disclosures of information in analyst reports using the analytic hierarchy process: Evidence from Malaysia. *International Journal of Business and Systems Research*, 13(1), 77–99. doi: 10.1504/IJBSR.2019.096368

Mohd Thas Thaker, M. A.; Allah Pitchay, A.; **Mohd Thas Thaker, Hassanudin;** & Amin, M. F. (2019). Factors influencing consumers' adoption of Islamic mobile banking services in Malaysia: An approach of partial least squares (PLS). *Journal of Islamic Marketing*, 10(4), 1037–1056. doi: 10.1108/JIMA-04-2018-0065

Mohd Thas Thaker, M. A.; Amin, M. F.; **Mohd Thas Thaker, Hassanudin;** & Allah Pitchay, A. (2019). What keeps Islamic mobile banking customers loyal? *Journal of Islamic Marketing*, 10(2), 525–542. doi: 10.1108/JIMA-08-2017-0090

Mohd Thas Thaker, M. A.; **Mohd Thas Thaker, Hassanudin;** Allah Pitchay, A; & Mohd Israil, K. A. (2019). A proposed integrated zakat-crowdfunding model (IZCM) for effective collection and distribution of zakat fund in Malaysia. *International Journal of Zakat and Islamic Philanthropy*, 1(2), 1–12. http://journal.zakatkedah.com.my/wp-content/uploads/2019/10/vol1_1_9_19.pdf

Mohd Thas Thaker, M. A.; **Mohd Thas Thaker, Hassanudin;** Amin, M. F.; & Allah Pitchay, A. (2019). Electricity consumption and economic growth: A revisit study of their causality in Malaysia. *Etikonomi*, 18(1), 1–12. doi: 10.15408/etk.v18i1.7455

Ng, A.; & **Ariff, Mohamed.** (2019). Does credit rating revision affect the price of a special class of common stock? *Borsa Istanbul Review*, 19, S44–S45. doi: 10.1016/j.bir.2019.02.004

Rifai, A.; Goh, S. K.; & **Wong, Koi Nyen.** (2019). Advancing rural microfinance through local government: Social commitment and financial sustainability in Riau Province of Indonesia. *Journal of Sustainability Science and Management*, 14(6), 117–129. <http://jssm.umt.edu.my/wp-content/uploads/sites/51/2020/05/10.14.6pdf.pdf>

Shahrier, Nur Ain; & Chuah, L. L. (2019). Estimating Malaysia's output gap: Have we closed the gap? *The Singapore Economic Review*, 64(3), 647–674. doi: 10.1142/S0217590817500217

Sifat, Imtiaz Mohammad; & Mohamad, A. (2019). Randomness for asset prices constrained by price limit regimes: A Malaysian case study. *The Journal of Private Equity*, 22(4), 111–144. doi: 10.3905/jpe.2019.22.4.111

Sifat, Imtiaz Mohammad; Mohamad, A.; & Hamid, Z. (2019). Aberrant investor participation amid substantial price swings: High-frequency evidence of magnet-repellent effect from Malaysia. *Macroeconomics and Finance in Emerging Market Economies*, 12(1), 71–94. doi: 10.1080/17520843.2019.1567567

Sifat, Imtiaz Mohammad; Mohamad, A.; & Mohamed Shariff, M. S. (2019). Lead-lag relationship between Bitcoin and Ethereum: Evidence from hourly and daily data. *Research in International Business and Finance*, 50, 306–321. doi: 10.1016/j.ribaf.2019.06.012

Sitanggang, R. P.; Karbhari, Y.; Maternilola, B. T.; & **Ariff, Mohamed.** (2019). Audit quality and real earnings management: Evidence from the UK manufacturing sector. *International Journal of Managerial Finance*, 16(2), 165–181. doi: 10.1108/IJMF-03-2018-0095

Sun, Poi Hun; & Lee, Sek Yan. (2019). Outcome-based education— Comfort and hardship? In *Proceedings of Teaching and Learning Innovation Festival 2019 (TLIF 2019)* (pp. 13–14). UTP Press. ISBN: 9789672048206. <http://press.utp.edu.my/index.php/product/tlif/>

Tahmoorespour, R.; **Ariff, Mohamed; & Zarei, Alireza.** (2019). Impact of sovereign debt credit rating revision on banking industry: Evidence from G7 countries. *Journal of Central Banking Theory and Practice*, 8(2), 85–100. doi: 10.2478/jcbtp-2019-0015

Wahab, M. A. A.; Mohamad, A.; & **Sifat, Imtiaz Mohammad.** (2019). On contango, backwardation and seasonality in index futures. *The Journal of Private Equity*, 22(2), 69–82. doi: 10.3905/jpe.2019.1.076

Zarei, Alireza. (2019). Comments on money demand in a dollarized economy: Evidence from Laos PDR. *Asian Economic Papers*, 18(1), 116–119. doi: 10.1162/asep_a_00664

Zarei, Alireza; Ariff, Mohamed; & Bhatti, M. I. (2019). The impact of exchange rates on stock market returns: New evidence from seven free-floating currencies. *The European Journal of Finance*, 25(14), 1277–1288. doi: 10.1080/1351847X.2019.1589550

Department of Management

Ahmad, R.; Mahli, F.; **Tehseen, Shehnaz;** Qureshi, Z. H.; & Jannat, U. M. U. (2019). Entrepreneurial intentions among university's students in Malaysia. *2019 13th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS)*. doi: 10.1109/MACS48846.2019.9024788

Alzahrani, A. I.; Mahmud, I.; **Thurasamy, Ramayah**; Alfarraj, O.; & Alalwan, N. (2019). Modelling digital library success using the DeLone and McLean information system success model. *Journal of Librarianship and Information Science*, 51(2), 291–306. doi: 10.1177/0961000617726123

Ahmed, J. U.; **Uddin, Mohammad Jasim**; Ahmed, K. U.; & Al-Amin, M. (2019). Application of structuration theory in the context of ICT: The case of DESH microfinance in Bangladesh. *International Journal of Business Continuity and Risk Management*, 9(3), 187–198. doi: 10.1504/IJBCRM.2019.100406

Anthony, Mary; & Soontiens, W. (2019). Reality checks for career women: An interpretivist paradigm. *Journal of Management & Organization*. doi: 10.1017/jmo.2019.42

Azmat, F.; **Fujimoto, Yuka**; & Subramaniam, N. (2019). Revisiting the concept of shared value in developing countries: Towards an organisational framework. *Social Business*, 9(3), 205–226. doi: 10.1362/204440819X15633617555867

Fujimoto, Yuka; Azmat, F.; & Subramaniam, N. (2019). Creating community-inclusive organizations: Managerial accountability framework. *Business & Society*, 58(4), 712–748. doi: 10.1177/0007650316680060

Halim, H. A.; Ahmad, N. H.; & **Thurasamy, Ramayah**. (2019). Sustaining the innovation culture in SMEs: The importance of organisational culture, organisational learning and market orientation. *Asian Journal of Business Research*, 9(2), 14–33. doi: 10.14707/ajbr.190059

Hiung, H. F.; **Tehseen, Shehnaz**; Sajilan, S.; & **Memari, Ashkan**. (2019). Learning competency, entrepreneurial orientation entrepreneurial innovativeness, and business growth: A study among Malaysian Chinese entrepreneurs. *2019 13th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS)*. doi: 10.1109/MACS48846.2019.9024797

Islam, S.; Shi, Y.; Ahmed, J. U.; & **Uddin, Mohammad Jasim**. (2019). Minimization of empty container truck trips: Insights into truck-sharing constraints. *The International Journal of Logistics Management*, 30(2), 641–662. doi: 10.1108/IJLM-08-2018-0191

Kin, W. K.; Anjam, M.; Mughal, S. A.; & **Toh, Seong Yuen**. (2019). Does market turbulence moderate the impact of relationship competency on small retail firm's performances: A study on small retail businesses among Malaysian Chinese entrepreneurs. *2019 13th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS)*. doi: 10.1109/MACS48846.2019.9024816

Koon, Vui Yee. (2019). Appraising human resources. In *Human Resource Management* (pp. 111–142). SJ Learning. ISBN: 978-967-13440-9-5

Koon, Vui Yee; & Tee, Y. H. (2019). When does ostracism lead to turnover intention? The moderated mediation model of job stress and job autonomy. *IIMB Management Review*. doi: 10.1016/j.iimb.2019.10.007

Kwok, Andrei Onn Jui; French, J.; & Koh, S. G. M. (2019). International joint-venture strategy: An SME's expansion into the halal global market. *Journal of International Business Education*, 14, 343–354. <https://www.neilsonjournals.com/IJIBE/abstractjibe14jhicase.html>

Kwok, Andrei Onn Jui; & Koh, S. G. M. (2019). Is blockchain technology a watershed for tourism development? *Current Issues in Tourism*, 22(20), 2447–2452. doi: 10.1080/13683500.2018.1513460

Leong, K. S.; Sheikh Khairuddin, S. M. H.; **Tehseen, Shehnaz;** & **Yeong, Hui Yan.** (2019). The influence of knowledge-based HRM practices on productivity of knowledge workers: A study on Malaysian universities. *2019 13th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS)*. doi: 10.1109/MACS48846.2019.9024787

Mahmoud, A. B.; Grigoriou, N.; Fuxman, L.; Hack-Polay, D.; Mahmoud, F. B.; Yafi, E.; & **Tehseen, Shehnaz.** (2019). Email is evil!: Behavioural responses towards permission-based direct email marketing and gender differences. *Journal of Research in Interactive Marketing*, 13(2), 227–248. doi: 10.1108/JRIM-09-2018-0112

Rather, R. A.; **Tehseen, Shehnaz;** Itoo, M. H.; & Parrey, S. H. (2019). Customer brand identification, affective commitment, customer satisfaction, and brand trust as antecedents of customer behavioral intention of loyalty: An empirical study in the hospitality sector. *Journal of Global Scholars of Marketing Science*, 29(2), 196–217. doi: 10.1080/21639159.2019.1577694

Razzaq, S.; Shujahat, M.; Hussain, S.; Nawaz, F.; Wang, M.; Ali, M.; & **Tehseen, Shehnaz.** (2019). Knowledge management, organizational commitment and knowledge-worker performance: The neglected role of knowledge management in the public sector. *Business Process Management Journal*, 25(5), 923–947. doi: 10.1108/BPMJ-03-2018-0079

Sadeghifam, A. N.; Meynagh, M. M.; Tabatabaee, S.; Mahdiyar, A.; **Memari, Ashkan**; & Ismail, S. (2019). Assessment of the building components in the energy efficient design of tropical residential buildings: An application of BIM and statistical Taguchi method. *Energy*, *188*, 116080. doi: 10.1016/j.energy.2019.116080

Sajilan, S.; & **Tehseen, Shehnaz**. (2019). Network competence and firm performance: The mediating role of entrepreneurial innovativeness among Malaysian Chinese entrepreneurs of wholesale businesses. *Asian Academic of Management Journal*, *24*(Suppl. 1), 187–201. doi: 10.21315/aamj2019.24.sl.13

Sajilan, S.; **Tehseen, Shehnaz**; Yafi, E.; & Ting, X. (2019). Impact of Facebook usage on firm's performances among Malaysian Chinese retailers. *Global Business & Finance Review*, *24*(4), 45–62. doi: 10.17549/gbfr.2019.24.4.45

Sheikh Khairuddin, S. M. H.; Qureshi, Z. H.; Wahid, R. A.; **Tehseen, Shehnaz**; Pathan, Z. H.; & Khan, M. R. (2019). A conceptual study on contingent impact of external integration on innovation SME business success relationship. *International Journal of Financial Research*, *10*(5), 370–380. doi: 10.5430/ijfr.v10n5p370

Sujata, M.; **Khor, Kuan Siew**; **Thurasamy, Ramayah**; & Teoh, A. P. (2019). The role of social media on recycling behaviour. *Sustainable Production and Consumption*, *20*, 365–374. doi: 10.1016/j.spc.2019.08.005

Tan, C. K.; **Thurasamy, Ramayah**; Teoh, A. P.; & Cheah, J. H. (2019). Factors influencing virtual team performance in Malaysia. *Kybernetes*, *48*(9), 2065–2092. doi: 10.1108/K-01-2018-0031

Tehseen, Shehnaz; Ahmed, F. U.; Qureshi, Z. H.; **Uddin, Mohammad Jasim;** & **Thurasamy, Ramayah.** (2019). Entrepreneurial competencies and SMEs' growth: The mediating role of network competence. *Asia-Pacific Journal of Business Administration*, 11(1), 2–29. doi: 10.1108/APJBA-05-2018-0084

Tehseen, Shehnaz; Mughal, S. A.; Durst, S.; Shujahat, M.; Qureshi, Z. H.; & Kokkalis, P. (2019). Composition-based view of the firm as a promising approach to studying small businesses. *Production*, 29. doi: 10.1590/0103-6513.20180022

Tehseen, Shehnaz; Qureshi, Z. H.; Johara, F.; & **Thurasamy, Ramayah.** (2019). Assessing perceived business success as a reflective-formative (Type II) second-order construct using PLS-SEM approach. *Journal of Sustainability Science and Management*, 14(5), 84–114. <http://jssm.umt.edu.my/wp-content/uploads/sites/51/2020/05/7.14.5pdf.pdf>

Tehseen, Shehnaz; Yafi, E.; Sajilan, S.; Rehman, H. U.; & Butt, S. M. (2019). Does ICT based network competence mediate strategic competency's impact on SMEs' competitive advantage? An empirical evidence from Malaysian manufacturing SMEs. *International Journal of Entrepreneurship*, 23(2). <https://www.abacademies.org/articles/does-ict-based-network-competence-mediate-strategic-competencys-impact-on-smes-competitive-advantage-an-empirical-evidence-from-mal-8095.html>

Toh, Seong Yuen; Cheok, Jason; & Mughal, S. A. (2019). Reciprocal fit concept in mission statement research. *2019 13th International Conference on Mathematics, Actuarial Science, Computer Science and Statistics (MACS)*. doi: 10.1109/MACS48846.2019.9024790

Uddin, Mohammad Jasim; Hossain, F.; **Fujimoto, Yuka;** & Ahmed, J. U. (2019). Do public sector organizations ensure labor ethics? Perspectives from ethics and workplace spirituality in Bangladesh's garment sector. *Public Administration and Development*. doi: 10.1002/pad.1874

Fujimoto, Yuka; & **Uddin, Mohammad Jasim.** (2019). Social entrepreneurial inclusion. *Academy of Management Annual Meeting Proceedings, 2019(1)*. doi: 10.5465/AMBPP.2019.11159abstract

Department of Marketing

Ahmad, A. H.; **Idris, Izian;** Manson, C.; & Chow, S. K. (2019). The impact of young celebrity endorsements in social media advertisements and brand image towards the purchase intention of young consumers. *International Journal of Financial Research, 10(5)*, 54–65. doi: 10.5430/ijfr.v10n5p54

Ahmad, A. H.; **Idris, Izian;** & Moy, R. L. J. (2019). The effects of self-esteem and influence of friends via social media on body image amongst children. *International Journal of Financial Research, 10(5)*, 40–53. doi: 10.5430/ijfr.v10n5p40

Al Ahabbi, S. A.; Singh, S. K.; Balasubramanian, S.; & **Gaur, Sanjaya Singh.** (2019). Employee perception of impact of knowledge management processes on public sector performance. *Journal of Knowledge Management, 23(2)*, 351–373. doi: 10.1108/JKM-08-2017-0348

Anand, I. M.; & **Gaur, Sanjaya Singh.** (2019). Consequences of consumers' emotional responses to government's green initiatives: Insights from a scenario-based experimental study. *Management of Environmental Quality, 30(1)*, 243–259. doi: 10.1108/MEQ-02-2018-0045

Cheng, Boon Liat; Cham, T. H.; **Dent, Michael M.;** & Lee, T. H. (2019). Service innovation: Building a sustainable competitive advantage in higher education. *International Journal of Services, Economics and Management*, 10(4), 289–309. doi: 10.1504/IJSEM.2019.105014

Cheng, Boon Liat; Enriquez, B. B., Jr.; Thomborrow, T.; & Manson, S. (2019). Application of the theory of planned behaviour to green hotel visit intention: An extension of self-identity. *Journal of Marketing Advances and Practices*, 1(1), 1–21. <http://jmaap.org/wp-content/uploads/2019/01/1-Application-of-the-Theory-on-Planned-Behaviour-to-Green-Hotel-Visit-Intention-An-Extension-of-Self-Identity-JMAP-201911.pdf>

Cheng, Boon Liat; **Gan, Chin Chuan;** Imrie, B. C.; & Mansori, S. (2019). Service recovery, customer satisfaction and customer loyalty: evidence from Malaysia's hotel industry. *International Journal of Quality and Service Sciences*, 11(2), 187–203. doi: 10.1108/IJQSS-09-2017-0081

Cheng, Boon Liat; Low, Y. L.; & **Dent, Michael M.** (2019). Factors contributing toward dietary supplement consumption. In J. E. Richard & D. Kadirov (Eds.), *2019 ANZMAC Conference Proceedings* (pp. 367–370). Victoria University of Wellington. <https://confer.nz/anzmac2019/wp-content/uploads/2020/03/ANZMAC-2019-Final-Proceedings-23.03.2020.pdf>

Idris, Izian. (2019, January). Let's make learning enjoyable—New ways to engage students in classroom. *The Edge Malaysia*. <https://digital.theedgemaalaysia.com/theedgemediagroup/newsstand/title/tem>

Idris, Izian. (2019, July). Older adults in advertisements ... Are they visible? *The Edge Malaysia*. <https://digital.theedgemaalaysia.com/theedgemediagroup/newsstand/title/tem>

Idris, Izian; Alias, Siti Suhana; Lim, S. K. X.; & Ahmad, A. (2019). Factors that influence the effectiveness of online advertising in enhancing consumer's purchase intention among young adults in Malaysia. In *Proceedings of the 24th World Conference on Applied Science, Engineering and Technology (24th WCASET)* (p. 70). Institute for Engineering Research and Publication. ISBN: 9789389107326

Jahari, Siti Aqilah; Khalid, P. A.; & Chew, Y. T. (2019). Understanding consumer's decision making process: New insights from constraints negotiation theory. In K. Cutright, J. A. Mourey, & R. Peres (Eds.), *2019 AMA Summer Academic Conference Proceedings* (Vol. 30, pp. CO3-4–CO3-5). American Marketing Association. ISBN: 9780877570059. <https://www.ama.org/wp-content/uploads/2019/11/2019-Summer-AMA-Proceedings.pdf>

Kaur, Simran; Ahmed, P. K.; Chong, Y. S.; & Ali, Y. (2019). Brand recovery in the context of sacred consumption: An institutional perspective. In K. Cutright, J. A. Mourey, & R. Peres (Eds.), *2019 AMA Summer Academic Conference Proceedings* (Vol. 30, pp. CO3-54–CO3-55). American Marketing Association. ISBN: 9780877570059. <https://www.ama.org/wp-content/uploads/2019/11/2019-Summer-AMA-Proceedings.pdf>

Khoo, K. L.; **Ong, Derek Lai Teik;** & **Teoh, Chai Wen.** (2019). Influence of voice assistants on consumer well-being? In J. E. Richard & D. Kadirov (Eds.), *2019 ANZMAC Conference Proceedings* (pp. 532–536). Victoria University of Wellington. <https://confer.nz/anzmac2019/wp-content/uploads/2020/03/ANZMAC-2019-Final-Proceedings-23.03.2020.pdf>

Koay, Kian Yeik; Ong, Derek Lai Teik; Khoo, K. L.; & Yeoh, H. J. (2019). Social media marketing activities on brand equity. In J. E. Richard & D. Kadirov (Eds.), *2019 ANZMAC Conference Proceedings* (pp. 542–546). Victoria University of Wellington. <https://confer.nz/anzmac2019/wp-content/uploads/2020/03/ANZMAC-2019-Final-Proceedings-23.03.2020.pdf>

Loh, Huey See; Gaur, Sanjaya Singh; & Lim, R. J. H. (2019). Childhood brand nostalgia, perceived self-continuity and brand loyalty. *Journal of Emerging Trends in Marketing and Management*, *1*(1), 52–62. <http://www.etimm.ase.ro/?p=364>

Mat Amin, N.; & **Ong, Derek Lai Teik.** (2019). Investigation of intrinsic and extrinsic marketing communication motivation in meeting the needs attainment of Malaysian commercial fitness centers for member retention amongst millennials. In K. Cutright, J. A. Mourey, & R. Peres (Eds.), *2019 AMA Summer Academic Conference Proceedings* (Vol. 30, pp. AOP-14–AOP-15). American Marketing Association. ISBN: 9780877570059. <https://www.ama.org/wp-content/uploads/2019/11/2019-Summer-AMA-Proceedings.pdf>

Mitra, Aditi; Gaur, Sanjaya Singh; & Giacosa, E. (2019). Combining organizational change management and organizational ambidexterity using data transformation. *Management Decision*, *57*(8), 2069–2091. doi: 10.1108/MD-07-2018-0841

Ong, Derek Lai Teik; Andrews, E.; & Wong, N. H. L. (2019). Inadequacy of impactful HIV social marketing messages. In J. E. Richard & D. Kadirov (Eds.), *2019 ANZMAC Conference Proceedings* (pp. 1177–1181). Victoria University of Wellington. <https://confer.nz/anzmac2019/wp-content/uploads/2020/03/ANZMAC-2019-Final-Proceedings-23.03.2020.pdf>

Pandoi, D.; **Gaur, Sanjaya Singh**; & Gupta, A. K. (2019). Role of virtues in the relationship between shame and tendency to plagiarise: Study in the context of higher education. *International Journal of Educational Management*, 33(1), 66–85. doi: 10.1108/IJEM-02-2018-0074

Sadrolhosseini, A. R.; Rashid, S. A.; Shafie, S.; & **Nezakati, Hossein**. (2019). Laser ablation synthesis of gold nanoparticle to enhance the fluorescence properties of graphene quantum dots. *Journal of Laser Applications*, 31(2), 022006. doi: 10.2351/1.5046062

Soon, Pei Shan; Gaur, Sanjaya Singh; & Ho, Jessica Sze Yin. (2019). Role of emotions in consumer adoption of augmented reality for purchase decision. In K. Cutright, J. A. Mourey, & R. Peres (Eds.), *2019 AMA Summer Academic Conference Proceedings* (Vol. 30, pp. DWO-75–DWO-76). American Marketing Association. ISBN: 9780877570059. <https://www.ama.org/wp-content/uploads/2019/11/2019-Summer-AMA-Proceedings.pdf>

Teoh, Chai Wen; & Gaur, Sanjaya Singh. (2019). Environmental concern: An issue for poor or rich. *Management of Environmental Quality*, 30(1), 227–242. doi: 10.1108/MEQ-02-2018-0046

Teoh, Chai Wen; & Leong, K. S. (2019). The impact of social media marketing on customer relationships and purchase intention. In K. Cutright, J. A. Mourey, & R. Peres (Eds.), *2019 AMA Summer Academic Conference Proceedings* (Vol. 30, pp. DWO-50–DWO-51). American Marketing Association. ISBN: 9780877570059. <https://www.ama.org/wp-content/uploads/2019/11/2019-Summer-AMA-Proceedings.pdf>

Toh, Evelyn; Idris, Izian; & Dent, Michael M. (2019). Advertising media vehicles in retailing. In J. E. Richard & D. Kadirov (Eds.), *2019 ANZMAC Conference Proceedings* (pp. 281–284). Victoria University of Wellington. <https://confer.nz/anzmac2019/wp-content/uploads/2020/03/ANZMAC-2019-Final-Proceedings-23.03.2020.pdf>

Centre for Commercial Law and Justice

Gogulanathan, Sri Bala Murugan. (2019). The doctrine of substantial performance: comparisons between English and Malaysian law. *Commonwealth Law Bulletin*, *44*(3), 318–337. doi: 10.1080/03050718.2019.1644186

Yaacob, S. N.; **Fam, Jia Yuin**; Hasbullah, M.; Arshat, Z.; & Juhari, R. (2019). Negative life events and mental health problem: The importance of coping strategy. *Pertanika Journal of Social Sciences & Humanities*, *27*(S1), 77–87. [http://www.pertanika.upm.edu.my/Pertanika%20PAPERS/JSSH%20Vol.%2027%20\(S1\).%202019/06%20JSSH\(S\)-0963-2018.pdf](http://www.pertanika.upm.edu.my/Pertanika%20PAPERS/JSSH%20Vol.%2027%20(S1).%202019/06%20JSSH(S)-0963-2018.pdf)

SCHOOL OF INTERDISCIPLINARY STUDIES

Center for American Education

Anwar, Ayaz; Masri, A.; Rao, K.; Rajendran, Kavitha; Khan, Naveed Ahmed; Shah, M. R.; & Siddiqui, Ruqaiyyah. (2019). Antimicrobial activities of green synthesized gums-stabilized nanoparticles loaded with flavonoids. *Scientific Reports*, 9, 3122. doi: 10.1038/s41598-019-39528-0

Anwar, Ayaz; Rajendran, Kavitha; Siddiqui, Ruqaiyyah; Shah, M. R.; & Khan, Naveed Ahmed. (2019). Clinically approved drugs against CNS diseases as potential therapeutic agents to target brain-eating amoebae. *ACS Chemical Neuroscience*, 10(1), 658–666. doi: 10.1021/acscemneuro.8b00484

Liew, Khang Jie; Tee, K. J.; Ramli, A.; & Ong, W. E. (2019). Integrating clustering method in compactly supported radial basis function for surface approximation. *IAENG International Journal of Computer Science*, 46(1), 38–45. <http://www.iaeng.org/IJCS/index.html>

Naidu, Dewika; Rashid, M.; Khairuninisa, M. P.; Ruwaida, J.; & Sara, Y. Y. (2019). Reduction of PM10 emission from a retrofitted multicyclone. *IOP Conference Series: Materials Science and Engineering*, 551, 012131. doi: 10.1088/1757-899X/551/1/012131

Sim, Tze Ying; & Lau, Sian Lun. (2019). Online tools to support novice programming: A systematic review. *2018 IEEE Conference on e-Learning, e-Management and e-Services (IC3e)*. doi: 10.1109/IC3e.2018.8632649

Rajendran, Kavitha; Anwar, Ayaz; Khan, Naveed Ahmed; Shah, M. R.; & **Siddiqui, Ruqaiyyah.** (2019). *trans*-Cinnamic acid conjugated gold nanoparticles as potent therapeutics against brain-eating amoeba *Naegleria fowleri*. *ACS Chemical Neuroscience*, *10*(6), 2692–2696. doi: 10.1021/acscemneuro.9b00111

Rajendran, Kavitha; Anwar, Ayaz; Khan, Naveed Ahmed; Aslam, Z.; Shah, M. R.; & **Siddiqui, Ruqaiyyah.** (2019). Oleic acid coated silver nanoparticles showed better in vitro amoebicidal effects against *Naegleria fowleri* than amphotericin B. *ACS Chemical Neuroscience*, *11*(16), 2431–2437. doi: 10.1021/acscemneuro.9b00289

Wong, Shiao Foong; & Mahmud, Malissa Maria. (2019). I can learn Calculus virtually: Personalizing eLearn and Screencast-O-Matic in blended learning environment. In *ICFET 2019: Proceedings of the 5th International Conference on Frontiers of Educational Technologies* (pp. 13–19). Association for Computing Machinery. doi: 10.1145/3338188.3338192

Yong, Wooi Keong. (2019). Factors influencing bank officers into recommending financial products to SME's: A literature review. *International Journal of Innovation and Business Strategy*, *12*(2), 1–26. https://business.utm.my/ijibs/attachments/article/108/IJIBS_12_02_01.pdf

Yong, Wooi Keong; & Md Husin, M. (2019). Should past experience be ignored? An insight from the decomposed theory of planned behavior. *Global Business and Management Research: An International Journal*, *11*(3), 14–18. http://www.gbmrjournal.com/pdf/vol.%2011%20no.%203/V11N3_2.pdf

Centre for English Language Studies

Burkhardt, Jay Lingam; & Burkhardt, J. M. (2019). Developing a unified orthography for Berawan: An endangered Bornean language. *Written Language & Literacy*, 22(2), 280–306. doi: 10.1075/wll.00029.bur

Hall, Stephen J. (2019). Mobile assisted English language learning: The steppes and more. *ELTAM Newsletter*, Autumn 2019, 2–4. <http://eprints.sunway.edu.my/1123/>

Khairuddin, Z.; Ismail, O.; Ahmad Basri, N.; **Mahmud, Malissa Maria;** Abdul Ghafar, N.; & Mohd Ramli, N. F. (2019). *Jom Solat* [Mobile application]. Exhibited at Invention, Innovation & Design Exposition (IIDEX 2019). https://play.google.com/store/apps/details?id=com.kaykujo.jomsolat&hl=en_IN

Lee, S. K.; & **Hall, Stephen J.** (2019). *Manglish: Malaysian English at its Wackiest*. Marshall Cavendish. ISBN 9789814841429

Mahmud, Malissa Maria; Ong, Stella; & Ismail, O. (2019). Aligning the teaching of English Literature in Malaysian context: A narrative review. *Asian Journal of Language, Literature and Culture Studies*, 2(1), 1–10. <https://www.journalajl2c.com/index.php/AJL2C/article/view/30092/56460>

Mahmud, Malissa Maria; Ramachandiran, C. R.; & Ismail, O. (2019). Is ratio even worth experimenting? A conceptual review in a blended ecosystem. *IC4E '19: Proceedings of the 10th International Conference on E-Education, E-Business, E-Management and E-Learning* (pp. 58–62). Association for Computing Machinery. doi: 10.1145/3306500.3306511

Mahmud, Malissa Maria; Yaacob, Yazilmiwati; & Hall, Stephen J. (2019). Key success indicators (KSIs) for blended learning: A pilot test of the coding manuals. *ICIEI 2019: Proceedings of the 2019 4th International Conference on Information and Education Innovations* (pp. 53–57). Association for Computing Machinery. doi: 10.1145/3345094.3345095

Ramachandiran, C. R.; & **Mahmud, Malissa Maria.** (2019). Theorizing communicative styles on social media: An etymological shift. *Journal of Physics: Conference Series*, 1228, 012073. doi: 10.1088/1742-6596/1228/1/012073

Ramachandiran, C. R.; **Mahmud, Malissa Maria;** & Jomhari, N. (2019). A revolutionary approach in virtual learning: Usercentered kansei virtual agent. In *IC4E '19: Proceedings of the 10th International Conference on E-Education, E-Business, E-Management and E-Learning* (pp. 7–11). Association for Computing Machinery. doi: 10.1145/3306500.3306522

Sabri, S.; Ismail, O.; Ahmad Basri, N.; **Mahmud, Malissa Maria;** Abdul Ghafar, N.; & Mohd Ramli, N. F. (2019). *EzUmrah* [Mobile application]. Exhibited at Invention, Innovation & Design Exposition (IIDEX 2019). <https://play.google.com/store/apps/details?id=com.othmanismail.ezumrah>

Wong, Shiau Foong; & Mahmud, Malissa Maria. (2019). I can learn Calculus virtually: Personalizing eLearn and Screencast-O-Matic in blended learning environment. In *ICFET 2019: Proceedings of the 5th International Conference on Frontiers of Educational Technologies* (pp. 13–19). Association for Computing Machinery. doi: 10.1145/3338188.3338192

Yaacob, Yazilmiwati; Mahmud, Malissa Maria; & Wong, S. C. (2019). The impacts of active learning environment on communication skills, thinking and problem solving skills and teamwork skills. In *ICIEI 2019: Proceedings of the 2019 4th International Conference on Information and Education Innovations* (pp. 62–65). Association for Computing Machinery. doi: 10.1145/3345094.3345098

Centre for Higher Education Research

Arulanandam, Benedict Valentine; Crosling, Glenda; & Abdullah, H. (Eds.) (2019). *Innovation and Sustainable Business for Strategic Social Economic Growth*. UPNM Press. ISBN: 9789675985935

Atherton, Graeme; Crosling, Glenda; Shuib, M.; & Azizan, Siti Norbaya. (2019, May). ASEAN countries move forward on internationalisation. *University World News*. <https://www.universityworldnews.com/post.php?story=2019042915353256>

Chuan, T. P.; **Lee, Catherine Cheng Ean; & Lim, S. S.** (2019). Differences in visual-textual platforms, technical-strategic communication & professionalism vs encroachment between Malaysian & American PR practitioners' social media practices. In L. F. Yang (Ed.), *The 6th International SEARCH Conference 2019 Proceedings* (pp. 116–127). ISBN: 9789670173658. <http://search.taylors.edu.my/conference/documents/SEARCH-Confe-Proceeding-2019.pdf>

Crosling, Glenda; Shuib, M.; & Rahman, S. A. (2019). Introduction. In S. A. Rahman, M. Shuib, & **G. Crosling** (Eds), *Creativity in Education*. Penerbit Universiti Sains Malaysia. ISBN: 9789674614003

Ho, M. C.; Cassandra, L.; & **Ooi, Pei Boon**. (2019). Perceived parenting styles and self-esteem among university students in a collectivist culture, Malaysia. *City University eJournal of Academic Research (CUEJAR)*, 1(2), 98–110. https://www.city.edu.my/CUEJAR/pdf/issue2/CUEJAR_2019_1_2_98to110.pdf

Ismail, I.; **Azizan, Siti Norbaya**; & Gunasegaran, T. (2019). The use of SMS in promoting inquisitiveness among distance learners. *Malaysian Journal of Distance Education*, 2(1), 57–81. doi: 10.21315/mjde2019.21.1.4

Khairuddin, Z.; Ismail, O.; Ahmad Basri, N.; **Mahmud, Malissa Maria**; Abdul Ghafar, N.; & Mohd Ramli, N. F. (2019). *Jom Solat* [Mobile application]. Exhibited at Invention, Innovation & Design Exposition (IIDEX 2019). https://play.google.com/store/apps/details?id=com.kaykujo.jomsolat&hl=en_IN

Lee, Angela Siew Hoong; Chong, Ka Leong; & Chan, N. K. W. (2019). OpinionSeer: Text visualization on hotel customer reviews of services and physical environment. In K. Kim & N. Baek (Eds.), *Information Science and Applications 2018. ICISA 2018. Lecture Notes in Electrical Engineering* (Vol. 514, pp. 337–349). Springer. doi: 10.1007/978-981-13-1056-0_35

Lee, Angela Siew Hoong; Kudbuddin, A.; & **Teh, Phoey Lee**. (2019). Data visualisation: World happiness at a glance! In H. Badioze Zaman, A. F. Smeaton, T. K. Shih, S. Velastin, T. Terutoshi, N. M. Ali, & M. N. Ahmad (Eds.), *Advances in Visual Informatics. IVIC 2019. Lecture Notes in Computer Science* (Vol. 11870, pp. 60–70). Springer. doi: 10.1007/978-3-030-34032-2_6

Lee, Angela Siew Hoong; Ng, C.; Zainol, Z.; & Chan, K. W. (2019). Decision tree: Customer churn analysis for a loyalty program using data mining algorithm. In M. W. Berry, B. W. Yap, A. Mohamed, & M. Köppen (Eds.), *Soft Computing in Data Science. SCDS 2019. Communications in Computer and Information Science* (Vol. 1100, pp. 14–27). Springer. doi: 10.1007/978-981-15-0399-3_2

Lee, Angela Siew Hoong; & Passey, D. (2019). Sustaining digital technology use in professional communities. In A. Tatnall (Ed.), *Encyclopedia of Education and Information Technologies*. Springer. doi: 10.1007/978-3-319-60013-0_236-1

Lee, Catherine Cheng Ean. (2019). Facebook use in Malaysian higher education classroom. In A. Tatnall (Ed.), *Encyclopedia of Education and Information Technologies*. Springer. doi: 10.1007/978-3-319-60013-0_141-1

Lee, Catherine Cheng Ean; Leow, Serena Wai Yee; & Kong, X. J. (2019). The use of mobile technologies for learning in higher education: Students' readiness. In L. F. Yang (Ed.), *The 6th International SEARCH Conference 2019 Proceedings* (pp. 152–173). <http://search.taylors.edu.my/conference/documents/SEARCH-Confe-Proceeding-2019.pdf>

Lee, Catherine Cheng Ean; & Siew, E. T. F. (2019). The adoption of Facebook mobile application for managing learning. In *27th International Conference on Computers in Education: Conference Proceedings* (Vol. 1, pp. 484–486). Asia-Pacific Society for Computers in Education. ISBN: 9789869721431

Lim, F. C. B.; **Crosling, Glenda; De Silva, Greeja Hemalata; Cheng, Mien Wee.** (2019). Transnational education and employability: Lessons from a case study of an Australian degree in Malaysia. In R. Coelen & C. Gribble (Eds.), *Internationalization and Employability in Higher Education* (pp. 176–185). Routledge. ISBN: 9780815368342

Mahmud, Malissa Maria; Ong, Stella; & Ismail, O. (2019). Aligning the teaching of English Literature in Malaysian context: A narrative review. *Asian Journal of Language, Literature and Culture Studies*, 2(1), 1–10. <https://www.journalajl2c.com/index.php/AJL2C/article/view/30092/56460>

Mahmud, Malissa Maria; Ramachandiran, C. R.; & Ismail, O. (2019). Is ratio even worth experimenting? A conceptual review in a blended ecosystem. *IC4E '19: Proceedings of the 10th International Conference on E-Education, E-Business, E-Management and E-Learning* (pp. 58–62). Association for Computing Machinery. doi: 10.1145/3306500.3306511

Mahmud, Malissa Maria; Yaacob, Yazilmiwati; & Hall, Stephen J. (2019). Key success indicators (KSIs) for blended learning: A pilot test of the coding manuals. *ICIEI 2019: Proceedings of the 2019 4th International Conference on Information and Education Innovations* (pp. 53–57). Association for Computing Machinery. doi: 10.1145/3345094.3345095

Md Deni, Ann Rosnida; & Arifin, Azrain. (2019). Using padlet for project-based learning in documentary filmmaking. *ICEEL 2019: Proceedings of the 2019 3rd International Conference on Education and E-Learning* (pp. 30–35). doi: 10.1145/3371647.3371648

Md Deni, Ann Rosnida; & Tumar, Annyza. (2019). What happened after the workshop? Exploring academics' integration of technology into practice. *ICERI 2019: Proceedings of the 12th Annual International Conference of Education, Research and Innovation* (pp. 3556–3564). doi: 10.21125/iceri.2019.0918

Ooi, Pei Boon. (2019, April). Using UACI in dealing with your personality preferences. *The Edge Malaysia*. <https://digital.theedgemaalaysia.com/theedgemediagroup/newsstand/title/tem>

Rahman, S. A.; Shuib, M.; & **Crosling, Glenda** (Eds.) (2019). *Creativity in Education*. Penerbit Universiti Sains Malaysia. ISBN: 9789674614003

Rahman, S. A.; Shuib, M.; & **Crosling, Glenda**. (2019). Conclusion. In S. A. Rahman, M. Shuib, & **G. Crosling** (Eds), *Creativity in Education*. Penerbit Universiti Sains Malaysia. ISBN: 9789674614003

Ramachandiran, C. R.; & **Mahmud, Malissa Maria**. (2019). Theorizing communicative styles on social media: An etymological shift. *Journal of Physics: Conference Series*, 1228, 012073. doi: 10.1088/1742-6596/1228/1/012073

Ramachandiran, C. R.; **Mahmud, Malissa Maria**; & Jomhari, N. (2019). A revolutionary approach in virtual learning: Usercentered kansei virtual agent. In *IC4E '19: Proceedings of the 10th International Conference on E-Education, E-Business, E-Management and E-Learning* (pp. 7–11). Association for Computing Machinery. doi: 10.1145/3306500.3306522

Sabri, S.; Ismail, O.; Ahmad Basri, N.; **Mahmud, Malissa Maria**; Abdul Ghafar, N.; & Mohd Ramli, N. F. (2019). *EzUmrh* [Mobile application]. Exhibited at Invention, Innovation & Design Exposition (IIDEX 2019). <https://play.google.com/store/apps/details?id=com.othmanismail.ezumrah>

Wong, Evelyn Mei Ling; Yap, Caroline Yu Li; & Md Deni, Ann Rosnida. (2019). Promoting student engagement using flipped classroom in large introductory financial accounting class. In *ICEEL 2019: Proceedings of the 2019 3rd International Conference on Education and E-Learning* (pp. 61–66). Association for Computing Machinery. doi: 10.1145/3371647.3371658

Wong, Shiau Foong; & Mahmud, Malissa Maria. (2019). I can learn Calculus virtually: Personalizing eLearn and Screencast-O-Matic in blended learning environment. In *ICFET 2019: Proceedings of the 5th International Conference on Frontiers of Educational Technologies* (pp. 13–19). Association for Computing Machinery. doi: 10.1145/3338188.3338192

Yaacob, Yazilmiwati; Mahmud, Malissa Maria; & Wong, S. C. (2019). The impacts of active learning environment on communication skills, thinking and problem solving skills and teamwork skills. In *ICIEI 2019: Proceedings of the 2019 4th International Conference on Information and Education Innovations* (pp. 62–65). Association for Computing Machinery. doi: 10.1145/3345094.3345098

Zainol, Z.; Nohuddin, P. N. E.; Kamarudin, N. D.; **Lee, Angela Siew Hoong;** & Wani, S. (2019). Relationship analysis of formal and experiential learning in military survival skills using text mining. *Defence S and T Technical Bulletin*, 12, 267–280. <http://www.stride.gov.my/v2/ms/info/penerbitan/buletin-teknikal-s-t-pertahanan/294-buletin-teknikal-s-t-pertahanan-jilid-12-bil-2-2019>

Jeffrey Cheah Institute on Southeast Asia

Abdelrazik, A. S.; Al-Sulaiman, F. A.; & **Rahman, Saidur.** (2019). Optical behavior of a water/silver nanofluid and their influence on the performance of a photovoltaic-thermal collector. *Solar Energy Materials and Solar Cells*, 201, 110054. doi: 10.1016/j.solmat.2019.110054

Abdelrazik, A. S.; Al-Sulaiman, F. A.; **Rahman, Saidur**; & Ben-Mansour, R. (2019). Evaluation of the effects of optical filtration and nanoPCM on the performance of a hybrid photovoltaic-thermal solar collector. *Energy Conversion and Management*, 195, 139–156. doi: 10.1016/j.enconman.2019.04.083

Akinpelu, A. A.; Ali, M. E.; Johan, M. R.; **Rahman, Saidur**; Chowdhury, Z. Z.; Shemsi, A. M.; & Saleh, T. A. (2019). Effect of the oxidation process on the molecular interaction of polyaromatic hydrocarbons (PAH) with carbon nanotubes: Adsorption kinetic and isotherm study. *Journal of Molecular Liquids*, 289, 111107. 10.1016/j.molliq.2019.111107

Akinpelu, A. A.; Ali, M. E.; Johan, M. R.; **Rahman, Saidur**; Qurban, M. A.; & Saleh, T. A. (2019). Polycyclic aromatic hydrocarbons extraction and removal from wastewater by carbon nanotubes: A review of the current technologies, challenges and prospects. *Process Safety and Environmental Protection*, 122, 68–82. doi: 10.1016/j.psep.2018.11.006

Alaribe, F. O.; & **Pariatamby, Agamutu**. (2019). *Lantana camara*—An ecological bioindicator plant for decontamination of Pb-impaired soil under organic waste-supplemented scenarios. *Pedosphere*, 29(2), 248–258. doi: 10.1016/S1002-0160(17)60365-5

Arifutzzaman, Rahat; Ismail, A. F.; Alam, M. Z.; Khan, A. A.; & **Rahman, Saidur**. (2019). Investigation of extraction yields of exfoliated graphene in deionized water from organic solvents. *International Journal of Technology*, 10(6), 1251–1259. doi: 10.14716/ijtech.v10i6.3686

Asadi, M.; **Shahabuddin, Syed**; Mollahosseini, A.; **Kaur, Jesbains**; & **Rahman, Saidur**. (2019). Electrospun magnetic zeolite/polyacrylonitrile nanofibers for extraction of PAHs from waste water: Optimized with central composite design. *Journal of Inorganic and Organometallic Polymers and Materials*, 29, 1057–1066. doi: 10.1007/s10904-019-01297-8

Aslfattahi, N., **Rahman, Saidur**, Mohd Sabri, M. F., & **Arifutzzaman, Rahat**. (2019). Experimental investigation of thermal stability and enthalpy of eutectic alkali metal solar salt dispersed with MgO nanoparticles. *International Journal of Technology*, 10(6), 1112–1119. doi: 10.14716/ijtech.v10i6.3568

Bakthavatchalam, B.; Rajasekar, K.; Habib, K.; & **Rahman, Saidur**. (2019). Numerical analysis of humidification dehumidification desalination system. *Evergreen*, 6(1), 9–17. doi: 10.5109/2320996

Ben-Mansour, R.; Al-Jabr, A. H.; & **Rahman, Saidur**. (2019). Economic comparison between RO-wind and RO-PV desalination systems. *Desalination and Water Treatment*, 156, 7–19. doi: 10.5004/dwt.2019.24090

Bezama, A.; & **Pariatamby, Agamutu**. (2019). Addressing the big issues in waste management. *Waste Management & Research*, 37(Supplement 1), 1–3. doi: 10.1177/0734242X19825733

Bilgili, M. S.; & **Pariatamby, Agamutu**. (2019). A new issue in waste management: Nanowaste. *Waste Management & Research*, 37(3), 197–198. doi: 10.1177/0734242X19830044

Chen, Jit Ern; Barbrook, A. C.; Cui, G.; Howe, C. J.; & Aranda, M. (2019). The genetic intractability of *Symbiodinium microadriaticum* to standard algal transformation methods. *PLoS ONE*, 14(2), e0211936. doi: 10.1371/journal.pone.0211936

Cheng, J.; Hu, R.; Wang, K.; Meng, X.; Li, Y.; Yang, X.; Liao, X.; Li, L.; & **Chong, Kok Boon**. (2019). Air-stable solar cells with 0.7V open-circuit voltage using selenized antimony sulfide absorbers prepared by hydrazine-free solution method (Solar RRL 5/2019). *RRL Solar*, 3(5), 1970053. doi: 10.1002/solr.201970053

Chowdhury, H.; Chowdhury, T.; Chowdhury, P.; Islam, M.; **Rahman, Saidur**; & Sait, S. M. (2019). Integrating sustainability analysis with sectoral exergy analysis: A case study of rural residential sector of Bangladesh. *Energy and Buildings*, 202, 109397. doi: 10.1016/j.enbuild.2019.109397

Chowdhury, H.; Chowdhury, T.; Thirugnanasambandam, M.; Farhan, M.; Ahamed, J. U.; **Rahman, Saidur**; & Sait, S. M. (2019). A study on exergetic efficiency vis-à-vis sustainability of industrial sector in Bangladesh. *Journal of Cleaner Production*, 231, 297–306. 10.1016/j.jclepro.2019.05.174

Chowdhury, T.; Chowdhury, H.; Thirugnanasambandam, M.; Hossain, S.; Barua, P.; Ahamed, J. U.; **Rahman, Saidur**; & Sait, S. M. (2019). Is the commercial sector of Bangladesh sustainable?—Viewing via an exergetic approach. *Journal of Cleaner Production*, 228, 544–556. doi: 10.1016/j.jclepro.2019.04.270

Coleman, J. L.; Ascher, J. S.; Bickford, D.; Buchori, D.; Cabanban, A.; Chisholm, R. A.; Chong, K. Y.; Christie, P.; **Clements, Gopalasamy Reuben**; dela Cruz, T. E. E.; Dressler, W.; Edwards, D. P.; Francis, C. M.; Friess, D. A.; Giam, X.; Gibson, L.; Huang, D.; Hughes, A. C.; Jaafar, Z.; Jain, A.; Koh, L. P.; Kudavidanage, E. P.; Lee, B. P. Y. H.; Lee, J.; Lee, T. M.; Leggett, M.; Leimona, B.; Linkie, M.; Luskin, M.; Lynam, A.; Meijaard, E.; Nijman, V.; Olsson, A.; Page, S.; Parolin, P.; Peh, K. S. H.; Posa, M. R.; Prescott, G. W.; Rahman, S. A.; Ramchunder, S. J.; Rao, M.; Reed, J.; Richards, D. R.; Slade, E. M.; Steinmetz, R.; Tan, P. Y.; Taylor, D.; Todd, P. A.; Vo, S. T.; Webb, E. L.; Ziegler, A. D.; & Carrasco, L. R. (2019). Top 100 research questions for biodiversity conservation in Southeast Asia. *Biological Conservation*, 234, 211–220. doi: 10.1016/j.biocon.2019.03.028

Farjana, S. H.; Huda, N.; Parvez Mahmud, M. A.; & **Rahman, Saidur**. (2019). A review on the impact of mining and mineral processing industries through life cycle assessment. *Journal of Cleaner Production*, 231, 1200–1217. doi: 10.1016/j.jclepro.2019.05.264

Fauziah, S. H.; Harith, S. S.; Lalung, J.; Hassan, A.; Md Repin, I., & **Pariatamby, Agamutu**. (2019). *Technical Report: Abundance and Distribution of Marine Debris on Selected Beaches of Marine Park Islands*. Department of Fisheries Malaysia. ISBN: 978-967-0633-53-4

Filho, W. L.; Vargas, V. R.; Salvia, A. L.; Brandli, L. L.; Pallant, E.; Klavins, M.; Ray, S.; Moggi, S.; Maruna, M.; Conticelli, E.; Ayanore, M. A.; Radovic, V.; Gupta, B.; Sen, S.; Paço; Michalopoulou, E.; Sakim, F. H.; **Koh, Hock Lye**; Frankenberger, F.; Kanchanamukda, W.; da Cunha, D. A.; Akib, N. A. M.; Clarke, A.; Wall, T.; & Vaccari, M. (2019). The role of higher education institutions in sustainability initiatives at the local level. *Journal of Cleaner Production*, 233, 1004–1015. doi: 10.1016/j.jclepro.2019.06.059

George, M.; **Pandey, Adarsh Kumar**; Abd Rahim, N.; Tyagi, V. V.; **Shahabuddin, Syed**; & **Rahman, Saidur**. (2019). Concentrated photovoltaic thermal systems: A component-by-component view on the developments in the design, heat transfer medium and applications. *Energy Conversion and Management*, 186, 15–41. doi: 10.1016/j.enconman.2019.02.052

Ghosh, S. K.; & **Pariatamby, Agamutu**. (2019). Plastics in municipal solid waste: What, where, how and when? *Waste Management & Research*, 37(11), 1061–1062. doi: 10.1177/0734242X19880656

Hassan, A.; **Pariatamby, Agamutu**; Ahmed, A.; Auta, H. S.; & Hamid, F. S. (2019). Enhanced bioremediation of heavy metal contaminated landfill soil using filamentous fungi consortia: A demonstration of bioaugmentation potential. *Water, Air, & Soil Pollution*, 230, 215. doi: 10.1007/s11270-019-4227-5

Hoque, M. I. U.; Yamauchi, Y.; Naidu, R.; Holze, R.; **Rahman, Saidur**; Qu, Q.; Rahman, M. M.; Torad, N. L.; Hossain, M. S. A.; Kim, M.; Kim, J.; Ahmad, S. H. A.; Rehman, A. U.; Firoz, M. S. H.; Luba, U.; Chowdhury, S.; & Chowdhury, A. (2019). A facile synthesis of hematite nanorods from rice starch and their application to Pb(II) ions removal. *Chemistry Select*, 4(13), 3730–3736. doi: 10.1002/slct.201802462

Hossain, N.; Mahlia, T. M. I.; & **Rahman, Saidur**. (2019). Latest development in microalgae-biofuel production with nano-additives. *Biotechnology for Biofuels*, 12, 125. doi: 10.1186/s13068-019-1465-0

Hossain, N.; Mahlia, T. M. I.; Zaini, J.; & **Rahman, Saidur**. (2019). Techno-economics and sensitivity analysis of microalgae as commercial feedstock for bioethanol production. *Environmental Progress & Sustainable Energy*, 38(5), 13157. doi: 10.1002/ep.13157

Hussein, O. A.; Habib, K.; **Rahman, Saidur**; Muhsan, A. S.; **Shahabuddin, Syed**; & Alawi, O. A. (2019). The influence of covalent and non-covalent functionalization of GNP based nanofluids on its thermophysical, rheological and suspension stability properties. *RSC Advances*, 9, 38576–38589. doi: 10.1039/C9RA07811H

Indira, S. S.; Vaithilingam, C. A.; Oruganti, K. S. P.; Mohd, F.; & **Rahman, Saidur**. (2019). Nanogenerators as a sustainable power source: state of art, applications, and challenges. *Nanomaterials*, 9(5), 773. doi: 10.3390/nano9050773

Irshad, K.; Habib, K.; **Rahman, Saidur**; Kareem, M. W.; & Saha, B. B. (2019). Study of thermoelectric and photovoltaic facade system for energy efficient building development: A review. *Journal of Cleaner Production*, 209, 1376–1395. doi: 10.1016/j.jclepro.2018.09.245

Islam, M. T.; Huda, N.; & **Rahman, Saidur**. (2019). Current energy mix and techno-economic analysis of concentrating solar power (CSP) technologies in Malaysia. *Renewable Energy*, 140, 789–806. doi: 10.1016/j.renene.2019.03.107

Issam, A. M.; **Shahabuddin, Syed**; Kareem, H. S.; Mohamad, S.; & **Rahman, Saidur**. (2019). Synthesis of a novel ladder poly(Azomethine-ester) based on PET waste bottles. *International Polymer Processing*, 34(3), 296–306. doi: 10.3139/217.3595

Jamil, Nurfatihah; Kaur, Jesbains; Pandey, Adarsh Kumar; Shahabuddin, Syed; Hassani, Samir; Rahman, Saidur; Ali, R. R.; Che Sidik, N. A.; & Naim, M. (2019). A review on nano enhanced phase change materials: An enhancement in thermal properties and specific heat capacity. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 57(1), 110–120. http://www.akademiabaru.com/arfmtsv57_n1_p110_120.html

Japar, W. M. A. A.; Che Sidik, N. A.; **Rahman, Saidur**; Asako, Y.; & Mohd Azmi, M. I. (2019). Temperature minimization on the substrate of a heat sink by rib-groove microchannel heat sink with effective energy consumption: Groove geometry parameter effects. *CFD Letters*, 11(9), 1–13. http://www.akademiabaru.com/doc/CFDLV11_N9_PI_13.pdf

Kaur, Jesbains; Jamil, N.; **Shahabuddin, Syed**; **Pandey, Adarsh Kumar**; **Rahman, Saidur**; Yohannes, F.; & Singh, B. (2019). The effects of graphene on microstructural and thermal properties of calcium chloride hexahydrate PCM. *2018 International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*. doi: 10.23919/ICUE-GESD.2018.8635788

Kerr, E.; & **Lee, Clarissa Ai Ling**. (2019). Trolls maintained: Baiting technological infrastructures of informational justice. *Information, Communication & Society*. doi: 10.1080/1369118X.2019.1623903

Kh'ng, X. Y.; Teh, S. Y.; & **Koh, Hock Lye**. (2019). Sea level rise impact on atoll islands: Implication to SDG 6. *Mathematics and Statistics*, 7(3), 61–69. doi: 10.13189/ms.2019.070302

Kimura, F.; **Thangavelu, Shandre Mugan**; Findlay, C.; & Chen, L. (2019). Introduction: Services supply chain-the impact on trade and development in East Asian countries. *Journal of Southeast Asian Economies*, 36(2), 141–152. doi: 10.1355/ae36-2a

Koh, Hock Lye; Abdul Kadir, M. N.; Noordin, N. M.; & Teh, S. Y. (2019). Tuberculosis elimination in Malaysia by 2035: Linkages and implications to SDGs. *International Journal of Social Science and Humanity*, 9(4), 126–132. doi: 10.18178/ijssh.2019.V9.1003

Koh, Hock Lye; Tan, Wai Kiat; Teh, S. Y.; & Tay, C. J. (2019). Water quality simulation for rehabilitation of a eutrophic lake in Selangor, Malaysia. *IOP Conference Series: Earth and Environmental Science*, 380, 012006. doi: 10.1088/1755-1315/380/1/012006

Lee, Clarissa Ai Ling. (2019). Nuclear science and technology in the Malaysian context: Three phases of technoscientific knowledge transfer (ETTGL). *Studies in History and Philosophy of Science Part A*, 77, 130–140. doi: 10.1016/j.shpsa.2017.10.002

Lee, Clarissa Ai Ling. (2019). What science fiction can demonstrate about novelty in the context of discovery and scientific creativity. *Foundations of Science*, 24, 705–725. doi: 10.1007/s10699-019-09615-6

Liu, T.; Lu, D.; & **Woo, Wing Thye.** (2019). Trade, finance and international currency. *Journal of Economic Behavior & Organization*, 164, 374–413. doi: 10.1016/j.jebo.2019.06.004

Liu, T.; Wang, X.; & **Woo, Wing Thye.** (2019). The road to currency internationalization: Global perspectives and Chinese experience. *Emerging Markets Review*, 38, 73–101. doi: 10.1016/j.ememar.2018.11.003

Macdonald, D. W.; Bothwell, H. M.; Kaszta, Ź.; Ash, E.; Bolongon, G.; Burnham, D.; Can, Ö. E.; Campos-Arceiz, A.; Channa, P.; **Clements, Gopalsamy Reuben;** Hearn, A. J.; Hedges, L.; Htun, S.; Kamler, J. F.; Kawanishi, K.; Macdonald, E. A.; Mohamad, S. W.; Moore, J.; Naing, H.; Onuma, M.; Penjor, U.; Rasphone, A.; Rayan, D. M.; Ross, J.; Singh, P.; Tan, C. K. W.; Wadey, J.; Yadav, B. P.; & Cushman, S. A. (2019). Multi-scale habitat modelling identifies spatial conservation priorities for mainland clouded leopards (*Neofelis nebulosa*). *Diversity and Distributions*, 25(10), 1639–1654. doi: 10.1111/ddi.12967

Mahbubul, I. M.; Elcioglu, E. B.; & **Rahman, Saidur**. (2019). Stability, thermophysical properties and performance assessment of alumina–water nanofluid with emphasis on ultrasonication and storage period. *Powder Technology*, 345, 668–675. doi: 10.1016/j.powtec.2019.01.041

Mascarenhas, J. D. S.; Chowdhury, H.; Thirugnanasambandam, M.; Chowdhury, T.; & **Rahman, Saidur**. (2019). Energy, exergy, sustainability, and emission analysis of industrial air compressors. *Journal of Cleaner Production*, 231, 183–195. doi: 10.1016/j.jclepro.2019.05.158

Mohsin, M.; Zhang, J.; **Rahman, Saidur**; Sun, H.; & Sait, S. M. (2019). Economic assessment and ranking of wind power potential using fuzzy-TOPSIS approach. *Environmental Science and Pollution Research International*, 26(22), 22494–22511. doi: 10.1007/s11356-019-05564-6

Mukheem, A.; **Shahabuddin, Syed**; Akbar, N.; Miskon, A.; Muhamad Sarih, N.; Sudesh, K.; **Khan, Naveed Ahmed**; **Rahman, Saidur**; & Sridewi, N. (2019). Boron nitride doped polyhydroxyalkanoate/chitosan nanocomposite for antibacterial and biological applications. *Nanomaterials*, 9(4), 645. doi: 10.3390/nano9040645

Nimmo, I. C.; Barbrook, A. C.; Lassadi, I.; **Chen, Jit Ern**; Geisler, K.; Smith, A. G.; Aranda, M.; Purton, S.; Waller, R. F.; Nisbet, R. E. R.; & Howe, C. K. (2019). Genetic transformation of the dinoflagellate chloroplast. *eLife*, 8, e45292. doi: 10.7554/eLife.45292

Ng, A.; & **Ariff, Mohamed**. (2019). Does credit rating revision affect the price of a special class of common stock? *Borsa Istanbul Review*, 19, S44–S45. doi: 10.1016/j.bir.2019.02.004

Pandey, Adarsh Kumar; Shahabuddin, Syed; Kaur, Jesbains; Rahman, Saidur; Ahmad, M. S.; Abd Rahim, N.; & Tariq, S. (2019). Preparation of fuel pellets and extraction of natural dyes from falling leaves to be used as sensitizer in dye sensitized solar cell. *2018 International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*. doi: 10.23919/ICUE-GESD.2018.8635724

Pardo, L. E.; Campbell, M. J.; Cove, M. V.; Edwards, W.; **Clements, Gopalasamy Reuben;** & Laurance, W. F. (2019). Land management strategies can increase oil palm plantation use by some terrestrial mammals in Colombia. *Scientific Reports*, 9(1), 7812. doi: 10.1038/s41598-019-44288-y

Pariatamby, Agamutu; & Bhatti, M. S. (2019). Issues and challenges in sustainable solid waste management: Global and Asian perspective. In R. P. Singh, V. Prasad, & B. Vaish (Eds.), *Advances in Waste-to-Energy Technologies* (pp. 21–40). CRC Press. ISBN: 9781138390423

Pariatamby, Agamutu; Mehran, S. B.; Norkhairah, A.; & Norkhairiyah, A. (2019). Marine debris: A review of impacts and global initiatives. *Waste Management & Research*, 37(10), 987–1002. doi: 10.1177/0734242X19845041

Pariatamby, Agamutu; Ragossnig, A. M.; & Velis, C. (2019). Publishing impactful interdisciplinary waste-related research on global challenges: Circular economy, climate change and plastics pollution. *Waste Management & Research*, 37(4), 313–314. doi: 10.1177/0734242X19837785

Rädecker, N.; **Chen, Jit Ern;** Pogoreutz, C.; Herrera, M.; Aranda, M.; & Voolstra, C. R. (2019). Nutrient stress arrests tentacle growth in the coral model *Aiptasia*. *Symbiosis*, 78, 61–64. doi: 10.1007/s13199-019-00603-9

Reza, M. S.; Ahmed, A.; Caesarendra, W.; Abu Bakar, M. S.; Shams, S.; **Rahman, Saidur**; Aslfattahi, N.; & Azad, A. K. (2019). *Acacia holosericea*: An invasive species for bio-char, bio-oil, and biogas production. *Bioengineering (Basel)*, 6(2), 33. doi: 10.3390/bioengineering6020033

Sachs, Jeffrey D.; Woo, Wing Thye; Yoshino, N.; & Taghizadeh-Hesary, F. (Eds.) (2019). *Handbook of Green Finance: Energy Security and Sustainable Development*. Springer. doi: 10.1007/978-981-13-0227-5

Sachs, Jeffrey D.; Woo, Wing Thye; Yoshino, N.; & Taghizadeh-Hesary, F. (2019). Importance of green finance for achieving sustainable development goals and energy security. In **J. D. Sachs, W. T. Woo**, N. Yoshino, & F. Taghizadeh-Hesary (Eds.), *Handbook of Green Finance: Energy Security and Sustainable Development* (pp. 3–12). Springer. doi: 10.1007/978-981-13-0227-5_13

Sajid, I. H.; Aslfattahi, N.; Mohd Sabri, M. F.; Mohd Said, S.; **Rahman, Saidur**; Mohd Salleh, M. F.; & Nik Ghazali, N. N. (2019). Synthesis and characterization of novel p-type chemically cross-linked ionogels with high ionic Seebeck coefficient for low-grade heat harvesting. *Electrochimica Acta*, 320, 134575. doi: 10.1016/j.electacta.2019.134575

Sajid, I. H.; Mohd Sabri, M. F.; Mohd Said, S.; Mohd Salleh, M. F.; Nik Ghazali, N. N.; **Rahman, Saidur**; Subramaniam, B.; Hasan, S. W.; & Jaffery, H. A. (2019). Crosslinked thermoelectric hydro-ionogels: A new class of highly conductive thermoelectric materials. *Energy Conversion and Management*, 198, 111813. doi: 10.1016/j.enconman.2019.111813

Shahabuddin, Syed; Arshid, Numan; Shahid, M. M.; Khanam, R.; **Rahman, Saidur; Pandey, Adarsh Kumar;** & Ramesh, S. (2019). Polyaniline-SrTiO₃ nanocube based binary nanocomposite as highly stable electrode material for high performance supercapattery. *Ceramics International*, 45(9), 11428–11437. doi: 10.1016/j.ceramint.2019.03.009

Shahabuddin, Syed; Pandey, Adarsh Kumar; Kaur, Jesbains; Rahman, Saidur; Mazlan, N. A.; & Baharin, S. N. A. (2019). The metal oxide nanoparticles doped polyaniline based nanocomposite as stable electrode material for supercapacitors. *2018 International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*. doi: 10.23919/ICUE-GESD.2018.8635667

Sitanggang, R. P.; Karbhari, Y.; Maternilola, B. T.; & **Ariff, Mohamed.** (2019). Audit quality and real earnings management: Evidence from the UK manufacturing sector. *International Journal of Managerial Finance*, 16(2), 165–181. doi: 10.1108/IJMF-03-2018-0095

Tahmoorespour, R.; **Ariff, Mohamed; & Zarei, Alireza.** (2019). Impact of sovereign debt credit rating revision on banking industry: Evidence from G7 countries. *Journal of Central Banking Theory and Practice*, 8(2), 85–100. doi: 10.2478/jcbtp-2019-0015

Teh, S. Y.; **Koh, Hock Lye;** DeAngelis, D. L.; Voss, C. I.; & da Silveira Lobo Sternberg, L. (2019). Modeling $\delta^{18}\text{O}$ as an early indicator of regime shift arising from salinity stress in coastal vegetation. *Hydrogeology Journal*, 27, 1257–1276. doi: 10.1007/s10040-019-01930-3

Teh, S. Y.; **Koh, Hock Lye**; & Lim, Y. H. (2019). High-resolution digital elevation and bathymetry model for tsunami run-up and inundation simulation in Penang. *Journal of Earthquake and Tsunami*, 13(05n06), 1941001. doi: 10.1142/S179343111941001X

Thangavelu, Shandre Mugan. (2019). Global supply chain in Singapore's services sector: Retail value chain and productivity improvements. *Journal of Southeast Asian Economies*, 36(2), 244–255. doi: 10.1355/ae36-2f

Tseklevs, E.; **Yong, Min Hooi**; **Lee, Clarissa Ai Ling**; Giga, S.; **Hwang, Jung Shan**; & **Lau, Sian Lun**. (2019). Rethinking how healthcare is conceptualised and delivered through speculative design in the UK and Malaysia: A comparative study. *The Design Journal*, 22 (Sup. 1), 429–444. doi: 10.1080/14606925.2019.1595430

Woo, Wing Thye. (2019). An introduction to the first principles for macro-stability and sustainable growth in China's twin new normal. *China Economic Review*, 57, 101137. doi: 10.1016/j.chieco.2017.12.004

Woo, Wing Thye. (2019). China's soft budget constraint on the demand-side undermines its supply-side structural reforms. *China Economic Review*, 57, 101111. doi: 10.1016/j.chieco.2017.09.010

Zahir, M. H.; Mohamed, S. A.; **Rahman, Saidur**; & Al-Sulaiman, F. A. (2019). Supercooling of phase-change materials and the techniques used to mitigate the phenomenon. *Applied Energy*, 240, 793–817. doi: 10.1016/j.apenergy.2019.02.045

Zarei, Alireza; Ariff, Mohamed; & Bhatti, M. I. (2019). The impact of exchange rates on stock market returns: New evidence from seven free-floating currencies. *The European Journal of Finance*, 25(14), 1277–1288. doi: 10.1080/1351847X.2019.1589550

Zendehboudi, A.; Mota-Babiloni, A.; Makhnatch, P.; **Rahman, Saidur;** & Sait, S. M. (2019). Modeling and multi-objective optimization of an R450A vapor compression refrigeration system [Modélisation et optimisation multi-objectifs d'un système frigorifique à compression de vapeur au R450A]. *International Journal of Refrigeration*, 100, 141–155. doi: 10.1016/j.ijrefrig.2019.01.008

Zendehboudi, A.; & **Rahman, Saidur.** (2019). A reliable model to estimate the effective thermal conductivity of nanofluids. *Heat and Mass Transfer*, 55, 397–411. doi: 10.1007/s00231-018-2420-5

Zendehboudi, A.; **Rahman, Saidur;** Mahbulul, I. M.; & Hosseini, S. H. (2019). Data-driven methods for estimating the effective thermal conductivity of nanofluids: A comprehensive review. *International Journal of Heat and Mass Transfer*, 131, 1211–1231. doi: 10.1016/j.ijheatmasstransfer.2018.11.053

Jeffrey Sachs Center on Sustainable Development

Abdelrazik, A. S.; Al-Sulaiman, F. A.; & **Rahman, Saidur.** (2019). Optical behavior of a water/silver nanofluid and their influence on the performance of a photovoltaic-thermal collector. *Solar Energy Materials and Solar Cells*, 201, 110054. doi: 10.1016/j.solmat.2019.110054

Abdelrazik, A. S.; Al-Sulaiman, F. A.; **Rahman, Saidur**; & Ben-Mansour, R. (2019). Evaluation of the effects of optical filtration and nanoPCM on the performance of a hybrid photovoltaic-thermal solar collector. *Energy Conversion and Management*, 195, 139–156. doi: 10.1016/j.enconman.2019.04.083

Akinpelu, A. A.; Ali, M. E.; Johan, M. R.; **Rahman, Saidur**; Chowdhury, Z. Z.; Shemsi, A. M.; & Saleh, T. A. (2019). Effect of the oxidation process on the molecular interaction of polyaromatic hydrocarbons (PAH) with carbon nanotubes: Adsorption kinetic and isotherm study. *Journal of Molecular Liquids*, 289, 111107. 10.1016/j.molliq.2019.111107

Akinpelu, A. A.; Ali, M. E.; Johan, M. R.; **Rahman, Saidur**; Qurban, M. A.; & Saleh, T. A. (2019). Polycyclic aromatic hydrocarbons extraction and removal from wastewater by carbon nanotubes: A review of the current technologies, challenges and prospects. *Process Safety and Environmental Protection*, 122, 68–82. doi: 10.1016/j.psep.2018.11.006

Alaribe, F. O.; & **Pariatamby, Agamutu**. (2019). *Lantana camara*—An ecological bioindicator plant for decontamination of Pb-impaired soil under organic waste-supplemented scenarios. *Pedosphere*, 29(2), 248–258. doi: 10.1016/S1002-0160(17)60365-5

Arifutzzaman, Rahat; Ismail, A. F.; Alam, M. Z.; Khan, A. A.; & **Rahman, Saidur**. (2019). Investigation of extraction yields of exfoliated graphene in deionized water from organic solvents. *International Journal of Technology*, 10(6), 1251–1259. doi: 10.14716/ijtech.v10i6.3686

Asadi, M.; **Shahabuddin, Syed**; Mollahosseini, A.; **Kaur, Jesbains**; & **Rahman, Saidur**. (2019). Electrospun magnetic zeolite/polyacrylonitrile nanofibers for extraction of PAHs from waste water: Optimized with central composite design. *Journal of Inorganic and Organometallic Polymers and Materials*, 29, 1057–1066. doi: 10.1007/s10904-019-01297-8

Aslfattahi, N., **Rahman, Saidur**, Mohd Sabri, M. F., & **Arifutzzaman, Rahat**. (2019). Experimental investigation of thermal stability and enthalpy of eutectic alkali metal solar salt dispersed with MgO nanoparticles. *International Journal of Technology*, 10(6), 1112–1119. doi: 10.14716/ijtech.v10i6.3568

Bakthavatchalam, B.; Rajasekar, K.; Habib, K.; & **Rahman, Saidur**. (2019). Numerical analysis of humidification dehumidification desalination system. *Evergreen*, 6(1), 9–17. doi: 10.5109/2320996

Ben-Mansour, R.; Al-Jabr, A. H.; & **Rahman, Saidur**. (2019). Economic comparison between RO-wind and RO-PV desalination systems. *Desalination and Water Treatment*, 156, 7–19. doi: 10.5004/dwt.2019.24090

Bezama, A.; & **Pariatamby, Agamutu**. (2019). Addressing the big issues in waste management. *Waste Management & Research*, 37(Supplement 1), 1–3. doi: 10.1177/0734242X19825733

Bilgili, M. S.; & **Pariatamby, Agamutu**. (2019). A new issue in waste management: Nanowaste. *Waste Management & Research*, 37(3), 197–198. doi: 10.1177/0734242X19830044

Chen, Jit Ern; Barbrook, A. C.; Cui, G.; Howe, C. J.; & Aranda, M. (2019). The genetic intractability of *Symbiodinium microadriaticum* to standard algal transformation methods. *PLoS ONE*, 14(2), e0211936. doi: 10.1371/journal.pone.0211936

Cheng, J.; Hu, R.; Wang, K.; Meng, X.; Li, Y.; Yang, X.; Liao, X.; Li, L.; & **Chong, Kok Boon**. (2019). Air-stable solar cells with 0.7V open-circuit voltage using selenized antimony sulfide absorbers prepared by hydrazine-free solution method (Solar RRL 5/2019). *RRL Solar*, 3(5), 1970053. doi: 10.1002/solr.201970053

Chowdhury, H.; Chowdhury, T.; Chowdhury, P.; Islam, M.; **Rahman, Saidur**; & Sait, S. M. (2019). Integrating sustainability analysis with sectoral exergy analysis: A case study of rural residential sector of Bangladesh. *Energy and Buildings*, 202, 109397. doi: 10.1016/j.enbuild.2019.109397

Chowdhury, H.; Chowdhury, T.; Thirugnanasambandam, M.; Farhan, M.; Ahamed, J. U.; **Rahman, Saidur**; & Sait, S. M. (2019). A study on exergetic efficiency vis-à-vis sustainability of industrial sector in Bangladesh. *Journal of Cleaner Production*, 231, 297–306. 10.1016/j.jclepro.2019.05.174

Chowdhury, T.; Chowdhury, H.; Thirugnanasambandam, M.; Hossain, S.; Barua, P.; Ahamed, J. U.; **Rahman, Saidur**; & Sait, S. M. (2019). Is the commercial sector of Bangladesh sustainable?—Viewing via an exergetic approach. *Journal of Cleaner Production*, 228, 544–556. doi: 10.1016/j.jclepro.2019.04.270

Coleman, J. L.; Ascher, J. S.; Bickford, D.; Buchori, D.; Cabanban, A.; Chisholm, R. A.; Chong, K. Y.; Christie, P.; **Clements, Gopalasamy Reuben**; dela Cruz, T. E. E.; Dressler, W.; Edwards, D. P.; Francis, C. M.; Friess, D. A.; Giam, X.; Gibson, L.; Huang, D.; Hughes, A. C.; Jaafar, Z.; Jain, A.; Koh, L. P.; Kudavidanage, E. P.; Lee, B. P. Y. H.; Lee, J.; Lee, T. M.; Leggett, M.; Leimona, B.; Linkie, M.; Luskin, M.; Lynam, A.; Meijaard, E.; Nijman, V.; Olsson, A.; Page, S.; Parolin, P.; Peh, K. S. H.; Posa, M. R.; Prescott, G. W.; Rahman, S. A.; Ramchunder, S. J.; Rao, M.; Reed, J.; Richards, D. R.; Slade, E. M.; Steinmetz, R.; Tan, P. Y.; Taylor, D.; Todd, P. A.; Vo, S. T.; Webb, E. L.; Ziegler, A. D.; & Carrasco, L. R. (2019). Top 100 research questions for biodiversity conservation in Southeast Asia. *Biological Conservation*, 234, 211–220. doi: 10.1016/j.biocon.2019.03.028

Farjana, S. H.; Huda, N.; Parvez Mahmud, M. A.; & **Rahman, Saidur**. (2019). A review on the impact of mining and mineral processing industries through life cycle assessment. *Journal of Cleaner Production*, 231, 1200–1217. doi: 10.1016/j.jclepro.2019.05.264

Fauziah, S. H.; Harith, S. S.; Lalung, J.; Hassan, A.; Md Repin, I., & **Pariatamby, Agamutu**. (2019). *Technical Report: Abundance and Distribution of Marine Debris on Selected Beaches of Marine Park Islands*. Department of Fisheries Malaysia. ISBN: 978-967-0633-53-4

Filho, W. L.; Vargas, V. R.; Salvia, A. L.; Brandli, L. L.; Pallant, E.; Klavins, M.; Ray, S.; Moggi, S.; Maruna, M.; Conticelli, E.; Ayanore, M. A.; Radovic, V.; Gupta, B.; Sen, S.; Paço; Michalopoulou, E.; Sakim, F. H.; **Koh, Hock Lye**; Frankenberger, F.; Kanchanamukda, W.; da Cunha, D. A.; Akib, N. A. M.; Clarke, A.; Wall, T.; & Vaccari, M. (2019). The role of higher education institutions in sustainability initiatives at the local level. *Journal of Cleaner Production*, 233, 1004–1015. doi: 10.1016/j.jclepro.2019.06.059

George, M.; **Pandey, Adarsh Kumar**; Abd Rahim, N.; Tyagi, V. V.; **Shahabuddin, Syed**; & **Rahman, Saidur**. (2019). Concentrated photovoltaic thermal systems: A component-by-component view on the developments in the design, heat transfer medium and applications. *Energy Conversion and Management*, 186, 15–41. doi: 10.1016/j.enconman.2019.02.052

Ghosh, S. K.; & **Pariatamby, Agamutu**. (2019). Plastics in municipal solid waste: What, where, how and when? *Waste Management & Research*, 37(11), 1061–1062. doi: 10.1177/0734242X19880656

Hassan, A.; **Pariatamby, Agamutu**; Ahmed, A.; Auta, H. S.; & Hamid, F. S. (2019). Enhanced bioremediation of heavy metal contaminated landfill soil using filamentous fungi consortia: A demonstration of bioaugmentation potential. *Water, Air, & Soil Pollution*, 230, 215. doi: 10.1007/s11270-019-4227-5

Hassan, M. M.; **Lee, Khai Ern**; & **Mokhtar, Mazlin**. (2019). Streamlining non-governmental organizations' programs towards achieving the sustainable development goals: A conceptual framework. *Sustainable Development*, 27(3), 401–408. doi: 10.1002/sd.1912

Hoque, M. I. U.; Yamauchi, Y.; Naidu, R.; Holze, R.; **Rahman, Saidur**; Qu, Q.; Rahman, M. M.; Torad, N. L.; Hossain, M. S. A.; Kim, M.; Kim, J.; Ahmad, S. H. A.; Rehman, A. U.; Firoz, M. S. H.; Luba, U.; Chowdhury, S.; & Chowdhury, A. (2019). A facile synthesis of hematite nanorods from rice starch and their application to Pb(II) ions removal. *Chemistry Select*, 4(13), 3730–3736. doi: 10.1002/slct.201802462

Hossain, N.; Mahlia, T. M. I.; & **Rahman, Saidur**. (2019). Latest development in microalgae-biofuel production with nano-additives. *Biotechnology for Biofuels*, 12, 125. doi: 10.1186/s13068-019-1465-0

Hossain, N.; Mahlia, T. M. I.; Zaini, J.; & **Rahman, Saidur**. (2019). Techno-economics and sensitivity analysis of microalgae as commercial feedstock for bioethanol production. *Environmental Progress & Sustainable Energy*, 38(5), 13157. doi: 10.1002/ep.13157

Hussein, O. A.; Habib, K.; **Rahman, Saidur**; Muhsan, A. S.; **Shahabuddin, Syed**; & Alawi, O. A. (2019). The influence of covalent and non-covalent functionalization of GNP based nanofluids on its thermophysical, rheological and suspension stability properties. *RSC Advances*, 9, 38576–38589. doi: 10.1039/C9RA07811H

Indira, S. S.; Vaithilingam, C. A.; Oruganti, K. S. P.; Mohd, F.; & **Rahman, Saidur**. (2019). Nanogenerators as a sustainable power source: state of art, applications, and challenges. *Nanomaterials*, 9(5), 773. doi: 10.3390/nano9050773

Irshad, K.; Habib, K.; **Rahman, Saidur**; Kareem, M. W.; & Saha, B. B. (2019). Study of thermoelectric and photovoltaic facade system for energy efficient building development: A review. *Journal of Cleaner Production*, 209, 1376–1395. doi: 10.1016/j.jclepro.2018.09.245

Islam, M. T.; Huda, N.; & **Rahman, Saidur**. (2019). Current energy mix and techno-economic analysis of concentrating solar power (CSP) technologies in Malaysia. *Renewable Energy*, 140, 789–806. doi: 10.1016/j.renene.2019.03.107

Issam, A. M.; **Shahabuddin, Syed**; Kareem, H. S.; Mohamad, S.; & **Rahman, Saidur**. (2019). Synthesis of a novel ladder poly(Azomethine-ester) based on PET waste bottles. *International Polymer Processing*, 34(3), 296–306. doi: 10.3139/217.3595

Jamil, Nurfatihah; Kaur, Jesbains; Pandey, Adarsh Kumar; Shahabuddin, Syed; Hassani, Samir; Rahman, Saidur; Ali, R. R.; Che Sidik, N. A.; & Naim, M. (2019). A review on nano enhanced phase change materials: An enhancement in thermal properties and specific heat capacity. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 57(1), 110–120. http://www.akademiabaru.com/arfmtsv57_n1_p110_120.html

Japar, W. M. A. A.; Che Sidik, N. A.; **Rahman, Saidur**; Asako, Y.; & Mohd Azmi, M. I. (2019). Temperature minimization on the substrate of a heat sink by rib-groove microchannel heat sink with effective energy consumption: Groove geometry parameter effects. *CFD Letters*, 11(9), 1–13. http://www.akademiabaru.com/doc/CFDLV11_N9_PI_13.pdf

Kamarulzaman, N. A.; **Lee, Khai Ern**; Siow, K. S.; & **Mokhtar, Mazlin**. (2019). Psychological and sociological perspectives for good governance of sustainable nanotechnology development in Malaysia. *Journal of Nanoparticle Research*, 21, 164. doi: 10.1007/s11051-019-4583-5

Kaur, Jesbains; Jamil, N.; **Shahabuddin, Syed**; **Pandey, Adarsh Kumar**; **Rahman, Saidur**; Yohannes, F.; & Singh, B. (2019). The effects of graphene on microstructural and thermal properties of calcium chloride hexahydrate PCM. *2018 International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*. doi: 10.23919/ICUE-GESD.2018.8635788

Kerr, E.; & **Lee, Clarissa Ai Ling**. (2019). Trolls maintained: Baiting technological infrastructures of informational justice. *Information, Communication & Society*. doi: 10.1080/1369118X.2019.1623903

Kh'ng, X. Y.; Teh, S. Y.; & **Koh, Hock Lye**. (2019). Sea level rise impact on atoll islands: Implication to SDG 6. *Mathematics and Statistics*, 7(3), 61–69. doi: 10.13189/ms.2019.070302

Kimura, F.; **Thangavelu, Shandre Mugan**; Findlay, C.; & Chen, L. (2019). Introduction: Services supply chain-the impact on trade and development in East Asian countries. *Journal of Southeast Asian Economies*, 36(2), 141–152. doi: 10.1355/ae36-2a

Koh, Hock Lye; Abdul Kadir, M. N.; Noordin, N. M.; & Teh, S. Y. (2019). Tuberculosis elimination in Malaysia by 2035: Linkages and implications to SDGs. *International Journal of Social Science and Humanity*, 9(4), 126–132. doi: 10.18178/ijssh.2019.V9.1003

Koh, Hock Lye; Tan, Wai Kiat; Teh, S. Y.; & Tay, C. J. (2019). Water quality simulation for rehabilitation of a eutrophic lake in Selangor, Malaysia. *IOP Conference Series: Earth and Environmental Science*, 380, 012006. doi: 10.1088/1755-1315/380/1/012006

Lee, Clarissa Ai Ling. (2019). Nuclear science and technology in the Malaysian context: Three phases of technoscientific knowledge transfer (ETTGL). *Studies in History and Philosophy of Science Part A*, 77, 130–140. doi: 10.1016/j.shpsa.2017.10.002

Lee, Clarissa Ai Ling. (2019). What science fiction can demonstrate about novelty in the context of discovery and scientific creativity. *Foundations of Science*, 24, 705–725. doi: 10.1007/s10699-019-09615-6

Liu, T.; Lu, D.; & **Woo, Wing Thye.** (2019). Trade, finance and international currency. *Journal of Economic Behavior & Organization*, 164, 374–413. doi: 10.1016/j.jebo.2019.06.004

Liu, T.; Wang, X.; & **Woo, Wing Thye.** (2019). The road to currency internationalization: Global perspectives and Chinese experience. *Emerging Markets Review*, 38, 73–101. doi: 10.1016/j.ememar.2018.11.003

Macdonald, D. W.; Bothwell, H. M.; Kaszta, Ž.; Ash, E.; Bolongon, G.; Burnham, D.; Can, Ö. E.; Campos-Arceiz, A.; Channa, P.; **Clements, Gopalasamy Reuben**; Hearn, A. J.; Hedges, L.; Htun, S.; Kamler, J. F.; Kawanishi, K.; Macdonald, E. A.; Mohamad, S. W.; Moore, J.; Naing, H.; Onuma, M.; Penjor, U.; Rasphone, A.; Rayan, D. M.; Ross, J.; Singh, P.; Tan, C. K. W.; Wadey, J.; Yadav, B. P.; & Cushman, S. A. (2019). Multi-scale habitat modelling identifies spatial conservation priorities for mainland clouded leopards (*Neofelis nebulosa*). *Diversity and Distributions*, 25(10), 1639–1654. doi: 10.1111/ddi.12967

Mahbulbul, I. M.; Elcioglu, E. B.; & **Rahman, Saidur**. (2019). Stability, thermophysical properties and performance assessment of alumina–water nanofluid with emphasis on ultrasonication and storage period. *Powder Technology*, 345, 668–675. doi: 10.1016/j.powtec.2019.01.041

Mascarenhas, J. D. S.; Chowdhury, H.; Thirugnanasambandam, M.; Chowdhury, T.; & **Rahman, Saidur**. (2019). Energy, exergy, sustainability, and emission analysis of industrial air compressors. *Journal of Cleaner Production*, 231, 183–195. doi: 10.1016/j.jclepro.2019.05.158

Mohsin, M.; Zhang, J.; **Rahman, Saidur**; Sun, H.; & Sait, S. M. (2019). Economic assessment and ranking of wind power potential using fuzzy-TOPSIS approach. *Environmental Science and Pollution Research International*, 26(22), 22494–22511. doi: 10.1007/s11356-019-05564-6

Muhamad Khair, N. K.; **Lee, Khai Ern; Mokhtar, Mazlin**; & Goh, C. T. (2019). Simplified and Integrated Management System for Responsible Care (SIMS-RC) in chemical industries. *Management of Environmental Quality*, 30(3), 624–642. doi: 10.1108/MEQ-07-2018-0126

Mukheem, A.; **Shahabuddin, Syed**; Akbar, N.; Miskon, A.; Muhamad Sarih, N.; Sudesh, K.; **Khan, Naveed Ahmed**; **Rahman, Saidur**; & Sridewi, N. (2019). Boron nitride doped polyhydroxyalkanoate/chitosan nanocomposite for antibacterial and biological applications. *Nanomaterials*, 9(4), 645. doi: 10.3390/nano9040645

Nimmo, I. C.; Barbrook, A. C.; Lassadi, I.; **Chen, Jit Ern**; Geisler, K.; Smith, A. G.; Aranda, M.; Purton, S.; Waller, R. F.; Nisbet, R. E. R.; & Howe, C. K. (2019). Genetic transformation of the dinoflagellate chloroplast. *eLife*, 8, e45292. doi: 10.7554/eLife.45292

Ng, A.; & **Ariff, Mohamed**. (2019). Does credit rating revision affect the price of a special class of common stock? *Borsa Istanbul Review*, 19, S44–S45. doi: 10.1016/j.bir.2019.02.004

Pandey, Adarsh Kumar; **Shahabuddin, Syed**; **Kaur, Jesbains**; **Rahman, Saidur**; Ahmad, M. S.; Abd Rahim, N.; & Tariq, S. (2019). Preparation of fuel pellets and extraction of natural dyes from falling leaves to be used as sensitizer in dye sensitized solar cell. *2018 International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*. doi: 10.23919/ICUE-GESD.2018.8635724

Pardo, L. E.; Campbell, M. J.; Cove, M. V.; Edwards, W.; **Clements, Gopalasamy Reuben**; & Laurance, W. F. (2019). Land management strategies can increase oil palm plantation use by some terrestrial mammals in Colombia. *Scientific Reports*, 9(1), 7812. doi: 10.1038/s41598-019-44288-y

Pariatamby, Agamutu; & Bhatti, M. S. (2019). Issues and challenges in sustainable solid waste management: Global and Asian perspective. In R. P. Singh, V. Prasad, & B. Vaish (Eds.), *Advances in Waste-to-Energy Technologies* (pp. 21–40). CRC Press. ISBN: 9781138390423

Pariatamby, Agamutu; Mehran, S. B.; Norkhairah, A.; & Norkhairiyah, A. (2019). Marine debris: A review of impacts and global initiatives. *Waste Management & Research*, 37(10), 987–1002. doi: 10.1177/0734242X19845041

Pariatamby, Agamutu; Ragossnig, A. M.; & Velis, C. (2019). Publishing impactful interdisciplinary waste-related research on global challenges: Circular economy, climate change and plastics pollution. *Waste Management & Research*, 37(4), 313–314. doi: 10.1177/0734242X19837785

Rädecker, N.; **Chen, Jit Ern;** Pogoreutz, C.; Herrera, M.; Aranda, M.; & Voolstra, C. R. (2019). Nutrient stress arrests tentacle growth in the coral model *Aiptasia*. *Symbiosis*, 78, 61–64. doi: 10.1007/s13199-019-00603-9

Reza, M. S.; Ahmed, A.; Caesarendra, W.; Abu Bakar, M. S.; Shams, S.; **Rahman, Saidur;** Aslfattahi, N.; & Azad, A. K. (2019). *Acacia holosericea*: An invasive species for bio-char, bio-oil, and biogas production. *Bioengineering (Basel)*, 6(2), 33. doi: 10.3390/bioengineering6020033

Sachs, Jeffrey D.; Woo, Wing Thye; Yoshino, N.; & Taghizadeh-Hesary, F. (Eds.) (2019). *Handbook of Green Finance: Energy Security and Sustainable Development*. Springer. doi: 10.1007/978-981-13-0227-5

Sachs, Jeffrey D.; Woo, Wing Thye; Yoshino, N.; & Taghizadeh-Hesary, F. (2019). Importance of green finance for achieving sustainable development goals and energy security. In **J. D. Sachs, W. T. Woo, N. Yoshino, & F. Taghizadeh-Hesary** (Eds.), *Handbook of Green Finance: Energy Security and Sustainable Development* (pp. 3–12). Springer. doi: 10.1007/978-981-13-0227-5_13

Sajid, I. H.; Aslfattahi, N.; Mohd Sabri, M. F.; Mohd Said, S.; **Rahman, Saidur**; Mohd Salleh, M. F.; & Nik Ghazali, N. N. (2019). Synthesis and characterization of novel p-type chemically cross-linked ionogels with high ionic Seebeck coefficient for low-grade heat harvesting. *Electrochimica Acta*, 320, 134575. doi: 10.1016/j.electacta.2019.134575

Sajid, I. H.; Mohd Sabri, M. F.; Mohd Said, S.; Mohd Salleh, M. F.; Nik Ghazali, N. N.; **Rahman, Saidur**; Subramaniam, B.; Hasan, S. W.; & Jaffery, H. A. (2019). Crosslinked thermoelectric hydro-ionogels: A new class of highly conductive thermoelectric materials. *Energy Conversion and Management*, 198, 111813. doi: 10.1016/j.enconman.2019.111813

Shahabuddin, Syed; Arshid, Numan; Shahid, M. M.; Khanam, R.; **Rahman, Saidur; Pandey, Adarsh Kumar**; & Ramesh, S. (2019). Polyaniline-SrTiO₃ nanocube based binary nanocomposite as highly stable electrode material for high performance supercapattery. *Ceramics International*, 45(9), 11428–11437. doi: 10.1016/j.ceramint.2019.03.009

Shahabuddin, Syed; Pandey, Adarsh Kumar; Kaur, Jesbains; Rahman, Saidur; Mazlan, N. A.; & Baharin, S. N. A. (2019). The metal oxide nanoparticles doped polyaniline based nanocomposite as stable electrode material for supercapacitors. *2018 International Conference and Utility Exhibition on Green Energy for Sustainable Development (ICUE)*. doi: 10.23919/ICUE-GESD.2018.8635667

Sitanggang, R. P.; Karbhari, Y.; Maternilola, B. T.; & **Ariff, Mohamed**. (2019). Audit quality and real earnings management: Evidence from the UK manufacturing sector. *International Journal of Managerial Finance*, 16(2), 165–181. doi: 10.1108/IJMF-03-2018-0095

Tahmoorespour, R.; **Ariff, Mohamed**; & **Zarei, Alireza**. (2019). Impact of sovereign debt credit rating revision on banking industry: Evidence from G7 countries. *Journal of Central Banking Theory and Practice*, 8(2), 85–100. doi: 10.2478/jcbtp-2019-0015

Teh, S. Y.; **Koh, Hock Lye**; DeAngelis, D. L.; Voss, C. I.; & da Silveira Lobo Sternberg, L. (2019). Modeling $\delta^{18}\text{O}$ as an early indicator of regime shift arising from salinity stress in coastal vegetation. *Hydrogeology Journal*, 27, 1257–1276. doi: 10.1007/s10040-019-01930-3

Teh, S. Y.; **Koh, Hock Lye**; & Lim, Y. H. (2019). High-resolution digital elevation and bathymetry model for tsunami run-up and inundation simulation in Penang. *Journal of Earthquake and Tsunami*, 13(05n06), 1941001. doi: 10.1142/S179343111941001X

Thangavelu, Shandre Mugan. (2019). Global supply chain in Singapore's services sector: Retail value chain and productivity improvements. *Journal of Southeast Asian Economies*, 36(2), 244–255. doi: 10.1355/ae36-2f

Tseklevs, E.; **Yong, Min Hooi**; **Lee, Clarissa Ai Ling**; Giga, S.; **Hwang, Jung Shan**; & **Lau, Sian Lun**. (2019). Rethinking how healthcare is conceptualised and delivered through speculative design in the UK and Malaysia: A comparative study. *The Design Journal*, 22 (Sup. 1), 429–444. doi: 10.1080/14606925.2019.1595430

Woo, Wing Thye. (2019). An introduction to the first principles for macro-stability and sustainable growth in China's twin new normal. *China Economic Review*, 57, 101137. doi: 10.1016/j.chieco.2017.12.004

Woo, Wing Thye. (2019). China's soft budget constraint on the demand-side undermines its supply-side structural reforms. *China Economic Review*, *57*, 101111. doi: 10.1016/j.chieco.2017.09.010

Zahir, M. H.; Mohamed, S. A.; **Rahman, Saidur**; & Al-Sulaiman, F. A. (2019). Supercooling of phase-change materials and the techniques used to mitigate the phenomenon. *Applied Energy*, *240*, 793–817. doi: 10.1016/j.apenergy.2019.02.045

Zarei, Alireza; Ariff, Mohamed; & Bhatti, M. I. (2019). The impact of exchange rates on stock market returns: New evidence from seven free-floating currencies. *The European Journal of Finance*, *25*(14), 1277–1288. doi: 10.1080/1351847X.2019.1589550

Zendehboudi, A.; Mota-Babiloni, A.; Makhnatch, P.; **Rahman, Saidur**; & Sait, S. M. (2019). Modeling and multi-objective optimization of an R450A vapor compression refrigeration system [Modélisation et optimisation multi-objectifs d'un système frigorifique à compression de vapeur au R450A]. *International Journal of Refrigeration*, *100*, 141–155. doi: 10.1016/j.ijrefrig.2019.01.008

Zendehboudi, A.; & **Rahman, Saidur**. (2019). A reliable model to estimate the effective thermal conductivity of nanofluids. *Heat and Mass Transfer*, *55*, 397–411. doi: 10.1007/s00231-018-2420-5

Zendehboudi, A.; **Rahman, Saidur**; Mahbulul, I. M.; & Hosseini, S. H. (2019). Data-driven methods for estimating the effective thermal conductivity of nanofluids: A comprehensive review. *International Journal of Heat and Mass Transfer*, *131*, 1211–1231. doi: 10.1016/j.ijheatmasstransfer.2018.11.053

Sunway University DU 025 (B)

Owned and governed by the Jeffrey Cheah Foundation (800946-T)

No. 5, Jalan Universiti, Bandar Sunway,
47500 Selangor Darul Ehsan, Malaysia

T | +6 (03) 7491 8622

F | +6 (03) 5635 8630

E | info@sunway.edu.my

W | university.sunway.edu.my



Owned and governed by the

Jeffrey Cheah
Foundation 

Nurturing the Seeds of Wisdom