

## Senarai Penerbitan LESTARI 2020

### Buku/ Books

1. **Lee Khai Ern**. 2020. *Concepts and Approaches for Sustainability Management*. Switzerland: Springer.
2. Norzaini Azman & **Ibrahim Komoo**. 2020. *Membina Ekosistem Akademik Berasaskan Akademik Berbudaya Cemerlang*. Bangi: Penerbit Universiti Kebangsaan Malaysia.

### Bab Dalam Buku/ Chapter in Books

1. **Ahmad Fariz Mohamed** & Muhammad Izzat Rasnan. 2020. Enhancing Role and Participation of Industry and Community for Sustainable E-Waste Recovery for Sustainable Consumption and Production (SCP): Case Study Kuala Lumpur Malaysia. Dlm. Kishita, Y., Matsumoto, M., Inoue, M. & Fukushie, S. (penyt.) *EcoDesign and Sustainability II: Social Perspectives and Sustainability Assessment*, hlm 135-145. Switzerland: Springer.
2. **Chamhuri Siwar** & **Nor Diana Mohd Idris**. 2020. Pro-poor Growth Policies for Poverty Alleviation. Dlm. Filho, L., Azul, W., Brandli, A.M., Lange Salvia, A., Ozuyar, P.G. & Wall, T. (penyt.) *Reduced Inequalities*, hlm. 1-13. Switzerland: Springer.
3. Chan Kok Meng, **Goh Choo Ta**, Jahangir Kamaldin, Marzura Sahani, Noor Amalina Ramle, Asnida Arifin & Salman Hussain Inayat-Hussain. 2020. Malaysia. Dlm. Wexler, P., S.G. Gilbert., Mohapatra, A., Bobst, S., Hayes, A. & Humes, S.T. (penyt.) *Information Resources in Toxicology*, hlm 319-340 . United Kingdom: Academic Press.
4. Diana Liverman, **Joy Jacqueline Pereira** & Patricia Pinho. 2020. Dialing Down the Heat. Dlm. FutureEarth. *Our Future on Earth 2020*, hlm 19-24.
5. **Ibrahim Komoo** & Norzaini Azman. 2020 Menjajar Kecemerlangan Ekosistem Akademik. Dlm. Norzaini Azman & Ibrahim Komoo (penyt.) *Membina Ekosistem Akademik berasaskan Akademik Berbudaya Cemerlang*, hlm. 484-519. Bangi: Penerbit UKM.
6. Jamaiah Yahaya, Sazrol Fadzli, Aziz Deraman, Abdul Razak Hamdan, Lilia Halim, Noor Zaitun Yahaya, Mohamed Shahrir Mohamed Zahari, **Tanot Unjah**. 2020. Teknologi fusion untuk penggunaan data STEM melalui model simulasi dan visualisasi pembelajaran untuk impak industri kuari dalam alam sekitar (EELS) bagi kesediaan data terbuka. Dlm. Halimah Badioze Zaman & Azlina Ahmad (penyt.) *Teknologi fusion dan pemikiran komputasional bagi kesediaan data terbuka*, hlm 197-223. Bangi: Penerbit UKM
7. **Joy Jacqueline Pereira**, Tariqur Rahman Bhuiyan, **Nurfashareena Muhamad** & Julian Hunt. 2020. Regional Status of Urban Resilience and Climate Change. Dlm. UNDRR-APSTAAG (penyt.) *Science and Technology Status for Disaster Risk Reduction in Asia Pacific*, hlm: 38-44. Switzerland: United Nations.

8. **Minhaz Farid Ahmed, Mazlin Mokhtar & Hazrat Bilal.** 2020. Drought Management Practices in South and South-East Asia. Dlm. Pal, L. & Bhatt, M. Drought Risk Management in South and South-East Asia. Hlm. 46-74. India: SAGE.
9. Mohamad Muhyiddin Hassan, **Lee Khai Ern & Mazlin Mokhtar.** 2020. Mainstreaming, institutionalizing and translating sustainable development goals into non-governmental organization's programs. Dlm. Lee Khai Ern (penyt.) *Concepts and Approaches for Sustainability Management*, hlm 93-118. Switzerland: Springer.
10. Mohd Hafiyyan Mahmud, **Lee Khai Ern, Mazlin Mokhtar & Sharina Abdul Halim.** 2020. Shifting the paradigm toward integrated management of urban river in a University Campus. Dlm. Lee Khai Ern (penyt.) *Concepts and Approaches for Sustainability Management*, hlm 55-70. Switzerland: Springer.
11. **Nik Mohd Noor Faizul Md Saad & Nik Mohd Noor Faizal Md Saad.** 2020. Pendidikan Alam Sekitar Memacu Pembudayaan Teknologi Hijau ke Arah Kelestarian Alam Sekitar. Dlm. Kolej Komuniti Seberang Jaya (Penyt.) *Inspirasi Intelek Vol.1*, hlm 177-182. Seberang Jaya: Kolek Komuniti Seberang Jaya.
12. Norzaini Azman & **Ibrahim Komoo.** 2020. Ekosistem Akademik Berbudaya Cemerlang. Dlm. Norzaini Azman & Ibrahim Komoo (penyt.) *Membina Ekosistem Akademik berasaskan Akademik Berbudaya Cemerlang*, hlm. 27-57. Bangi: Penerbit UKM.
13. Norzaini Azman & **Ibrahim Komoo.** 2020. Kecemerlangan Universiti. Dlm. Norzaini Azman & Ibrahim Komoo (penyt.) *Membina Ekosistem Akademik berasaskan Akademik Berbudaya Cemerlang*, hlm. 81-119. Bangi: Penerbit UKM.
14. Norzaini Azman, **Ibrahim Komoo & Nik Sabrina Abdullah.** 2020. Kepimpinan Akademik Cemerlang. Dlm. Norzaini Azman & Ibrahim Komoo (penyt.) *Membina Ekosistem Akademik berasaskan Akademik Berbudaya Cemerlang*, hlm. 439-483. Bangi: Penerbit UKM.
15. Norzaini Azman & **Ibrahim Komoo.** 2020. Pendahuluan: Ekosistem Akademik Kecemerlangan Institusi Universiti. Dlm. Norzaini Azman & Ibrahim Komoo (penyt.) *Membina Ekosistem Akademik berasaskan Akademik Berbudaya Cemerlang*, hlm. 15-26. Bangi: Penerbit UKM.
16. Norzaini Azman, Mohd Ferdaus Harun & **Ibrahim Komoo.** 2020. Budaya Kecemerlangan. Dlm. Norzaini Azman & Ibrahim Komoo (penyt.) *Membina Ekosistem Akademik berasaskan Akademik Berbudaya Cemerlang*, hlm. 58-80. Bangi: Penerbit UKM.
17. Norzalina Zainudin, **Nor Diana Mohd Idris & Chamhuri Siwar.** 2020. Energy Conservation: Concept and Approaches. Dlm. Filho, W.L., Azul, A.M., Brandli, L., Salvia, A.L. & Wall, T. (penyt.) *Energy Conservation: Concept and Approaches*, hlm 1-10. Switzerland: Springer.
18. Nurasyikin Ghazali, **Sharina Abdul Halim & Nor Haidanadia Hasni.** 2020. Kelestarian Budaya Mendriq Malaysia. Dlm. W. A. Amir Zal & Hasan Mat Nor (penyt.) *Prolegomena Masa Hadapan Orang Asli Malaysia*, hlm 59-78. Kota Bharu: Penerbit UMK.
19. Noor Syazwani Hassan, **Lee Khai Ern, Mazlin Mokhtar & Goh Choo Ta.** 2020. Correlating corporate social responsibilities of chemical industries in Malaysia toward sustainable Development. Dlm. Lee Khai Ern (penyt.) *Concepts and Approaches for Sustainability Management*, hlm 41-54. Switzerland: Springer.

20. Nur Aizat Kamarulzaman, **Lee Khai Ern** & Kim Shyong Siow. 2020. Understanding public benefit and risk perceptions through psychological and sociological aspects for sustainable nanotechnology development in Malaysia. Dlm. Lee Khai Ern (penyt.) *Concepts and Approaches for Sustainability Management*, hlm 2-22. Switzerland: Springer.
21. Nur Khairlida Muhamad Khair, **Lee Khai Ern, Mazlin Mokhtar & Goh Choo Ta**. 2020. Integrating responsible care through quality, environmental, health and safety management system for chemical industries in Malaysia. Dlm. Lee Khai Ern (penyt.) *Concepts and Approaches for Sustainability Management*, hlm 23-40. Switzerland: Springer.
22. Suganty Kanapathy, **Lee Khai Ern, Mazlin Mokhtar**, Subarna Sivapalan, **Sharifah Zarina Syed Zakaria**, Azizah Mohd Zahidi. 2020. Enculturing sustainable development concept through chemistry curriculum for education for sustainable development. Dlm. Lee Khai Ern (penyt.) *Concepts and Approaches for Sustainability Management*, hlm 71-92. Switzerland: Springer.

### Jurnal/ Journals

1. Abd. Thalib , **Sharifah Zarina Syed Zakaria** , Kadir Arifin & **Muhammad Rizal Razman**. 2020. An Analysis Study on the Intellectual Property Regulation in Indonesia: Focusing on the Record of the Intellectual Property Licensing Agreements. *Journal of Engineering and Applied Sciences* 15(1): 273-278.
2. Abdul Aziz Ab Rahman, **Nuriah Abd Majid** & Siti Nursakinah Selamat. 2020. A comprehensive deriving the factors of landslide happened in Malaysia. *International Journal on Emerging Technologies* 11(5): 1-5.
3. **Ahmad Aldrie Amir**. 2020. The going gets tough for mangroves. *Human Ecology: Journal of the Commonwealth Human Ecology Council* 30: 16-18.
4. **Ahmad Aldrie Amir** & A. Latiff. 2020. Foreword. *Malayan Nature Journal* 72(4): ii-iii
5. **Ahmad Aldrie Amir**, S. Y. Foong, Cheryl Rita Kaur, Behara Satyanarayana, Sahadev Sharma, Ahmad Ismail, Nor Aslinda Awang, Kasturi Devi Kanniah, Amy Yee Hui Then, Harinder Rai Singh, Mohammad Shahfiz Azman, Alison Kim Shan Wee, Farid Dahdouh-Guebas, A. Latiff. 2020. The strategic establishment of the Malaysian Mangrove Research Alliance and Network (MyMangrove). *Malayan Nature Journal* 72(4): 577-595.
6. Ahmad Firdhaus Arham, Latifah Amin, Zurina Mahadi, Mashitoh Yaacob, **Muhammad Rizal Razman**. 2020. Predicting factors and attitude towards wolbachia-infected aedes mosquitoes in Malaysia. *Academy of Strategic Management Journal* 19(2): 1-5.
7. Ahmad Firdhaus Arham, **Muhammad Rizal Razman**, Latifah Amin, Zurina Mahadi, Ahmad Fadhly Arham. 2020. Strategic management: sustainable governance of dengue in Malaysia. *Science international* 32(2): 147-151.
8. Ahmad Fitra Yuza, Syafrinaldi, Syahrul Akmal Latif, **Muhammad Rizal Razman, Nuriah Abd. Majid, Sharifah Zarina Syed Zakaria**. 2020. Governmental capacity in environmental management at regency border in Indonesia. *Ecology, Environment and Conservation* 26(4):205-210.

9. Ahmad Khairul Baharudin & Sarah Aziz. 2020. Menganjak ke satu pengurusan sisa pepejal secara lestari di Kampus UKM Bangi, Selangor: Pertimbangan awal. *Jurnal Personalia Pelajar* 23(2): 155-164.
10. Ahmad Siddique, **Chamhuri Siwar**, Ferdous Alam, Basri Abdul Talib, Norshamliza Chamhuri & **Nor Diana Mohd Idris**. 2020. Consumer's willingness to pay for Malaysian organic food product. *International Journal of Psychosocial Rehabilitation* 24(2): 2591-2601.
11. Alan Thompson, Brian Marker, Jane Poole, **Joy Jacqueline Pereira**, **Lim Choun Sian**, Yunus Abdul Razak, Julian Hunt. 2020. Key principles and approaches in geohazard communication for enhancing disaster resilience. *Warta Geologi* 46(3): 232 – 240.
12. Anizah Mohd Salleh, Nor Zalina Harun, **Sharina Abdul Halim**. 2020. Urban food insecurity : the relationship between community resilience and urban agriculture. *Asian Journal of Quality of Life* 5(18): 57-73.
13. Azwan Mat Lazim, A. Azfaralariff, Imran Azman, Mohamad Nasir Mat Arip, S.I. Zubairi, N.H. Mohd Kaus, N. Nazir, Mazlan Mohamad, Akhsan Kamil, **Ahmad Danial Azzahari**, Arham Abdullah, A.L. Zul Ariff. 2020. Improving wood durability against *G. Trabeum* and *C. versicolor* using starch based antifungal coating from *Dioscorea hispida* sp. *Journal of the Taiwan Institute of Chemical Engineers* 115: 242-250.
14. Dil Afroza Khanom, Amirun Nesa, Muhammad Abu Sayed Jewel, Muhammad Ayenuddin Haque, Alok Kumar Paul, Sonia Iqbal, Usman Atique, **Lubna Alam**. 2020. Muscular Tissue Bioaccumulation and Health Risk Assessment of Heavy Metals in Two Edible Fish Species (*Gudusia chapra* and *Eutropiichthys vacha*) in Padma River, Bangladesh. *Punjab University Journal of Zoology* 35(1): 81-89.
15. Dina D Ayala, Kai Wang, Yuan Yan, Helen Smith, Ashleigh Massam, Valeriya Filipova & **Joy Jacqueline Pereira**. 2020. Flood vulnerability and risk assessment of urban traditional buildings in a heritage district of Kuala Lumpur, Malaysia. *Natural Hazards and Earth System Science* 20: 2221-2241.
16. Eda Yuhana Ariffin, Lee Yook Heng, **Tan Ling Ling**, Nurul Huda Abd Karim & Siti Aishah Hasbullah. 2020. A highly sensitive impedimetric DNA biosensor based on hollow silica microspheres for label-free determination of *E. coli*. *Sensors* 20: 1-16.
17. Edy Tonnizam Mohamad, Diyuang Li, Bhatawdekar Ramesh Murlidhar, Danial Jahed Armaghani, Khairul Anuar Kassim & **Ibrahim Komoo**. 2020. The effects of ABC, ICA, and PSO optimization techniques on prediction of ripping production. *Engineering with Computers* 36(4): 1355-1370.
18. Elia Syarafina Abdul Shakur, **Ahmad Fariz Mohamed**, Abdul Samad Hadi. 2020. Infrastructure access influences homeownership and quality of life in Kajang Central Selangor: concept of liveable city. *International Journal of Advanced Science and Technology* 29 (9s): 1550-1560.
19. Farid Dahdouh-Guebas, Gordon N. Ajonina, **Ahmad Aldrie Amir**, Dominic A. Andradi-Brown, Irfan Aziz, Thorsten Balke, Edward B. Barbier, Stefano Cannicci, Simon M. Cragg, Marília Cunha-Lignon, David J. Curnic, et al. 2020. Public perceptions of mangrove forests matter for their conservation. *Frontiers in Marine Science* 7: 1-5.
20. Fatma Nadiyah Abd Hamid, Wan Juliana Wan Ahmad, **Shaharuddin Mohamad Ismail**, Wickneswari Ratnam. 2020. Stand structure of shorea and spatial distribution of shorea acuminata in a rehabilitated area of Kenaboi forest reserve. *Journal of Tropical Forest Science* 32(3): 257-267.

21. **Goh Choo Ta, Mohamad Mahathir Amir Sultan, Lee Khai Ern, Mazlin Mokhtar, Tan Ling Ling, Azreen Shazwani Omar, Mohd Norhisyam Omar & Noor Hafizie Sulkafla.** 2020. A proposed integrated framework for chemical safety and chemical security. *Journal of Chemical Education* 97(7): 1769-1774.
22. Hamdi Agustin, Sri Indrastuti, Amris Rusli Tanjung, Syahdanur, Pipin Kurnia, **Sharifah Zarina Syed Zakaria, Nuriah Abd. Majid,** Kadir Arifin, Zuliskandar Ramli, Emrizal & **Muhammad Rizal Razman.** 2020. Analysis of islamic performance index on Sharia business unit in Indonesia towards sustainable development. *Ecology, Environment and Conservation* 26(3): 172-183.
23. Hamed Amiri; Sharareh Pourebrahim; Afshin Danehkar & **Mazlin Bin Mokhtar.** 2020. Location-based planning for sustainable agro-processing industries using land suitability assessment and DANP-VIKOR technique. *Arabian Journal of Geosciences* 13(144): 1-11.
24. Haris Hafizal Abd Hamid, Mohd Talib Latif, Royston Uning, Mohd Shahrul Mohd Nadzir, Md Firoz Khan, **Goh Choo Ta,** Narayanan Kannan. 2020. Observations of BTEX in the ambient air of Kuala Lumpur by passive sampling. *Environmental Monitoring and Assessment* 192: 1-14.
25. Hazzeman Haris, Ahmad Zaharin Aris, **Mazlin Mokhtar,** Ley Juen Looi. 2020. The accumulation of metals and methylmercury in *Nerita lineata* and the relation to intertidal surface sediment concentrations. *Chemosphere* 245: 1-11.
26. Jeningsih, **Tan Ling Ling,** Alizar Ulianas, Lee Yook Heng, Nur-Fadhilah Mazlan, Nur Diyana Jamaluddin, Nurul Yuziana Mohd. Yusof, Bahariah Khalid, **Goh Choo Ta.** 2020. Sandwich-type DNA micro-optode based on gold-latex spheres label for reflectance dengue virus detection. *Sensors* 20: 1-19.
27. Khairul Rahman, Yusri Munaf, Rahyunir Rauf, Ranggi Ade Febrian, **Muhammad Rizal Razman, Nuriah Abd. Majid & Sharifah Zarina Syed Zakaria.** 2020. Capacity building of local Government in financial management towards sustainable development goals (SDGs). *Ecology, Environment and Conservation* 26(4): 281-287.
28. Labonnah Farzana Rahman, **Lubna Alam** & Mohammad Marufuzzaman. 2020. Design of a low Power and High-Efficiency Charge Pump Circuit for RFID Transponder EEPROM. *Journal of Microelectronics, Electronic Components and Materials* 50(4): 255-262.
29. Labonnah Farzana Rahman, Mohammad Marufuzzaman, **Lubna Alam,** Lariyah Mohd Sidek & Mamun Bin Ibne Reaz. 2020. A low power and low ripple CMOS high voltage generator for RFID transponder EEPROM. *Plos ONE* 15(2): 1-14.
30. Lailatulhariha Mamat, Noor Ezlin Ahmad Basri, Shahrom Mohd. Zain, **Rahmah Elfithri.** 2020. Identification of best elements for practices in developing environmental sustainability assessment index. *Journal of Engineering Science and Technology* 3(2020): 66-77.
31. Leni Armayati , Ahmad Gimmy Siswandi , Zainal Abidin , T.B. Zulriska Iskandar , **Sharifah Zarina Syed Zakaria ,** Kadir Arifin & **Muhammad Rizal Razman.** 2020. Analysis of the Phenomenon on Motorcycle Gang among Students in Pekanbaru City as Urban Juvenile Delinquency. *Journal of Engineering and Applied Sciences* 15(1): 299-302.
32. M. R. M. Asyraf, M. R. Ishak, S. M. Sapuan, N. Yidris, R. A. Ilyas, M. Rafidah & **Muhammad Rizal Razman.** 2020. Evaluation of design and simulation of creep test rig for full-scale crossarm structure. *Advances in Civil Engineering* 2020: 1-10.

33. M. R. M. Asyraf, M. Rafidah, M. R. Ishak, S. M. Sapuan, N. Yidris, R. A. Ilyas, **Muhammad Rizal Razman**. 2020. Integration of TRIZ, morphological chart and ANP method for development of FRP composite portable fire extinguisher. *Polymer Composites* 41: 2917 -2932.
34. M. R. M. Asyraf, M. R. Ishak, M. Sapuan, N. Yidris, R. A. Ilyas, M. Rafidah, **Muhammad Rizal Razman**. 2020. Potential application of green composites for cross arm component in transmission tower: a brief review. *International Journal of Polymer Science*: 2020: 1-15.
35. Mahirah Taib, **Tan Ling Ling**, Nurul Huda Abd. Karim, **Goh Choo Ta**, Lee Yook Heng, Bahariah Khalid. 2020. Reflectance aptasensor based on metal salphen label for rapid and facile determination of insulin. *Talanta* 207: 1-9.
36. Maya Liyana Hamzah, **Ahmad Aldrie Amir**, Khairul Nizam Abdul Maulud, Sahadev Sharma, Fazly Amri Mohd, Siti Norsakinah Selamat, Othman A. Karim, Effi Helmy Ariffin & Rawshan Ara Begum. 2020. Assessment of the mangrove forest changes along the Pahang coast using remote sensing and GIS technology. *Journal of Sustainability Science and Management* 15(5): 43-58.
37. Maya Liyana Hamzah, Sahadev Sharma & **Ahmad Aldrie Amir**. 2020. Biomass dynamics of intact and regenerated mangrove stands of Kelang, Selangor, Malaysia. *Malayan Nature Journal* 72(4): 511-518.
38. Md. Abu Sayed Jewel, Md. Ayenuddin Haque, Ruhul Amin, Jakia Hasan, Lubna Alam, Subrata Mondal, Sharif Ahmed. 2020. Heavy metal contamination and human health risk associated with sediment of Ganges River (Northwestern Bangladesh). *Nature Environment and Pollution Technology* 19(2): 783-790.
39. Md. Azizul Bari, **Lubna Alam**, Rawshan Ara Begum, Labonnah Farzana Rahman & **Joy Jacqueline Pereira**. 2020. Analysis of Household Carbon Emission and Recommendations of Reduction Methods in Greater Kuala Lumpur. *International Journal of Disaster Recovery and Business Continuity* 11: 288-301.
40. Md. Sujahangir Kabir Sarkar, Rawshan Ara Begum, **Joy Jacqueline Pereira**. 2020. Impacts of climate change on oil palm production in Malaysia. *Environmental Science and Pollution Research* 2020: 1-11.
41. Mehe Zebunnesa Rahman, **Chamhuri Siwar** & Rawshan Ara Begum. 2020. Eradicating poverty among the waste workers through waste collection? A case study of Dhaka City. *International Journal of Environment and Waste Management* 26(1): 85-101.
42. Mehrdad Hadipour, Marzie Mirzaaghaee, Sharareh Pourebrahim, **Mazlin Mokhtar**, Morteza Naderi. 2020. Environmental optimization of urban transportation network, using GIS and genetic algorithm. *Arabian Journal of Geosciences* 13: 1-10.
43. **Minhaz Farid Ahmed**, **Mazlin Bin Mokhtar**. 2020. Assessing cadmium and chromium concentrations in drinking water to predict health risk in Malaysia. *International Journal of Environmental Research and Public Health* 17(8): 1-24.
44. **Minhaz Farid Ahmed**, **Mazlin Bin Mokhtar**. 2020. Treated water quality based on conventional method in Langat River Basin, Malaysia. *Environmental Earth Sciences* 79(18): 1-16.
45. **Minhaz Farid Ahmed**, **Mazlin Mokhtar**, **Lubna Alam**. 2020. Factor influencing people's willingness to participate in sustainable water resources management in Malaysia. *Journal of Hydrology: Regional Studies* 31: 1-20.

46. **Minhaz Farid Ahmed, Mazlin Mokhtar, Lubna Alam, Che Abd Rahim Mohamed, Goh Choo Ta.** 2020. Investigating the status of cadmium, chromium and lead in the drinking water supply chain to ensure drinking water quality in Malaysia. *Water* 12: 1-26.
47. Moh Irfan Mufti, Intam Kurnia, H Nanang, **Sharifah Zarina Syed Zakaria, Muhammad Rizal Razman.** 2020. The formulation design of regional regulations policy in the regional house of representatives: study on handling vagabonds and beggars in Palu city. *Asian Journal of Environment, History and Heritage* 4(1): 15-24.
48. Mohamed Ikhwan Nasir Mohamed Anuar, **Saiful Arif Abdullah.** 2020. Reappropriation of elevated highway residual space through green infrastructure planning. *Planning Malaysia Journal* 18(4): 203-219.
49. Mohd Fadhil H A Yazid, **Goh Choo Ta & Mazlin Mokhtar.** 2020. Classified chemicals in accordance with the globally harmonized system of classification and labeling of chemicals: Comparison of lists of the European Union, Japan, Malaysia and New Zealand. *Safety and Health at Work* 11(2): 152-158.
50. Mohd. Marufuzzaman, Labonnah Farzana Rahman, Nurliyana Mutalib, Lariyah Mohd Sidek & **Lubna Alam.** 2020. Analysis on optimizing the design of low power dynamic latch comparators. *Journal of Green Engineering* 10(9): 5627-5645.
51. Mohd Shahrul Mohd Nadzir, Maggie Chel Gee Ooi, Kemal Maulana Alhasa, Mohd Aftar Abu Bakar, Anis Asma Ahmad Mohtar, Mohd Fadzil Firdzaus Mohd Nor, Mohd Talib Latif, **Haris Hafizal Abd Hamid, Sawal Hamid Md Ali, Noratiqah Mohd Ariff, Johary Anuar, Fatimah Ahama.** 2020. The impact of movement control order (MCO) during pandemic COVID-19 on local air quality in an urban area of Klang Valley, Malaysia. *Aerosol and Air Quality Research* 20:1237-1248
52. Muhammad Khairil, Muhammad Isa Yusaputra, Nur Komariah, **Sharifah Zarina Syed Zakaria, Muhammad Rizal Razman.** 2020. Tv one coverage on the terrorism activity case of Santoso's group in central Sulawesi. *Asian Journal of Environment, History & Heritage* 4(1): 103-115.
53. **Muhammad Rizal Razman, Juliana Mohamed, Sharifah Zarina Syed Zakaria.** 2020. Governans kelestarian dalam melindungi warisan persekitaran Zon Pinggir Pantai: Kajian undang-undang tort tumpuan aspek kacauganggu persendirian di Malaysia. *Jurnal Arkeologi Malaysia* 33(2): 35-43.
54. **Muhammad Rizal Razman, Rozimah Muhamad Rasdi, Sharifah Zarina Syed Zakaria.** 2020. Pengurusan persekitaran tanah tinggi melalui undang-undang tort: Kajian perundangan Malaysia menyusuri aspek kecuiaan. *Jurnal Arkeologi Malaysia* 33(2): 59-66.
55. **Muhammad Rizal Razman, Radin Zulhazmi Radin Abdul Halim, Sharifah Zarina Syed Zakaria.** 2020. Precautionary principle in occupational safety and health sustainability from international legal perspectives. *Jurnal Arkeologi Malaysia* 33(2): 85-90.
56. **Murnira Othman, Mohd Talib Latif.** 2020. Pollution characteristics, sources, and health risk assessments of urban road dust in Kuala Lumpur city. *Environmental Science and Pollution Research* 27: 11227-11245.
57. **Murnira Othman, Mohd Talib Latif, Chong Zin Yee, Lina Khalida Norshariffudin, Azliyana Azhari, Nor Diana Abdul Halim, Azwani Alias, Nurzawani Md Sofwan, Haris Hafizal Abd Hamid, Yutaka Matsumi.** 2020. PM2.5 and ozone in office environments and their potential impact on human health. *Ecotoxicology and Environmental Safety* 194: 1-9.

58. Naziatul Aziah Mohd Radzi, **Lee Khai Ern**, Hazyati Hashim, Ahmad Fahme Mohd Ali, Normaizatul Akma Saidi, &Hasif Rafidee Hasbollah. 2020. Ce cause: the strategic csr during the pandemic outbreak. *PalArch's Journal of Archaeology of Egypt/Egyptology* 17(4): 485-498.
59. Nik Mohd. Shibli Nik Jaafar, Siti Mariam Muhammad Nor, Wan Bayani Wan Omar, & **Ahmad Aldrie Amir**. 2020. Mangroves of the east coast of Peninsular Malaysia. *Malayan Nature Journal* 72(4): 441-450.
60. Nor Diana Abdul Halim, Mohd Talib Latif, **Ahmad Fariz Mohamed**, Khairul Nizam Abdul Maulud, **Shaharudin Idrus**, Azliyana Azhari, **Murnira Othman**, Nurzawani Md Sofwan. 2020. Spatial assessment of land use impact on air quality in mega urban regions, Malaysia. *Sustainable Cities and Society* 63: 1-13.
61. Nor Fathiah Alias, Md Firoz Khan, Nor Asrina Sairi, Sharifuddin Md Zain, Hamidah Suradi, Haasyimah Ab Rahim, Tirthankar Banerjee, Md. Aynul Bari, **Murnira Othman & Mohd Talib Latif**. 2020. Characteristics, emission sources, and risk factors of heavy metals in PM2.5 from Southern Malaysia. *ACS Earth and Space Chemistry* 4: 1309-1323.
62. Norhayati Mohd Rawi, Nursabrina Syahirah Hairudin, Norbert Simon, **Lee Khai Ern**, Norsyafina Roslan. 2020. Hidrogeologi dan geokimia air bawah tanah di daerah Tampin, Negeri Sembilan, Malaysia. *Sains Malaysiana* 49(3): 493-502.
63. Normah Awang Besar, Herawandi Suardi, Mui-How Phua, Daniel James, **Mazlin Bin Mokhtar & Minhaz Farid Ahmed**. 2020. Carbon Stock and Sequestration Potential of an Agroforestry System in Sabah, Malaysia. *Forests* 11(210) : 1-15.
64. Norshaqinah Ayob, Muzneena Ahmad Mustapha, Juliana Senawi & **Norhayati Ahmad**. 2020. Herpetofauna roadkills on Langkawi island, peninsular Malaysia: the influence of landscape and season on mortality distribution. *Sains Malaysiana* 49(10): 2373-2382.
65. Nur Aizat Kamarulzaman, **Lee Khai Ern**, Kim Shyong Siow, **Mazlin Mokhtar**. 2020. Public benefit and risk perceptions of nanotechnology development: psychological and sociological aspects. *Technology in Society* 62: 1-9.
66. Nur Hairunnisa Razaai, **Saiful Arif Abdullah**, Mohammad Imam Hasan Reza. 2020. Identifying factors and predicting the future land-use change of protected area in the agricultural landscape of Malaysian peninsula for conservation planning. *Remote Sensing Applications: Society and Environment* 18: 1-14.
67. Nur Khairlida Muhamad Khair, **Lee Khai Ern, Mazlin Mokhtar**. 2020. Sustainable city and community empowerment through the implementation of community-based monitoring: A conceptual approach. *Sustainability* 12(22): 1-16.
68. Nur-Fadhilah Mazlan, **Tan Ling Ling**, Mohammad Imam Hasan Reza, **Goh Choo Ta**, Nurul Huda Abd. Karim, Lee Yook Heng. 2020. Managing dengue disaster: uncovering paramount community elements for DNA sensory tool accessibility in Malaysia. *Sains Malaysiana* 49(4): 743-754.
69. Nurfarahain Zainal, **Ahmad Fariz Mohammed, Shaharuddin Mohd Ismail**. 2020. Exploring connection between urban trees, recreational park and sustainable city in Seremban, Negeri Sembilan, Malaysia. *The Malayan Nature Journal* 72(3): 319-330.
70. **Nuriah Abd Majid**, Mohd Raihan Taha, Siti Nursakinah Selamat. 2020. Historical landslide event in Malaysia 1993-2019. *Indian Journal of Science and Technology* 13(33): 3387-3389.



71. **Nuriah Abd Majid &** Rozimah Muhamad Rasdi. 2020. Distribution and spatial pattern analysis on dengue cases in Bangi, Selangor, Malaysia. *International Journal of Advances in Science Engineering and Technology* 8(1):39-43.
72. Nurul Hidayah Abdul Razak, **Tan Ling Ling**, Siti Aishah Hasbullah, Lee Yook Heng. 2020. Reflectance chemosensor based on bis-thiourea derivative as ionophore for copper(II) ion detection. *Microchemical Journal* 153: 1-10.
73. P. Ragavan, K. Kathiresan, M. Zimmer, Renchao Zhou, Ahmad Aldrie Amir, P. M. Mohan, T. S. Rana. 2020. Three decades of global mangrove conservation - An overview. *Malayan Nature Journal* 72(4): 551-576.
74. Rahmah Elfithri, Abdullah MP, **Mazlin Mokhtar**, Toriman ME, Embi AF, Maulud KNA, Salleh S, Syah SH. 2020. Integrated river basin management approach to support flood disaster strategies for the Pahang River Basin, Malaysia. *Academia Journal of Scientific Research* 8(4): 132-139.
75. Raggi Ade Febrian, Khairul Rahman, Budi Muliando, Zaini Ali, **Muhammad Rizal Razman, Nuriah Abd. Majid, Sharifah Zarina Syed Zakaria**. 2020. Regional innovation system in Riau Province, Indonesia. *Ecology, Environment and Conservation* 26(4): 184-191.
76. Regina Sisika A. Sonthanasamy, Azwan Mat Lazim, Siti Nur Syazni Mohd Zuki, Doris Huai Xia Quay, **Tan Ling Ling**. 2020. Starch-based C-dots from Natural Gadong Tuber as pH Fluorescence Label for Optical Biosensing of Arginine. *Optics and Laser Technology* 130: 1-9.
77. Riyadh Abdulmalek Hassan, Lee Yook Heng, **Tan Ling Ling**. 2020. Highly sensitive fluorescence sensor for carrageenan from a composite methylcellulose/polyacrylate membrane. *Sensors* 20: 1-15.
78. Royston Uning, Mohd Talib Latif, **Murnira Othman**, Liew Juneng, Norfazrin Mohd Hanif, Mohd Shahrul Mohd Nadzir, Khairul Nizam Abdul Maulud, Wan Shafrina Wan Mohd Jaafar, Nor Fitrah Syazwani Said, Fatimah Ahamad & Mohd Sobri Takriff. 2020. A review of Southeast Asian oil palm and its CO<sub>2</sub> fluxes. *Sustainability* 12(2): 1-15.
79. **Shaharuddin Mohamad Ismail, Ahmad Aldrie Amir**, Nurul Hidayah Shamsul Ariffin & A. Latiff. 2020. Conservation and management of mangroves in Peninsular Malaysia: A historical perspective. *Malayan Nature Journal* 72(4): 425-439.
80. Sharif Shofirun Sharif Ali, **Muhammad Rizal Razman**, Azahan Awang. 2020. The estimation and relationship of domestic electricity consumption and appliances ownership in Malaysia's intermediate city. *International Journal of Energy Economics and Policy* 10(6): 116-122.
81. Sharif Shofirun Sharif Ali, **Muhamad Rizal Razman**, Azahan Awang. 2020. The nexus of population, gross domestic product growth, electricity generation, electricity consumption and carbon emissions output in Malaysia. *International Journal of Energy Economics and Policy* 10(3): 84-89.
82. **Sharifah Zarina Syed Zakaria**, Raja Nur Amirah Raja Abu Bakar, **Muhammad Rizal Razman**. 2020. Pembangunan pendidikan sains dan modal insan. *Jurnal Arkeologi Malaysia* 33: 27-33.
83. **Sharifah Zarina Syed Zakaria**, Raja Nur Amirah Raja Abu Bakar, **Muhammad Rizal Razman**. 2020. Pendidikan sains dan kelestarian alam sekitar. *Jurnal Arkeologi Malaysia* 33: 51-57
84. **Sharifah Zarina Syed Zakaria**, Raja Nur Amirah Raja Abu Bakar, **Muhammad Rizal Razman**. 2020. Pendidikan untuk pembangunan manusia. *Jurnal Arkeologi Malaysia* 33:1-5.

85. Siti Hasniza Muhammad Arshad, Asnor Muizan Hj. Ishak, **Nurfashareena Muhamad, Joy Jacqueline Pereira**. 2020. Penilaian keberkesanan terowong SMART Kuala Lumpur dalam menghalang banjir kilat. *GEOGRAFIA Online Malaysian Journal of Society and Space* 16(3):184-200.
86. Siti Syahirah Saffinee, Mohammad Aizat Jamaludin, Betania Kartika, Wan Jumanatun Nailiah Wan Muh Syahrir & **Sharina Abdul Halim**. 2020. A systematic review on tourism stakeholders roles practices towards sustainable tourism using khalifah perspectives. *Journal of Islamic, Social, Economics and Development* 5(34): 29-43.
87. Sri Maulidiah, Monalisa, Zaini Ali, **Sharifah Zarina Syed Zakaria, Nuriah Abd. Majid**, Kadir Arifin, Zuliskandar Ramli, Emrizal & **Muhammad Rizal Razman**. 2020. Environmental management: a study on the precautionary principle in Siak regency of Indonesia towards sustainable development. *Ecology, Environment and Conservation* 26(3): 131-135.
88. Suhaila Sapari, Nurul Hidayah Abdul Razak, Siti Aishah Hasbullah, Lee Yook Heng, Kwok Feng Chong & **Tan Ling Ling**. 2020. A regenerable screen-printed voltammetric Hg(II) ion sensor based on tris-thiourea organic chelating ligand grafted graphene nanomaterial. *Journal of Electroanalytical Chemistry* (878): 1-9.
89. Syed Sharizman Syed Abdul Rahim, Shamsul Azhar Shah, **Shaharudin Idrus**, Zahir Izuan Azhar, Mohd Rohaizat Hassan, Nazarudin Safian. 2020. Spatial analysis of food and waterborne diseases in sabah, Malaysia. *Sains Malaysiana* 49(7): 1627-1638.
90. Ulianas A., Andini O., Mawardi, Ramli & **Tan Ling Ling**. 2020. An ammonia optical sensor silica microspheres doped with nickel(II) ion and reflectance transduction. *Rasayan Journal of Chemistry* 13(2): 860-867.
91. Ulinsa, **Sharifah Zarina Syed Zakaria, Muhammad Rizal Razman**. 2020. Bolano language phonology system. *Asian Journal of Environment, History and Heritage* 4(1): 91-102.
92. Raja Zaidatul Akhmar Raja Jamaluddin, **Tan Ling Ling**, Kwok Feng Chong, Lee Yook Heng. 2020. An electrochemical DNA biosensor from graphene decorated with graphitic nanospheres. *Nanotechnology* 31: 1-13.
93. Xue Jin, **Rashid Sumaila** & Kedong Yin. 2020. Direct and indirect loss evaluation of storm surge disaster based on status and dynamic input-output models. *Sustainability* 12(7347): 1-12.
94. Yasemin D. Aktas, Kai Wang, Yu Zhou, **Murnira Othman**, Jenny Stocker, Mark Jackson, Christina Hood, David Carruthers, Mohd Talib Latif, Dina D Ayala, Julian Hunt. 2020. Outdoor thermal comfort and building energy use potential in different land-use areas in tropical cities: case of Kuala Lumpur. *Atmosphere* 11: 1-17.

#### **Prosiding/ Proceedings**

1. **Nuriah Abd Majid** & Rozimah Muhamad Rasdi. 2020. Dengue hotspot detection in Bangi, Selangor, Malaysia. 10th IGRSM International Conference and Exhibition on Geospatial & Remote (IGRSM 2020).
2. **Saiful Arif Abdullah**, Amal Najihah Muhamad Nor & Nur Hairunnisa Rafeai. 2020. Prediction 2035 of the landscape changes in Central Forest Spine 2, Peninsular Malaysia. Malaysia International

Biology Symposium 2019 (i-SIMBIOMAS 2019): Utilization of Biodiversity for the Greater Benefit of Mankind.

3. Siti Noor Baizura Bookhari, **Saiful Arif Abdullah** & Mohd Kher Hussien. 2020. Recreation resource impacts of Pantai Kerachut trail in Penang National Park. IOP Conf. Series: Earth and Environmental Science - The 4th International Symposium of Sustainable Landscape Development
4. Jamaiah Yahaya, Sazrol Fazli, Abdul Razak Hamdan, Aziz Deraman, Noor Zaitun Yahaya, M. Shahrir M. Zahari, Lilia Halim, **Tanot Unjah** & Izhar Abadi Ibrahim Rais. 2020. Software model for learning quarry industry impacts on green environment. 10th International Conference on Cloud Computing, Data Science & Engineering (Confluence).
5. Maya Liyana Hamzah, Sahadev Sharma & **A. Aldrie Amir**. 2020. The dynamics between intact, regenerating mangroves and mudflats of Klang, Selangor. Proceedings of the National Seminar on Mangrove and Coastal Forest 2019.
6. Anizah Mohd Salleh, Nor Zalina Harun & **Sharina Abdul Halim**. 2020. Urban agriculture as a community resilience strategy against urban food insecurity. 8th AMER International Conference on Quality of Life.
7. Najiha Jaffar, Nor Zalina Harun, **Saiful Arif Abdullah**. 2020. Values of Physical Landscape in Accommodating Social Sustainability of Traditional Malay Settlement. E-BPJ, Vol 5, no:15, Dec 2020

#### **Penerbitan Popular Dalam Bidang / Popular Publications**

1. **Ahmad Aldrie Amir**. 2020. Ban conversion of mangroves. *New Straits Times*, 25 Julai: 12
2. **Ahmad Aldrie Amir**. 2020. Hutan bakau simbol jati diri masyarakat pinggir pantai. *Berita Harian*, 08 April: 12.
3. **Ahmad Aldrie Amir**. 2020. Impact on mangroves. *New Straits Times*, 24 April: 21.
4. **Ahmad Aldrie Amir**. 2020. Natural resource management key to sustainability. *New Straits Times*, 11 September: 14.
5. **Ahmad Aldrie Amir**. 2020. Pandemic badly affecting nature tourism industry. *New Straits Times*, 1 Mei: 10.
6. **Ahmad Aldrie Amir**. 2020. Research drives excellence. *New Straits Times*, 19 Mei: 17.
7. **Ahmad Aldrie Amir**. 2020. Vital to respect ecosystems and diversity. *New Straits Times*, 30 Mei: 16.
8. **Ahmad Aldrie Amir**. 2020. Why it's crucial to protect environmentally sensitive areas. *New Straits Times*, 26 November: 14.
9. **Goh Choo Ta**. 2020. Hazard Pictograms on Hand Sanitizer. *Berita IKM - Chemistry in Malaysia*.
10. **Ibrahim Komoo**. 2020. Kaji perlombongan unsur nadi, elak isu alam sekitar. *Berita Harian*, 5 Disember: 10.
11. **Ibrahim Komoo**. 2020. Kembalikan kegemilangan tamadun Melayu. *Berita Harian*, 1- November: 10.

12. **Ibrahim Komoo**. 2020. Lantikan Menteri Kanan inovasi governans pembangunan lestari. *Berita Harian*, 15 Mac: 10.
13. **Ibrahim Komoo**. 2020. Masa untuk 'berlari' bangunkan geopark global. *Berita Harian*, 20 Julai: 12.
14. **Ibrahim Komoo**. 2020. Pastikan kelestarian sumber asli unik, langka. *Berita Harian*, 29 Jun: 10.
15. **Ibrahim Komoo**. 2020. Pemulihan Warisan: Kita Terlatih tapi Tidak Terdidik. *Berita Harian*, 21 Januari: 10.
16. **Ibrahim Komoo**. 2020. PKP beri implikasi berbeza kepelbagaian modal insan. *Berita Harian*, 04 Mei: 10.
17. **Ibrahim Komoo**. 2020. Realisasikan tindakan lestari penuhi aspirasi kemerdekaan. *Berita Harian*, 28 Ogos: 10.
18. **Ibrahim Komoo**. 2020. UKM pelopori Sains Moden, angkat status Bahasa Melayu. *Berita Harian*, 05 November: 10.
19. **Ibrahim Komoo**. 2020. Wujud dasar payung selesai konflik air negeri berjiran. *Berita Harian*, 13 Disember: 10.
20. **Ibrahim Komoo & Norhayati Ahmad**. 2020. Keistimewaan biologi Hutan Ulu Muda wajar dipulihara. *Berita Harian*, 02 Jun: 12.
21. **Joy Jacqueline Pereira**. 2020. Climate Change: Building Resilience in the ASEAN Community. *The ASEAN Issue* 5.
22. **Joy Jacqueline Pereira & Mohd Khairul Zain Ismail**. 2020. Kuala Lumpur consensus on S&T for disaster risk reduction. *Buletin SEADPRI No.20*.
23. **Joy Jacqueline Pereira & Nurul Syazwani Yahaya**. 2020. Promotes social entrepreneurship to build community resilience. *Buletin SEADPRI No.20*.
24. **Mohd Khairul Zain Ismail**. 2020. Malaysian youth perspectives on earthquakes and landslides in Malaysia. *Buletin SEADPRI No. 20. Buletin SEADPRI No. 20*.
25. **Mohd Khairul Zain Ismail**. 2020. U-INSPIRE Malaysia's contribution to COVID 19. *Buletin SEADPRI No. 20. Buletin SEADPRI No. 20*.
26. **Nurfashareena Muhamad & Mohd Khairul Zain Ismail** 2020. Climate change training for the youth and young professionals. *Buletin SEADPRI No. 20*.
27. Nurul Syazwani Yahaya & **Nurfashareena Muhamad**. 2020. Youth social entrepreneurship for building community resilience. *Buletin SEADPRI No. 20*.
28. **Tan Ling Ling & Mohd Faizol Markom**. 2020. Lawatan Kerjasama Penyelidikan oleh Akademik Newcastle University di SEADPRI. *Buletin SEADPRI No. 20*.
29. **Tan Ling Ling & Noor Shafirah Ramli**. 2020. LESTARI Postgraduate Colloquium 2020. *Buletin SEADPRI No. 20*.
30. **Tan Ling Ling**. 2020. On-site Rapid and Early Detection of COVID-19. *Buletin SEADPRI No. 20*.

### **Bahan Seminar/ Seminar Paper**

1. A. A. A. Rahman & **Nuriah Abd Majid**. 2020. Unmanned aerial vehicle capabilities on monitoring the impact of climate changes. International Conference on Earth Sciences and Environment 2020.
2. Chan Kok Meng & **Goh Choo Ta**. 2020. A project-based approach to teaching health risk assessment. Teaching & Learning Congress & Innovation Competition (kNOVASI 2020).
3. Jamaiah Yahaya, Sazrol Fazli, Aziz Deraman, Abdul Razak Hamdan, Lilia Halim, Noor Zaitun Yahaya & **Tanot Unjah**. 2020. Integrasi Model Pembelajaran 5E dalam Interaktif Kuari Maya. KNOVASI 2020.
4. Jamaiah Yahaya, Sazrol Fazli, Aziz Deraman, Abdul Razak Hamdan, Lilia Halim, Noor Zaitun Yahaya, **Tanot Unjah** & Izhar Abadi Ibrahim Rais. 2020. Model Interaktif Maya Berasaskan Alam Sekitar untuk Pembelajaran STEM. KNOVASI 2020.
5. Khairunisa Mohamad Noor & **Nuriah Abd Majid**. 2020. Review of Dengue outbreaks in Malaysia 1991 – 2020. International Conference on Earth Science and Environment 2020.
6. Nurafiqah Muhamad Nazi & **Nuriah Abd. Majid**. 2020. Spatial epidemiological trends of Dengue Fever in Bandar Baru Bangi during COVID-19 Pandemic. International Conference on Earth Sciences and Environment 2020.
7. **Rospidah Ghazali**. 2020. Feeding the future: development of Malaysian paddy sector. Siri Diskusi Kases 2020.
8. **Rospidah Ghazali**. 2020. Kajian penilaian ekonomi, kemudahterancaman dan penghidupan lestari nelayan sungai dan pengusaha akuakultur di Pahang. Kajian Penilaian Ekonomi, Kemudahterancaman Dan Penghidupan Lestari Nelayan Sungai Dan Pengusaha Akuakultur Di Pahang
9. **Rospidah Ghazali**. 2020. Peningkatan agrobiodiversiti melalui sekolah lapangan petani. Dialog Meja Bulat Peningkatan Agrobiodiversiti Melalui Sekolah Lapangan Petani.
10. **Rospidah Ghazali**, Abdullah Samad & **Jasni Yaakub**. 2020. Agrobiodiversiti sawah padi sebagai sumber jaminan bekalan makanan isirumah luar bandar. Dialog Meja Bulat Peningkatan Agrobiodiversiti Melalui Sekolah Lapangan Petani, 4 hb Febuari 2020. Universiti Utara Malaysia
11. Siti Norsakinah Selamat & **Nuriah Abd Majid**. 2020. Land Use Evaluation for South of Selangor Area Using Geospatial Approach. International Conference on Earth Sciences and Environment 2020.
12. Syaidatul Azwani Zulkafli & **Nuriah Abd Majid**. 2020. The implications of climate change on landslide. International Conference on Earth Sciences and Environment 2020.
13. Syaidatul Azwani Zulkafli & **Nuriah Abd Majid**. 2020. The occurrences of landslide in Penang: an overview. International Conference on Earth Sciences and Environment 2020.

### **Kertas Polisi / Policy Paper**

1. Mohd Izani Mohd Zain, Ibrahim Komoo, Engku Maimunah Mohd Tahir, Norzaini Azman, Badaruddin Mohamed, Siti Mariyam Shamsuddin, Kasim Thukiman, Normaz Wana Ismailk, Adlina

Abdul Halim, Zariat Abdul Rani, Iskandar Ishak & Nur Affifah Vanitha Abdullah. 2020. Pelan Induk Johor Sebagai Pusat Tamadun Melayu Antarabangsa 2021-2025.

### **Laporan Penyelidikan / Research report**

1. Azlina Binti Abdullah, Sivapalan A/L V. Selvadurai, **Sharifah Zarina Binti Syed Zakaria** & Novel Anak Lyndon. 2020. Penggunaan Telefon Pintar Dalam Kalangan Pekebun Kecil Kelapa Sawit Dan Kaitan Gaya Kognitif Dengan Tingkah Laku Pencarian Maklumat.
2. Doris Padmini A/P S. Selvaratnam, Zulkefly Abdul Karim, Mohd Azlan Shah Zaidi, Mustazar Mansur, Hazrul Izuan Shahiri, Mohd Adib Ismail, Hairunnizam Wahid, **Rospidah Ghazali** & Aainaa Harun. 2020. Laporan program advokasi kepenggunaan komuniti pangsapuri enggang.
3. **Goh Choo Ta, Mazlin Mokhtar, Lee Khai Ern, Vun Leong Wan, Lee Jing, Nurfashareena Muhamad, Sharina Abdul Halim, Tanot Unjah, Ku Adriani Ku Ayob, Mohamad Mahathir Amir Sultan, Rd Puteri Khairani Khirotdin & Wan Daraputri Razali**. 2020. National Policy on the Environment: State of the Environment in Malaysia (SOE).
4. **Jasni Yaakub** & Wan Zuhairi Wan Yaacob. 2020. Geology, hydrogeology and geochemistry of the proposed gold mining area in Tersang, Raub, Pahang.
5. **Jasni Yaakub** & Wan Zuhairi Wan Yaacob. 2020. Hydrogeology of the proposed gold mining area in Mukim Batu Talam and Mukim Sega, Raub, Pahang.
6. **Jasni Yaakub** & Wan Zuhairi Wan Yaacob. 2020. Sustainable groundwater condition at the proposed extension area for sand mining operation in Mukim Batang Berjuntai and Mukim Ulu Tengi, Kuala Selangor.
7. **Lee Jing, Tanot Anak Unjah & Sharina Binti Abdul Halim**. 2020. Bridging Natural Heritage and the Society through Narrative
8. **Lee Khai Ern, Mazlin Mokhtar**, Mohd. Raihan Bin Taha, Mohd Talib Bin Latif, Marlia Binti Mohd Hanafiah, **Goh Choo Ta**, Siow Kim Shyong & **Lubna Alam**. 2020. Public risk perception and ethical governance of nanotechnology for sustainability in Malaysia.
9. **Lubna Alam, Mazlin Mokhtar, Goh Choo Ta, Sharina Binti Abdul Halim & Lee Khai Ern**. 2020. Developing an online tool for the health risk/benefit information for consumers of fish and shellfish
10. **Mazlin Mokhtar, Lee Khai Ern & Minhaz Farid Ahmed**. 2020. Strengthening, Empowering and Uplifting Smart Partnerships for Sustainable Development Initiatives in Malaysia.
11. **Mazlin Mokhtar, Muhammad Rizal Bin Razman, Sharifah Zarina Binti Syed Zakaria, Wan Daraputri Binti Razali, Goh Choo Ta, Rd Puteri Khairani Binti Khirotdin, Mohamad Mahathir Bin Amir Sultan, Lee Khai Ern, Lubna Alam** & Rasyikah Binti Md Khalid. 2020. Mainstreaming, institutionalizing and up-scaling sustainable development and education for sustainable development initiatives in Malaysia for SDSN Malaysia Chapter.
12. **Muhammad Rizal Bin Razman, Sharifah Zarina Binti Syed Zakaria** & Azlina Binti Abdullah. 2020. Penelitian Bersama Sains dan Governans Kelestarian di Provinsi Sulawesi Tengah.
13. Norbert Simon, Kamal Roslan Mohamed, Che Aziz Bin Ali, **Lee Khai Ern** & Goh Thian Lai. 2020. Assessing The Relationship Of River Dynamics And Antrhopogenic Activities With River Bank Erosion, Moyog River, Sabah, Malaysia.

14. Nurul Huda Binti Abd Karim, Lee Yook Heng & **Tan Ling Ling**. 2020. Pembangunan sensor optikal pengesanan amina biogenik berasaskan kompleks logam bes Schiff sebagai penunjuk kesegaran makanan.
15. **Sarah Aziz Binti Abdul Ghani Aziz**. 2020. Penyediaan Laporan Tambahan Berkaitan Pelaksanaan Hasil Kajian ILBM Tasik Sembrong, Johor.
16. Shukor Bin Md. Nor, **Juliana Binti Senawi**, Farah Shafawati Binti Mohd Taib, Mohammad Saiful Bin Mansor. 2020. Evaluation of Three Natural Ecotourism Products for Sustainable Management of the Royal Belum State Park, Perak.
17. Shukor Bin Md. Nor, **Juliana Binti Senawi**, Farah Shafawati Binti Mohd Taib & Mohammad Saiful Bin Mansor. 2020. Impacts of Hulu Terengganu Hydroelectric Project Development on Wildlife Diversity, Distribution and Movement
18. Shukor Bin Md. Nor, **Juliana Binti Senawi**, Farah Shafawati Binti Mohd Taib & Mohammad Saiful Bin Mansor. 2020. Impact of Telom Hydroelectric Project (Telom HEP) on Wildlife within Central Forest Spine (CFS) Zone in Primary Linkage 6 (PL 6).
19. Shukor Bin Md. Nor, **Juliana Binti Senawi**, Farah Shafawati Binti Mohd Taib & Mohammad Saiful Bin Mansor. Management and Behaviour of the Captive Malayan Sun Bear (*Helarctos malayanus*) at the National Wildlife Rescue Centre (NWRC).
20. Siti Aishah Binti Hasbullah, Lee Yook Heng & **Tan Ling Ling**. 2020. Mercury ion Sensor Based on Newly Synthesise Thiourea Compound.
21. **Tan Ling Ling**, Lee Yook Heng, Nurul Izzaty Binti Hassan & Mohammad Imam Hasan Reza. 2020. Development of Solid-state DNA Optosensor for Visual Detection of Dengue Virus.
22. Wan Zuhairi Wan Yaacob & **Jasni Yaakub**. 2020. Sustainable groundwater condition at the proposed solid waste sanitary landfill area in Mukim Triang, Mersing, Johor.
23. Wan Zuhairi Wan Yaacob & **Jasni Yaakub**. 2020. The proposed solid waste sanitary landfill area in mukim Sedili Kecil, Kota Tinggi, Johor : hydrogeology and groundwater modelling

**Lain-lain / Others (standard, wawancara, bahan pengajaran 16)**

1. Abdul Latiff Ahmad, Azlen Ab Rahman, **Tanot Unjah**, Nur Haiqal Rawlins Una Abdullah, Mohd Fais Mansor, Harfiz Rasul Mohamad, Salwa Zahira Mukhtar, Muhd Habib Hashim, Azwin Darwish Ahmad & Siti Shafira Abd Majid. 2020. Values-based leadership in ASEAN higher education. Montaj Pembukaan AKEPT Global Series: University Presidents Forum in collaboration with UKM.
2. Abdul Latiff Ahmad, Azlen Ab Rahman, **Tanot Unjah**, Rosnani Boyak, Nur Haiqal Rawlins Una Abdullah, Mohd Fais Mansor, Harfiz Rasul Mohamad, Salwa Zahira Mukhtar, Muhd Habib Hashim, Azwin Darwish Ahmad, Siti Shafira Abd Majid. 2020. Values-based leadership in ASEAN higher education. Poster AKEPT Global Series: University Presidents Forum in collaboration with UKM.
3. Abdul Latiff Ahmad, Azlen Ab Rahman, **Tanot Unjah**, Nur Haiqal Rawlins Una Abdullah, Mohd Fais Mansor, Harfiz Rasul Mohamad, Salwa Zahira Mukhtar, Muhd Habib Hashim, Azwin Darwish Ahmad, Siti Shafira Abd Majid. 2020. Women leadership in international higher education. Poster AKEPT Global Series: University Presidents Forum in collaboration with UKM.

4. Abdul Latiff Ahmad, Azlen Ab Rahman, **Tanot Unjah**, Rosnani Boyak, Nur Haiqal Rawlins Una Abdullah, Mohd Fais Mansor, Harfiz Rasul Mohamad, Salwa Zahira Mukhtar, Muhd Habib Hashim, Azwin Darwish Ahmad, Siti Shafira Abd Majid. 2020. Poster AKEPT-UKM Talk: Global Series Webinar 1 'Entering the New Realm of International Higher Education'.
5. Abdul Latiff Ahmad, **Tanot Unjah**, Suhaili Alma'amun, Azrina Abdullah al-hadi, Juliana Senawi, Yanti Rosli, Raja M Zuha Raja Kamal Bashah, Zanisah Man, Roziah Sidik, Mimi Hani Abu Bakar, Zarina Othman, Salvinder Singh Karam Singh. 2020. UKM International Summer Programme.
6. **Lee Jing**. 2020. Draf Pelan Tindakan Pembangunan Geopark: Cadangan Struktur Pengurusan dan Pelaksanaan Geopark Gombak-Hulu Langat.
7. **Lee Jing**. 2020. Laporan Analisis dan Penemuan Geotapak: Undang-undang dan Governans Geopark Gombak-Hulu Langat
8. **Mazlin Mokhtar**. 2020. Man & Nature: Sustainable Development and The Critical Issues of Water Management. IKIM FM.
9. **Mazlin Bin Mokhtar & Minhaz Farid Ahmed**. 2020. How to live with Covid-19: lessons learned for environmental health & human health. "How to co-exist with COVID-19?", NCKU Overseas Hub in Malaysia, NCKU-UM Hub, Level 3, Block C, Faculty of Engineering, University of Malaya, 50603 Kuala Lumpur, Malaysia.
10. Norsyafina Roslan, Ismail C. Mohamad, Roslan @ Setebin Rajali, Mohd Nazan Awang, Dorsihah Mohamad Jais, Zuhar Zahir Tuan Harith, Mohammed Hatta Abdul Karim, **Jasni Yaakub**, Ismail Yusoff, Zaidulhair Jasmi, Wan Neqhaikal Wan Abdul Karim, Mohd Hariri Arifin. 2020. Garis Panduan Pembinaan Telaga Tiub Untuk Tujuan Eksplorasi, Pemantauan dan Pengeluaran dalam Penggunaan Sumber Air Bawah Tanah.
11. **Rospidah Ghazali**. 2020. Peningkatan agrobiodiversity melalui sekolah lapangan petani.
12. **Sarah Aziz & Bibi Zarina Omar**. 2020. Report on data and information gathering for SDG 6.5.1 Reporting and status of IWRM implementation: Malaysia
13. **Sarah Aziz & Bibi Zarina Omar**. 2020. Stakeholder consultation report for SDG 6.5.1 Malaysia.
14. **Sharina Abdul Halim**. 2020. Deraf pelan tindakan pembangunan geopark: warisan budaya dan sejarah
15. **Sharina Abdul Halim**. 2020. Laporan analisis dan penemuan geotapak: sejarah dan warisan budaya geopark Gombak- Hulu Langat.
16. **Tanot Unjah**. 2020. The morning run: urban flooding. BFM Radio.