



Curriculum Vitae

I. Personal Particulars

Name: **PROFESSOR DR. MOHD SUFFIAN YUSOFF**
 Position: PROFESSOR
 Deputy Head of Solid Waste Management Cluster
 (SWAM@USM)

Address: School of Civil Engineering, Universiti Sains Malaysia,
 Engineering Campus, 14300 Nibong Tebal, Pulau
 Pinang, MALAYSIA

Contact:
 Phone: +604 599 6223
 Fax: +604 599 6906
 Mobile: +6019 552 2914
 Email: suffian@usm.my



II. A. Academic and Professional Qualifications

Year	Degree	Discipline	University
2006	PhD	Environmental Engineering	Universiti Sains Malaysia
2000	MSc	Mineral Resources Engineering	Universiti Sains Malaysia
1995	Bac.Agric.Sc. (Hons.)	Agricultural Science	Universiti Pertanian Malaysia

III. Work Experience

Year	Position	Field of Work	Place of Work
2017- to date	Professor, VK7	Environmental Engineering	Universiti Sains Malaysia
2012- 2017	Associate Professor, DS54	Environmental Engineering	Universiti Sains Malaysia
2008 –2012	Senior Lecturer, DS52	Environmental Engineering	Universiti Sains Malaysia
2007-2008	Lecturer, DS45	Environmental Engineering	Universiti Sains Malaysia
2006-2007	Senior Manager	Landfill Management,	Idaman Bersih Sdn. Bhd.
2004-2006	Manager	Solid Waste Management	Idaman Bersih Sdn. Bhd.
2001-2003	Research Fellow, NSF	Landfill Leachate Treatment	Universiti Sains Malaysia
2000	Research Assistant	Landfill Leachate Treatment	Universiti Sains Malaysia

IV. Main Current Research Areas

1. Solid waste management
2. Leachate treatment technology
3. Water and wastewater treatment

RESEARCH AND PUBLICATION

Journal/E-Journal/Journal Proceeding

1. Ahmed, Z., Yusoff, M. S., NH, M. K., & Abdul Aziz, H. (2021). Synthesis of Natural Starch from *Elaeis guineensis* Trunk Biomass Applying Bisulphite Steeping Method: Optimization by RSM. *Journal of the Air & Waste Management Association*, (just accepted). doi.org/10.1080/10962247.2021.1919240
2. Abd Hamid, M. A., Aziz, H. A., Yusoff, M. S., & Rezan, S. A. (2021). A continuous clinoptilolite augmented SBR-electrocoagulation process to remove concentrated ammonia and colour in landfill leachate. *Environmental Technology & Innovation*, 101575.
3. Niza, N. M., Yusoff, M. S., Zainuri, M. A. A. M., Emmanuel, M. I., Shadi, A. M. H., Hanif, M. H. M., & Kamaruddin, M. A. (2021). Removal of ammoniacal nitrogen from old leachate using batch electrocoagulation with vibration-induced electrode plate. *Journal of Environmental Chemical Engineering*, 9(2), 105064.
4. Niza, N.M., Razak, N.A., Yusoff, M.S., Zainuri, M.A.A.M., Emmanuel, M.I., Shadi, A.M.H., Hanif, M.H.M. and Kamaruddin, M.A., 2021. Hydrodynamic study of bubble characteristics and bubble rise velocities in batch electrocoagulation with vibration-induced electrode plates using the PIV technique. *Separation and Purification Technology*, 258, p.118089.
5. Yusoff, M. S., Kamaruddin, M. A., Ijanu, E. M., Jaafar, M. H., Alrozi, R., & Omar, K. F. M. (2021). Synthesis and application of coagulant derived from *Durio zibethinus* for emerging contaminants removal from landfill leachate. *International Journal of Environmental Engineering*, 11(1), 39-52.
6. Yusoff, M. S., Adam, N. H., Watalinggam, K., Aziz, H. A., & Alazaiza, M. Y. (2021). Effectiveness of Oil Palm Frond Activated Carbon for Removing COD, Color and Fe from Landfill Leachate. *Journal of Engineering & Technological Sciences*, 53(1).
7. Ahmed, Z., Yusoff, M. S., Kamal, N. M., & Aziz, H. A. (2020, December). Application of Natural Starch Coagulant Followed by Membrane Filtration for the Elimination of Color from Stabilized Leachate. In *Third International Conference on Separation Technology 2020 (ICoST 2020)* (pp. 82-90). Atlantis Press.
8. Hamid, M. A. A., Aziz, H. A., Yusoff, M. S., & Rezan, S. A. (2020). Clinoptilolite augmented electrocoagulation process for the reduction of high-strength ammonia and color from stabilized landfill leachate. *Water Environment Research*. Volume 93, Issue 4 Pages 596-607
9. Ahmed, Z., Yusoff, M. S., & Mohktar Kamal N.H, (2020, September). Application of natural coagulants for sustainable treatment of semi-aerobic landfill leachate. In *AIP Conference Proceedings* (Vol. 2267, No. 1, p. 020024). AIP Publishing LLC.
10. Niza, N. M., Yusoff, M. S., Zainuri, M. A. A. M., Emmanuel, M. I., Shadi, A. M. H., & Kamaruddin, M. A. (2020). Performance of batch electrocoagulation with vibration-induced electrode plates for landfill leachate treatment. *Journal of Water Process Engineering*, 36, 101282.
11. Shadi, A. M. H., Kamaruddin, M. A., Niza, N. M., Emmanuela, M. I., Shaah, M. A., Yusoff, M. S., & Allafi, F. A. (2020). Characterization of stabilized leachate and evaluation of LPI from sanitary landfill in Penang, Malaysia. *Desalination and Water Treatment*, 189, 152-164.
12. Hamid, M. A. A., Aziz, H. A., Yusoff, M. S., & Rezan, S. A. (2020). Optimization and Analysis of Zeolite Augmented Electrocoagulation Process in the Reduction of High-Strength Ammonia in Saline Landfill Leachate. *Water*, 12(1), 247.
13. Farraji, H., Mojiri, A., & Yusoff, M. S. (2019). Smart microbial sources Management for Treatment: palm oil mill effluent and landfill leachate. In *Handbook of Research on Implementation and Deployment of IoT Projects in Smart Cities* (pp. 350-369). IGI Global.
14. Adam, N. H., Yusoff, M. S., & Halim, H. (2019, August). Oil Palm Frond (OPF) Based Activated Carbon for Leachate Treatment. In *AWAM International Conference on Civil Engineering* (pp. 761-770). Springer, Cham.

15. Noorzalila Muhammad Niza, Madu Ijanu Emmanuel, Abdubaki Mohamed, Hussein, Mohd Suffian Bin Yusoff, Mohamad Anuar Bin Kamaruddin, 2019, Role of turbulent flow and gas bubbles in enhancing mass transfer in batch electrocoagulation: a brief review. *Desalination and Water Treatment*, 161, pp.35-47.
16. Yusoff, M. S., Aziz, H. A., Alazaiza, M. Y., & Rui, L. M. (2019). Potential use of oil palm trunk starch as coagulant and coagulant aid in semi-aerobic landfill leachate treatment. *Water Quality Research Journal*, 54(3), 203-219.
17. Sa'at, S. K. M., Zaman, N. Q., Yusoff, M. S., & Farraji, H. (2019). The selection of palm oil mill effluent for phytoremediation treatment system using *Cyperus alternifolius*. *International Journal of Environmental Engineering*, 10(2), 106-117.
18. Kamaruddin, M. A., Halid, N. F. H. M., Yusoff, M. S., Zainol, M. R. R. M. A., & Alrozi, R. (2019, July). TOC, TKN and C/N ratio fractionation of organic wastes under elevated temperature regime by using hydrothermal approach. In *AIP Conference Proceedings* (Vol. 2129, No. 1, p. 020083). AIP Publishing.
19. Sa'at, S. K. M., Zaman, N. Q., & Yusoff, M. S. (2019, July). Effect of hydraulic retention time on palm oil mill effluent treatment in horizontal sub-surface flow constructed wetland. In *AIP Conference Proceedings* (Vol. 2124, No. 1, p. 020015). AIP Publishing.
20. Adam, N. H., Yusoff, M. S., Bakar, S. N. A., Aziz, H. A., & Halim, H. (2019). Potential of Nano-Ionic Copper Doped Activated Carbon as Adsorbent in Leachate Treatment. *Materials Today: Proceedings*, 17, 1169-1175.
21. Mohd Suffian Bin Yusoff, Mohamad Anuar Bin Kamaruddin, Hamidi Bin Abdul Aziz @ Abdul Rahman, Nastaain Binti Qamaruz Zaman, 2018, Municipal Solid Waste Composition, Characterization And Recyclables Potential: A Case Study Evaluation In Malaysia, *Journal of Solid Waste Technology and Management*.
22. Mohd Faiz Muaz Ahmad Zamri, Mohd Suffian Bin Yusoff, Hamidi Bin Abdul Aziz @ Abdul Rahman, 2018, The comparison of Durio Zibethinus seed starch extraction for landfill leachate treatment., *Materials Research Express*, 5:, 075507.
23. Mohd Suffian Yusoff, Hamidi Abdul Aziz, Mohd Faiz Muaz Ahmad Zamri, Ahmad Zuhairi Abdullah, Noor Ezlin Ahmad Basri 2018 Floc behavior and removal mechanisms of cross-linked Durio zibethinus seed starch as a natural flocculant for landfill leachate coagulation-flocculation treatment, *Waste management (New York, NY)*, <https://doi.org/10.1016/j.wasman.2018.01.016>
24. Yusoff, M. S., Azwan, A. M., Zamri, M. F. M. A., & Aziz, H. A. (2017, October). Removal of colour, turbidity, oil and grease for slaughterhouse wastewater using electrocoagulation method. In *AIP Conference Proceedings* (Vol. 1892, No. 1, p. 040012). AIP Publishing.
25. Alrozi, R., Zubir, N. A., Kamaruddin, M. A., Yusoff, S. N. F. M., & Yusoff, M. S. (2017, September). Removal of organic fractions from landfill leachate by casuarina equisetifolia activated carbon: Characteristics and adsorption mechanisms. In *AIP Conference Proceedings* (Vol. 1885, No. 1, p. 020139). AIP Publishing.
26. Sa'at, S. K. M., Zaman, N. Q., Yusoff, S. M., & Ismail, H. A. (2017, October). Investigation of the potential of *Cyperus alternifolius* in the phytoremediation of palm oil mill effluent. In *AIP Conference Proceedings* (Vol. 1892, No. 1, p. 040009). AIP Publishing.
27. Kamaruddin, M. A., Yusoff, M. S., Nordin, M. F. M., Zawawi, M. H., & Alrozi, R. (2017, September). Treatability of drinking water parameters from Kerian River by using carbon-mineral composite: Batch mechanisms and characterization study. In *AIP Conference Proceedings* (Vol. 1885, No. 1, p. 020134). AIP Publishing.
28. Kamaruddin, M. A., Alrozi, R., Aziz, H. A., Han, T. Y., & Yusoff, M. S. (2017, September). Removal of phenol from synthetic wastewater using carbon-mineral composite: Batch mechanisms and composition study. In *AIP Conference Proceedings* (Vol. 1885, No. 1, p. 020140). AIP Publishing.
29. Salleh, A. H., Ahamad, M. S. S., Yusoff, M. S., & Aziz, H. A. (2017, October). Multiple criteria landfill site selection method incorporating the NIMBY factors. In *AIP Conference Proceedings* (Vol. 1892, No. 1, p. 130003). AIP Publishing.
30. Kamaruddin, M. A., Yusoff, M. S., Rui, L. M., Isa, A. M., Zawawi, M. H., & Alrozi, R. (2017). An overview of municipal solid waste management and landfill leachate treatment: Malaysia and Asian perspectives. *Environmental Science and Pollution Research*, 1-33.

31. Ghani, Z. A., Yusoff, M. S., Zaman, N. Q., Andas, J., & Aziz, H. A. (2017, October). Adsorptive removal of dissolved organic matter (DOM) in landfill leachate by iron oxide nanoparticles (FeONPs). In AIP Conference Proceedings (Vol. 1892, No. 1, p. 040016). AIP Publishing.
32. Adam, N. H., Yusoff, M. S., & Aziz, H. A. (2017, October). Biodegradability of semi-aerobic leachate. In AIP Conference Proceedings (Vol. 1892, No. 1, p. 040010). AIP Publishing.
33. Ahmad, S. Z., Ahamad, M. S. S., Yusoff, M. S., & Abujayyab, S. K. (2017, October). Enhanced Fuzzy-OWA model for municipal solid waste landfill site selection. In AIP Conference Proceedings (Vol. 1892, No. 1, p. 040004). AIP Publishing.
34. Ibrahim, N., Aziz, H. A., & Yusoff, M. S. (2017, October). Removal of total coliform and E. coli using zeliac as filter media. In AIP Conference Proceedings (Vol. 1892, No. 1, p. 070008). AIP Publishing.
35. Aziz, H.A., Bakar, B.H.A., Johari, M.A.M., Keong, C.K., Yusoff, M.S., Hasan, M.R.M., Ramli, M.H. and Halim, H. eds., 2017, October. Preface: Proceedings of the International Conference of Global Network for Innovative Technology and AWAM International Conference in Civil Engineering 2017. In AIP Conference Proceedings (Vol. 1892, No. 1, p. 010001). AIP Publishing.
36. Moon, W. C., Jbara, M. H., Palaniandy, P., & Yusoff, M. S. (2017, October). Shrimp pond wastewater treatment using pyrolyzed chicken feather as adsorbent. In AIP Conference Proceedings (Vol. 1892, No. 1, p. 040022). AIP Publishing.
37. Kamaruddin, M.A., Abdullah, M.M.A., Yusoff, M.S., Alrozi, R. and Neculai, O., 2017, June. Coagulation-Flocculation Process in Landfill Leachate Treatment: Focus on Coagulants and Coagulants Aid. In Materials Science and Engineering Conference Series (Vol. 209, No. 1, p. 012083)
38. Kamaruddin, M. A., Yusoff, M. S., Ibrahim, N., & Zawawi, M. H. (2017, April). Resource recovery from municipal solid waste by mechanical heat treatment: An opportunity. In AIP Conference Proceedings (Vol. 1835, No. 1, p. 020031). AIP Publishing.
39. Zamri, M.F.M.A., Kamaruddin, M.A., Yusoff, M.S., Aziz, H.A. and Foo, K.Y., 2017. Semi-aerobic stabilized landfill leachate treatment by ion exchange resin: isotherm and kinetic study. Applied Water Science, 7, pp.581-590.
40. Ghani, Z.A., Yusoff, M.S., Zaman, N.Q., Zamri, M.F.M.A. and Andas, J., 2017. Optimization of preparation conditions for activated carbon from banana pseudo-stem using response surface methodology on removal of color and COD from landfill leachate. Waste management (New York, NY), 62, p.177
41. Kamaruddin, M.A., Yusoff, M.S., Ibrahim, N. and Zawawi, M.H., 2017, April. Resource recovery from municipal solid waste by mechanical heat treatment: An opportunity. In American Institute of Physics Conference Series (Vol. 1835, No. 2
42. Wei Chek Moon, Puganeshwary Palaniandy, Mohd Suffian Yusoff, Irvan Dahlan, 2017, Adsorption studies on heavy metal removal from synthetic wastewater by pyrolyzed chicken feather fiber, Desalination and Water Treatment, 62, 307–315.
43. Kamaruddin M A, Yusoff M S, Aziz H A and Alrozi R, 2017, Statistical Determination for Eco-Friendly Composite Adsorbent Preparation for the Removal of COD, Colour and Cu(II) from Textile Effluent Journal of Scientific & Industrial Research Vol. 76, August 2017, pp. 506-511
44. Mohamad Anuar Kamaruddin, **Mohd Suffian Yusoff**, Hamidi Abdul Aziz, Mohd Nordin Adlan, Nastein Qamaruz Zaman, Noor Zalina Mahmood, 2016 Assessment of municipal solid waste generation, composition and recyclable potential at selected Kelantan dumping sites, Malaysia, Journal of Scientific Research and Development, 3 (5), 204 -211
45. Mohamad Anuar Kamaruddin, Mohd Faiz Muaz Ahmad Zamri, **Mohd Suffian Yusoff**, Mohd Hafiz Zawawi, 2016, Cotton Dyeing wastewater characteristics and its treatment efficiency by using coconut shell carbon and limestone powder, Journal of Scientific Research and Development 3 (5): 221-228.
46. Abdul Hakim Salleh, Mohd Sanusi S. Ahamad and **Mohd Suffian Yusoff**, 2016, Applying AN Integrated Route Optimization Method as a Solution to the Problem of Waste Collection, International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 2016, ISPRS - International

- Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLII-4/W1, 2016, pp.103-110
47. **Mohd Suffian Yusoff**, Noor Aina Mohamad Zuki and Mohd Faiz Muaz Ahmad Zamri, Effectiveness Of Jackfruit Seed Starch As Coagulant Aid In Landfill Leachate Treatment Process, International Journal of GEOMATE, Oct., 2016, Vol. 11, Issue 26, pp. 2684-2687,
 48. Siti Zubaidah Ahmad, Mohd Sanusi S. Ahamad & Sohaib K.M. Abujayyab Mohd Suffian Yusoff, Najat Qader Omar, 2016, Spatial compliances study of present landfill siting to Malaysian standard, Engineering Challenges for Sustainable Future, Taylor & Francis Group, London, 365-370
 49. Abdulrahman, A., Nawawi, M., Saad, R., Abu-Rizaiza, A. S., **Yusoff, M. S.**, Khalil, A. E., & Ishola, K. S. (2016). Characterization of active and closed landfill sites using 2D resistivity/IP imaging: case studies in Penang, Malaysia. Environmental Earth Sciences, 75(4), 1-17.
 50. Talib, S. H. A., **Yusoff, M. S.**, Hasan, Z. A., Ismail, W. R., & Abustan, M. S. (2016, January). Nutrient Concentration Distribution in Sediment and Overlying Water at Bukit Merah Reservoir, Perak. In MATEC Web of Conferences (Vol. 47). EDP Sciences.
 51. Kamaruddin, M., **Yusoff, M. S.**, Aziz, H. A., Alrozi, R., & Zawawi, M. H. (2016). Optimization of Calcium Alginate Preparation in Aqueous by Response Surface Methodology. Journal of Engineering Research and Technology, 1(3).
 52. Kamaruddin, Mohamad Anuar, **Mohd Suffian Yusoff**, Hamidi Abdul Aziz, and Yung-Tse Hung. "Sustainable treatment of landfill leachate." Applied Water Science June 2015, Volume 5, Issue 2, pp 113-126
 53. Nur Shaylinda Mohd Zin, Hamidi Abdul Aziz, Mohd Nordin Adlan, Azlan Ariffin, Mohd Suffian Yusoff, Ivan Dahlan, 2015, "A Comparative Study of Floc and Sludge of Leachate under Different Types of Coagulants, Applied Mechanics and Materials, Vol. 802, pp. 406-411,
 54. Mohd Faiz Muaz Ahmad Zamri, Mohd Suffian Yusoff, Hamidi Abdul Aziz, Mohd Anuar Kamaruddin, 2015, Optimization of COD and Color Removal for Matang's Landfill Leachate Treatment by Using Polyaluminum Chloride, Applied Mechanics and Materials, Vol. 802, pp. 478-483.
 55. Siti Zubaidah Ahmad, Mohd Sanusi S. Ahamad, Mohd Suffian Yusoff, 2015, A Comprehensive Review of Environmental, Physical and Socio-Economic (EPSE) Criteria for Spatial Site Selection of Landfills in Malaysia", Applied Mechanics and Materials, Vol. 802, pp. 412-418
 56. Zaidi A. Ghani, **Mohd Suffian Yusoff**, Jeyashelly Andas, 2015, Review on Applications of Nanoparticles in Landfill Leachate Treatment", Applied Mechanics and Materials, Vol. 802, pp. 525-530
 57. Nurazim Ibrahim, Hamidi Abdul Aziz, Mohd Suffian Yusoff, 2015, Natural Organic Matter and Disinfectant By-Products (DBPs) Formation Potential in Agriculture Area in Malaysia", Applied Mechanics and Materials, Vol. 802, pp. 513-518
 58. **Mohd Suffian Yusoff**, Noor Aina Mohamad Zuki, 2015, Optimum of Treatment Condition for *Artocarpus heterophyllus* Seeds Starch as Natural Coagulant Aid in Landfill Leachate Treatment by RSM", Applied Mechanics and Materials, Vol. 802, pp. 484-489
 59. Mohamad Anuar Kamaruddin, **Mohd Suffian Yusoff**, Abdul Hadi Ahmad, 2015, Waste to Wealth: Recovery of Recyclable Items and Biodegradable Wastes from Night Markets at Seberang Perai Selatan, Penang", Applied Mechanics and Materials, Vol. 802, pp. 543-548
 60. Zamri, M. F. M. Ahmad, **Yusoff, M. S.**, Aziz, H. A., and Muhammad, D., 2015 A Glance at the World, Waste Management, Volume 41, Pages: I-II, DOI: 10.1016/S0956-053X(15)00344-X
 61. Yung-Tse Hung, Hamidi Abdul Aziz, **Mohd Suffian Yusoff**, Mohamad Anuar Kamaruddin, Ruth Yu-Li Yeh, Lian-Huey Liu, Christopher Robert Huhnke, Yen-Pei Fu, 2015, Chemical Waste and Allied Products, Water Environment Research 87 (10), 1312-1359
 62. Nurazim Ibrahim, Hamidi Abdul Aziz, Mohd Suffian Yusoff, 2015, River Bank Filtration: Study of Langat River Water and Borehole Water Quality, Applied Mechanics and Materials 773, 1194-1198.
 63. Nurazim Ibrahim, Hamidi Abdul Aziz, Mohd Suffian Yusoff, 2015, Heavy Metals Concentration In River And Pumping Well Water For River Bank Filtration (RBF) System: Case Study In Sungai Kerian, Jurnal Teknologi, 74:11 pp59-67

64. Muhammad Umar, Hamidi Abdul Aziz, Mohd Suffian Yusoff , 2015, Variability in the Concentration of Indicator Bacteria in Landfill Leachate-A Comparative Study, *Water Environment Research* 87 (3), 223-226
65. Mohd Faiz Muaz Ahmad Zamri, Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Hamidi Abdul Aziz, and Keng Yuen Foo. (2015). Semi-aerobic stabilized landfill leachate treatment by ion exchange resin: isotherm and kinetic study. *Applied Water Science*, 1, 11.
66. Nur Shaylinda Mohd Zin, Hamidi Abdul Aziz, Mohd Nordin Adlan, Azlan Ariffin, Mohd Suffian Yusoff, and Ivan Dahlan. (2014) "Application of a pre-hydrolyzed iron coagulant on partially stabilized leachate." *Desalination and Water Treatment*: 54 (2015) 2951–2958
67. Kamaruddin, Mohamad Anuar, Mohd Suffian Yusoff, Hamidi Abdul Aziz, and Rashidah Alrozi. 2015, Application of response surface methodology for the preparation of calcium alginate in aqueous, *International Journal of Current Research and Academic Review*, 112-122
68. Mostafa Mohammadizaroun and Mohd Suffian Yusoff, 2014, Review On Landfill Leachate Treatment Using Physical–Chemical Techniques: Their Performance And Limitations *International Journal of Current Life Sciences - Vol.4, Issue, 12, pp, 12068-12074*
69. Mostafa Mohammadizaroun, Mohd Suffian Yusoff, 2014, Treatment of Leachate by Electrocoagulation Technique Using Iron And Hybrid Electrodes, *International Journal of Scientific Research in Knowledge*, 2(11), pp. 497-508
70. Ling, S. K.; Hamidi, A. A.; Mohd Suffian, Y. 2014 Study on Municipal Solid Waste Management in Malaysia: Case Study in Kuching, Miri And Sibul *Advances in Environmental Biology;2014 Special, Vol. 8 Issue 15, p121-124*
71. Mohd Faiz Muaz Ahmad .Zamri., Mohd Suffian Yusoff., Hamidi Abdul Aziz (2014) The Study of Flocculant Characteristics for Landfill Leachate Treatment Using Starch Based Flocculant from *Durio Zibethinus* Seed, *Advances in Environmental Biology*, 8(15) Special 2014, Pages: 129-135
72. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Hamidi Abdul Aziz (2014) Preparation And Characterization Of Alginate Beads By Drop Weight, *International Journal of Technology 2*: 121-132
73. Siti Zubaidah Ahmad, Mohd Sanusi S. Ahamad, Mohd Suffian Yusoff; 2014, Spatial effect of new municipal solid waste landfill siting using different guidelines, *Waste Management & Research*, 32, 1, 24-33,
74. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff; Hamidi Abdul Aziz, Rasyidah Alrozi; 2014, Preparation and Characterization of Activated Carbon Embedded Clinoptilolite Adsorbent for Colour Removal from Textile Effluent, *Journal of Materials and Chemical Engineering*, 2, 1, pp 1-10,
75. MA Kamaruddin, MS Yusoff, HA Aziz, R Alrozi, MH Zawawi, 2014, Optimization of Calcium Alginate Preparation in Aqueous by Response Surface Methodology, *Journal of Engineering Research and Technology* 1 (3), 95-102
76. Nur Shaylinda Mohd Zin, Hamidi Abdul Aziz, Nordin Mohd Adlan, Azlan Ariffin, Mohd Suffian, Yusoff, and Ivan Dahalan, 2013, Removal of Color, Suspended Solids, COD and Ammonia from Partially Stabilize Landfill Leachate by Using Iron Chloride through Coagulation Process, *International Journal of Engineering and Technology*, Vol. 5, No. 6, -pp736-739
77. Nur Shaylinda Mohd Zin, Hamidi Abdul Aziz, Nordin Mohd Adlan, Azlan Ariffin, Mohd Suffian, Yusoff, and Ivan Dahalan, 2013 Suspended Solid, Color, Chemical Oxygen Demand, and Ammonia Removal from Partially Stabilized Leachate by Prehydrolyzed Iron under the Influence of Basicity, Dose, and pH, *Caspian Journal of Applied Sciences Research*, 2(4), pp. 124-130.
78. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Hamidi Abdul Aziz, Nur Khairiyah Basri, 2013, Removal of COD, ammoniacal nitrogen and colour from stabilized landfill leachate by anaerobic organism, *Applied Water Science*, 3, 2, 359-366, Springer-Verlag
79. Kamaruddin, Mohamad Anuar; Mohd Suffian Yusoff, Aziz, Hamidi Abdul; Alrozi, Rasyidah , 2013,Preparation of rice husk carbon-clinoptilolite composite adsorbent for color removal from real textile wastewater: Effects of operating conditions, *Business Engineering and Industrial Applications Colloquium (BEIAC)*, 2013 IEEE, pp494-499, ,

80. Kamaruddin, Mohamad Anuar, Mohd Suffian Yusoff; Aziz, Hamidi Abdul; Alrozi, Rasyidah; 2013, Removal of direct blue 71 from aqueous solution by adsorption on rice husk carbon-clinoptilolite composite adsorbent, Business Engineering and Industrial Applications Colloquium (BEIAC), 2013 IEEE, 520-525, , IEEE
81. Zakarya, Irnis Azura; Abustan, Ismail; Ismail, Norli; Mohd Suffian Yusoff; 2013, Production of methane gas from organic fraction municipal solid waste (OFMSW) via anaerobic process: application methodology for the Malaysian condition, International Journal of Environment and Waste Management, 12, 2, pg121-129, Inderscience Publishers
82. Akinbile, Christopher O.; Mohd Suffian Yusoff; Talib, Siti Hidayah Abu; Hasan, Zorkeflee Abu; Ismail, Wan Roslan; Sansudin, Ummunajwa; (2013). Qualitative analysis and classification of surface water in Bukit Merah Reservoir in Malaysia. Water Science & Technology: Water Supply, 13(4), 1138-1145.
83. Nur Shaylinda Mohd Zin.; Aziz, Hamidi Abdul; Adlan, Nordin Mohd; Ariffin, Azlan; Mohd Suffian Yusoff.; Dahlan, Irvan; 2013, A Comparative Study of Matang and Kuala Sembeling Landfills Leachate Characteristics, Applied Mechanics and Materials, 361, , 776-781, ,
84. Kamaruddin, Mohamad Anuar.; Mohd Suffian Yusoff; Aziz, Hamidi Abdul; Ismail, Muhd Nazmi; , 2013 Preparation and Characterization of Composite Embedded Clinoptilolite for the Removal of Color and Lead from Textile Waste Water, International Journal of Scientific Research in Inventions and New Ideas (IJSRIN) page, 37-47.,
85. Ahmad, Siti Zubaidah; Ahamad, Mohd Sanusi S; Mohd Suffian Yusoff, 2013, Spatial Comparison of New Landfill Sites Using Criteria Derived From Different Guidelines, International Surveying Research Journal, ISrJ Volume 3 Number 2 2013 pp29-40.
86. Hamidi Abdul Aziz.; Sundram, Manogari; Haque, Mokammel; Ahmed, Abu; Adlan, Mohd; Dahlan, Irvan.; Mohd Suffian Yusoff; Selamat, Mohamed Razip; Bashir, Mohammed JK; Umar, Muhammad; , Reducing Ammonia, Chemical Oxygen Demand And Color From Prawn Pond Wastewater Using Composite Media., Environmental Engineering & Management Journal (EEMJ), 12, 11, , 2013,
87. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Hamidi Abdul Aziz, Nur Khairiyah Basri (2013) Removal of COD, ammoniacal nitrogen and colour from stabilized landfill leachate by anaerobic organism, Applied Water Science, June 2013, Springer, Volume 3, Issue 2, pp 359-366.
88. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Hamidi Abdul Aziz., Christopher O. Akinbile (2013) Recent Developments of Textile Waste Water Treatment by Adsorption Process: A Review, International Journal of Scientific Research in Knowledge (IJSRK), 1(4), pp. 60-73.
89. Akinbile, Christopher O., Mohd Suffian Yusoff, Siti Hidayah Abu Talib, Zorkeflee Abu Hasan, Wan Roslan Ismail, and Ummunajwa Sansudin. (2013). Qualitative analysis and classification of surface water in Bukit Merah Reservoir in Malaysia. Water Science & Technology: Water Supply, 13(4), 1138-1145.
90. Mohamad Razip Selamat, Asad Siraj Abu-Rizaiza, Hamidi Abdul Aziz, Mohd Nawawi Mohd Nordin, Mohd Suffian Yusoff, Ismail Abustan, Kamar Shah Ariffin, Rosli Saad, and Mohammed JK Bashir (2013). Study on the adequacy of landfill cover at muassim landfill, makkah, Saudi Arabia. Environmental Progress & Sustainable Energy, 32(3), 569-575.
91. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff , Hamidi Abdul Aziz, Muhd Nazmi Ismail, 2013, Current progress of textile waste water treatment by biological processes, Caspian Journal of Applied Sciences Research 2(10), pp. 7-20,
92. Shuokr Qarani Aziz, Hamidi Abdul Aziz , Mohd Suffian Yusoff, Amin Mojiri, Salem S Abu Amr 2012, Adsorption isotherms in landfill leachate treatment using powdered activated carbon augmented sequencing batch reactor technique: Statistical analysis by response surface methodology. International Journal of Chemical Reactor Engineering 12/2012; 10(89):21.
93. Shuokr Qarani Aziz., Hamidi Abdul Aziz, Mohd Suffian Yusoff, and Soraya Mohajeri. (2012). Removal of phenols and other pollutants from different landfill leachates using powdered activated carbon supplemented SBR technology. Environmental monitoring and assessment, 184(10), 6147-6158.
94. Shuokr Qarani Aziz, Hamidi Abdul Aziz and Mohd Suffian Yusoff , 2012, Landfill Leachate Treatment Using PAC Supplemented SBR Technique-Influence of Input Air IPCBEE (International Proceedings of Computer Science and Information Technology) vol.37, IACSIT Press, Singapore, pp 9-14

95. Mohammed J.K. Bashir, Hamidi Abdul Aziz, Mohd Suffian Yusoff, and Shuokr Qarani Aziz. (2012). Color and chemical oxygen demand removal from mature semi-aerobic landfill leachate using anion-exchange resin: An equilibrium and kinetic study. *Environmental Engineering Science*, 29(5), 297-305.
96. Akinbile, Christopher O., Mohd Suffian Yusoff, and A. Z. Ahmad Zuki. (2012). Landfill leachate treatment using sub-surface flow constructed wetland by *Cyperus haspan*. *Waste management*, 32(7), 1387-1393
97. Akinbile, C. O., Yusoff, M. S., Haque, A. A. M., & Maskir, N. S. (2012). An Appraisal of Methane Emission of Rice Fields from Kerian Agricultural Scheme in Malaysia. *Research Journal of Environmental Sciences*, 6(3).
98. Akinbile C.O, and Mohd Suffian Yusoff, (2012). Solid waste generation and decomposition using compost bin technique in Pulau Pinang, Malaysia. *Waste Management & Research*, 30(5), 498-505.
99. Akinbile C.O., Mohd Suffian Yusoff, Lee Mei Shian, 2012, Leachate Characterization and Phytoremediation Using Water Hyacinth (*Eichhornia crassipes*) in Pulau Burung, Malaysia, *Bioremediation Journal*, Volume 16, Issue 1, pages 9-18,
100. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Azrina Abd Aziz, Lo Ming Rui , 2012, Influence of Impregnation Ratio on Chemically Modified Silica Sand for Heavy Metals Removal from Stabilized Landfill Leachate, *International Journal of Environmental Protection*, Vol. 2 No. 3 PP. 15-22
101. Akinbile C.O. and Mohd Suffian Yusoff, 2012, Assessing Water Hyacinth (*Eichhornia crassipes*) and Lettuce (*Pistia stratiotes*) Effectiveness in Aquaculture Wastewater Treatment, *International Journal of Phytoremediation*, 14:3, pp 201-211
102. Siti Hidayah Abu Talib, Mohd Suffian Yusoff, Zorkeflee Abu Hasan, 2012, Modeling of Sedimentation Pattern in Bukit Merah Reservoir, Perak, Malaysia , *Procedia Engineering* Volume 50 Pages 201-211 , 50 , , pp 201-210
103. Zorkeflee Abu Hasan, Nuramidah Hamidon, Mohd Suffian Yusof, Aminuddin Ab Ghani, 2012, Flow and sediment yield simulations for Bukit Merah Reservoir catchment, Malaysia: a case study, *Water Science & Technology*, Vol. 66, No. 10, pp. 2170-2176
104. Noor Ainee Zainol, Hamidi Abdul Aziz, Mohd Suffian Yusoff, 2012, Characterization of Leachate from Kuala Sepetang and Kulim Landfills: A Comparative Study, *Energy and Environment Research*, , 2 , ,pp 45-49
105. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Mohd Azmier Ahmad , 2012, Treatment of semi-aerobic landfill leachate using durian peel-based activated carbon adsorption-optimization of preparation conditions., *International Journal of Energy and Environment*, , 3, pp 223-236
106. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff and Mohd Azmier Ahmad (2012), Optimization of preparation condition for durian peel based activated carbon for the removal of COD and ammoniacal nitrogen (NH₃-N) using response-surface methodology. *Kuwait Journal Science Engineering* 39 (1B), pp 37-58.
107. Shuokr Qarani Aziz, Hamidi Abdul Aziz & Mohd Suffian Yusoff (2011): Optimum Process Parameters for the Treatment of Landfill Leachate Using Powdered Activated Carbon Augmented Sequencing Batch Reactor (SBR) Technology, *Separation Science and Technology*, 46:15, 2348-2359
108. Noor Ainee Zainol, Hamidi Abdul Aziz, Mohd Suffian Yusoff and Muhammad Umar, 2011, The use of Polyaluminum Chloride for the treatment of Landfill Leachate via Coagulation and Flocculation processes, *Research Journal of Chemical Sciences*, Vol. 1(3) ISSN 2231-606X, pp 34-39.
109. Sim Lan Ching, Mohd Suffian Yusoff, Hamidi Abdul Aziz, Muhammad Umar, 2011, Influence of impregnation ratio on coffee ground activated carbon as semi-aerobic landfill leachate adsorbent, *Desalination*, Volume 279, Issues 1-3, 15 September 2011, Pages 225-234
110. Shuokr Qarani Aziz, Hamidi Abdul Aziz, Mohd Suffian Yusoff, 2011, Powdered activated carbon augmented double react-settle sequencing batch reactor process for treatment of landfill leachate *Desalination*, Volume 277, Issues 1-3, 15 August 2011, Pages 313-320
111. Hamidi Abdul Aziz, Lau Teik Hin, Mohd. Nordin Adlan, Mohd Shahrir Zahari, Salina Alias, Ahmed A.M. Abufoul, Mohamed Razip Selamat, Mohammed J.K Bashir, Mohd Suffian Yusoff, Muhammad Umar. (2011) Removal of High-Strength Colour from Semi-Aerobic Stabilized Landfill Leachate via Adsorption on Limestone and Activated Carbon Mixture. *Research Journal of Chemical Sciences*. Vol. 1(6), pp 1-7.

112. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff and Mohd Azmier Ahmad (2011), Optimization of durian peel based activated carbon preparation conditions for ammoniacal nitrogen removal from semi-aerobic landfill leachate, *Journal of Scientific & Industrial Research*, Vol. 70, July 2011, pp. 554-560
113. Yasir A.J. Al-Hamadani, Mohd Suffian Yusoff, Muhammad Umar, Mohammed J.K. Bashir, Mohd Nordin Adlan (2011) Application of Psyllium husk as Coagulant and Coagulant Aid in Semi-Aerobic Landfill Leachate Treatment, *Journal of Hazardous Materials*, 190 (1-3), pp. 582-587
114. Muhammad Umar, Hamidi Abdul Aziz, Mohd Suffian Yusoff (2011) Assessing the chlorine disinfection of landfill leachate and optimization by response surface methodology (RSM) Original Research Article, *Desalination* 274 (1-3), pp.278-283
115. Akinbile C.O. and Mohd Suffian Yusoff. 2011. Growth, yield and water use pattern of chilli pepper under different irrigation scheduling and management, *Asian Journal of Agricultural Research*, Volume: 5, Issue: 2, Page No.: 154 - 163
116. Akinbile C.O. and Mohd Suffian Yusoff. 2011. Effect of tillage methods and fertilizer applications on amaranthus carentus in Nigeria, *International Journal of Agricultural Research*, Volume: 6, Issue: 3, Page No.: 280-289, DOI: 10.3923/ijar.2011.280.289
117. Shuokr Qarani Aziz, Hamidi Abdul Aziz, Mohd Suffian Yusoff, Mohammed J.K. Bashir, (2011) Landfill leachate treatment using powdered activated carbon augmented sequencing batch reactor (SBR) process: Optimization by response surface methodology, Original Research Article, *Journal of Hazardous Materials*, Volume 189, Issues 1-2, Pages 404-413
118. Mohammed J.K. Bashir, Hamidi Abdul Aziz, Mohd Suffian Yusoff, (2011) New sequential treatment for mature landfill leachate by cationic/anionic and anionic/cationic processes: Optimization and comparative study, Original Research Article *Journal of Hazardous Materials*, Volume 186, Issue 1, 15 February 2011, Pages 92-102
119. Akinbile Christopher O. and Mohd Suffian Yusoff, (2011) Environmental Impact of Leachate Pollution on Groundwater Supplies in Akure, Nigeria, *International Journal of Environmental Science and Development*, Vol.2, No.1, ISSN: 2010-0264, pp. 81-86
120. Shuokr Qarani Aziz, Hamidi Abdul Aziz, Mohammed JK Bashir, Mohd Suffian Yusoff., (2011) Appraisal of domestic solid waste generation, components, and the feasibility of recycling in Erbil, Iraq, *Waste Management & Research*, V 29, Issue 8, Pages 880-887
121. Akinbile C.O. , K.M. Abd El-Latif, Rozi Abdullah and M.S. Yusoff , 2011, Rice Production and Water use Efficiency for Self-Sufficiency in Malaysia: A Review, *Trends in Applied Sciences Research*, Volume: 6 Issue: 10, Page 1127-1140
122. Zorkeflee Abu Hasan, Mohd Suffian Yusoff and Siti Hidayah Abu Talib, (2011) Bukit Merah Reservoir Sedimentation Assessment, *IPCBE (International Proceedings of Computer Science and Information Technology)* vol.8, IACSIT Press, Singapore, pp 86-90
123. Nurazim Ibrahim, Mohd Suffian Yusoff and Hamidi Abdul Aziz, 2011, Food Waste Characteristics after Autoclaving Treatment, 2nd International Conference on Biotechnology and Food Science, *IPCBE (International Proceedings of Computer Science and Information Technology)* vol.7, IACSIT Press, Singapore, pp 54-59
124. Christopher O. Akinbile and Mohd Suffian Yusoff, 2011, Assessment of Groundwater Quality near a Municipal Landfill in Akure, Nigeria, 2nd International Conference on Environmental Science and Technology, *IPCBE (International Proceedings of Computer Science and Information Technology)* vol.6, IACSIT Press, Singapore, pp V2-83-87
125. Ezlina Othman, Mohd Suffian Yusoff, Hamidi Abdul Aziz, Mohd Nordin Adlan, Mohammed J. K Bashir and Yung-Tse-Hung, (2010), The Effectiveness of Silica Sand in Semi-aerobic Stabilized Landfill Leachate Treatment, *Water*. 2010; 2(4), pp 904-915.
126. Shuokr Qarani Aziz, Hamidi Abdul Aziz, Mohd Suffian Yusoff, Mohammed J.K. Bashir and Muhammad Umar, 2010, Leachate characterization in semi-aerobic and anaerobic sanitary landfills: A comparative study, *Journal of Environmental Management*, Volume 91, Issue 12, December 2010, Pages 2608-2614
127. Muhammad Umar, Hamidi Abdul Aziz and Mohd Suffian Yusoff , 2010, Trends in the use of Fenton, electro-Fenton and photo-Fenton for the treatment of landfill leachate, *Waste Management*, Volume 30, Issue 11, November 2010, Pages 2113-2121

128. Mohammed J.K. Bashir, Hamidi Abdul Aziz, Mohd Suffian Yusoff, Shuokr Qarani Aziz and Soraya Mohajeri, 2010, Stabilized sanitary landfill leachate treatment using anionic resin: Treatment optimization by response surface methodology, *Journal of Hazardous Materials*, Volume 182, Issues 1-3, 15 October 2010, Pages 115-122
129. Muhammad Umar, Hamidi Abdul Aziz and Mohd Suffian Yusoff, 2010, Variability of Parameters involved in Leachate Pollution Index (LPI) and Determination of LPI from Four Landfills in Malaysia, *International Journal of Chemical Engineering*, 2010, Article number 747953
130. Mohammed J.K. Bashir, Hamidi Abdul Aziz, Mohd Suffian Yusoff and Mohd. Nordin Adlan (2010) Application of response surface methodology (RSM) for optimization of ammoniacal nitrogen removal from semi-aerobic landfill leachate using ion exchange resin, *Desalination*, Volume 254, Issues 1-3, 15 May 2010, Pages 154-161
131. Mohammed J K Bashir, · Hamidi Abdul Aziz, · Mohd Suffian Yusoff, · A A M Huqe, · Soraya Mohajeri, (2010), Effects of ion exchange resins in different mobile ion forms on semi-aerobic landfill leachate treatment. *Water Science & Technology-WST*, Volume 61, No. 3, pp 641-649
132. Mohammed J.K. Bashir, Hamidi Abdul Aziz, Mohd Suffian Yusoff, (2009), Optimization of Chemical Oxygen Demand (COD) Removal from Landfill Leachate by Anionic Resin using Response Surface Methodology in *Meniti Pembangunan Lestari Dalam Kejuruteraan Awam* (Nor Azam Ramli et al., eds). Pusat Pengajian Kejuruteraan Awam, Universiti Sains Malaysia ISBN 978-983-42190-2-4, pp262-270
133. Hamidi Abdul Aziz, Mohd Suffian Yusoff, Shuokr Qarani Aziz, Muhammad Umar, and Mohammed J.K Bashir (2009), Leachate Qualities at Pulau Burung, Kuala Sepetang and Kulim Landfills - A Comparative Study in *Meniti Pembangunan Lestari Dalam Kejuruteraan Awam* (Nor Azam Ramli et al., eds). Pusat Pengajian Kejuruteraan Awam, Universiti Sains Malaysia ISBN 978-983-42190-2-4, pp 290-299
134. Nurazim Ibrahim, Jamariza Zainol, Mohd Suffian Yusoff, Hamidi Abdul Aziz, Mohd Nordin Adlan, (2009), Food Waste Generation Rate and Composition at USM Cafeteria in *Meniti Pembangunan Lestari Dalam Kejuruteraan Awam* (Nor Azam Ramli et al., eds). Pusat Pengajian Kejuruteraan Awam, Universiti Sains Malaysia ISBN 978-983-42190-2-4, pp304-311
135. Mohd Nordin Adlan, Basil Pandong Anak Pian, Hamidi Abdul Aziz, Mohd Suffian Yusoff and Puganeshwary Palaniandy, (2009), Evaluation of Tank Design Parameters and Water Quality for the Newly Constructed Water Treatment Plant at Sg. in *Meniti Pembangunan Lestari Dalam Kejuruteraan Awam* (Nor Azam Ramli et al., eds). Pusat Pengajian Kejuruteraan Awam, Universiti Sains Malaysia ISBN 978-983-42190-2-4, pp329-334
136. Nurul Syakira Samsuri, Mohd Suffian Yusoff, Ismail Abustan, (2009), Study on Pesticide Loads on the Kerian Agriculture Scheme in *Meniti Pembangunan Lestari Dalam Kejuruteraan Awam* (Nor Azam Ramli et al., eds). Pusat Pengajian Kejuruteraan Awam, Universiti Sains Malaysia ISBN 978-983-42190-2-4, pp717-725
137. Muhammad Umar, Hamidi Abdul Aziz, Mohd Suffian Yusoff, (2009) Can Landfill Leachate be A Potential Source of Pathogenic Bacteria? in *Meniti Pembangunan Lestari Dalam Kejuruteraan Awam* (Nor Azam Ramli et al., eds). Pusat Pengajian Kejuruteraan Awam, Universiti Sains Malaysia ISBN 978-983-42190-2-4, pp726-730
138. Hung, Yung-Tse, Aziz, Hamidi Abdul, Ghazali, Miskiah Fadzilah, Yusoff, Mohd Suffian, Kuo, Chin Y. and Yeh, Ruth Y.L., (2008) *Chemicals and Allied Products*, *Water environment Research*, 2008 Literature Review, 80 (10), pp1416-1457
139. Hamidi Abdul Aziz, Mohd Suffian Yusoff, Mohd Nordin Adlan, Nurul Hidayah Adnan and Salina Alias, 2004, Physico-chemical removal of iron from semi-aerobic landfill leachate by limestone filter, *Waste Management*, Volume 24, Issue 4, 2004, Pages 353-358
140. Hamidi Abdul Aziz, N. Othman, M.S. Yusuff, D.R.H. Basri, F.A.H. Asaari, M.N. Adlan, F. Othman, M. Johari, M. Perwira (2001), 'Removal Of Copper From Water Using Limestone Filtration Technique-Determination Of Mechanism Of Removal', *Environment International*, Volume 26, Issues 5-6, May 2001, Pages 395-399.
141. Hamidi Abdul Aziz, Mohd. Nordin Adlan, Mariaty Perwira, Faridah Asaari, Dini Ramya Basri and Mohd Suffian Yusoff. (2000) Removal Of Cu, Pb And Zn From Synthetic Industrial Wastewater Using Adsorption Media-Comparative Study Between Activated Carbon And Limestone Particle, *Special Issue, Al-Azhar University Engineering Journal, Faculty of Engineering, Al-Azhar. Vol.4*, pp 33-40..

Chapter In Research

1. Farraji, Hossein, Amin Mojiri, and Mohd Suffian Yusoff. "Smart Microbial Sources Management for Treatment: Palm Oil Mill Effluent and Landfill Leachate." In Handbook of Research on Implementation and Deployment of IoT Projects in Smart Cities, pp. 350-369. IGI Global, 2019.
2. Hamidi Abdul Aziz, Miskiah Fadzilah Ghazali, Mohd. Suffian Yusoff, Yung-Tse Hung, 2017, Waste Treatment and Management in Chlor-Alkali Industries, in Waste Treatment in the Service and Utility Industries, Yung-Tse Hung, Lawrence K. Wang, Mu-Hao S. Wang, Nazih K. Shamma, Jiaping Paul Chen, August 8, 2017, CRC Press Reference
3. Mohd Suffian Yusoff and Mohd Faiz Muaz Zamri (2016), Design and Operation of Semi Aerobic Landfill in Aziz, H. A., & Amr, S. A. (2016). Control and Treatment of Landfill Leachate for Sanitary Waste Disposal (pp. 1-395). Hershey, PA: IGI Global. doi:10.4018/978-1-4666-9610-5
4. Mohamad Anuar Kamaruddin, **Mohd. Suffian Yusoff**, Hamidi Abdul Aziz, and Yung-Tse Hung, Sustainable Treatment of Landfill Leachate in Marco Ragazzi (2016) Sewage and Landfill Leachate - Assessment and Remediation of Environmental Hazards, , Apple Academic Press, CRC Publisher, 2016 Pages 3–30.
5. Mohamad Anuar Kamaruddin , **Mohd Suffian Yusoff** , Hamidi Abdul Aziz , and Nur Khairiyah Basri, Removal of COD, Ammoniacal Nitrogen and Colour from Stabilized Landfill Leachate by Anaerobic Organism in Marco Ragazzi (2016), Sewage and Landfill Leachate - Assessment and Remediation of Environmental Hazards, Apple Academic Press, CRC Publisher, Pages 247–267
6. Mohd Nordin Adlan, Hamidi Abdul Aziz, Ismail Abustan, Md Azlin Md Said, Taksiah A. Majid, Mohd Suffian Yusoff, Azlinda Azman, Fatimah Denan, 2014, Projek Bekalan Air Untuk Masyarakat Kurang Mampu: Perlaksanaan, Cabaran dan Pemerkasaan Komuniti. Pusat Pengajian Kejuruteraan Awam USM, ISBN 978-967-349-198-8.
7. Hung, Yung-Tse, Hamidi Abdul Aziz, Mohd Erwan Sanik, **Mohd Suffian Yusoff**, and Lawrence K. Wang. (2014) "Aquaculture System Management and Water Conservation." In Modern Water Resources Engineering, Humana Press, pp. 715-758
8. Hamidi Abdul Aziz, Abu Ahmed Mokammel Haque, **Mohd Suffian Yusoff**, Yung-Tse Hung. (2014) Landfill for Solid Waste Disposal in Handbook of Environment and Waste Management - Volume 2: Land and Groundwater Pollution Control Editors: Yung-Tse Hung, Lawrence K. Wang and Nazih K. Shamma. World Scientific Publishing Co Pte. Ltd., Singapore. ISBN 9814449164, 9789814449168, pp177-361
9. Mohammed J.K. Bashir, Hamidi Abdul Aziz, Mohd Suffian Yusoff, 2009, Optimization of Chemical Oxygen Demand (COD) Removal from Landfill Leachate by Anionic Resin using Response Surface Methodology in Persidangan Kebangsaan Kejuruteraan Awam Kelima Nor Azam Ramli et al., (eds) Pusat Pengajian Kejuruteraan Awam, Universiti Sains Malaysia, ISBN 978-983-42190-3-1, p34
10. Hamidi Abdul Aziz, Mohd Suffian Yusoff, Shuokr Qarani Aziz, Muhammad Umar, and Mohammed J.K Bashir, 2009, Leachate Qualities at Pulau Burung, Kuala Sepetang and Kulim Landfills - A Comparative Study , in Persidangan Kebangsaan Kejuruteraan Awam Kelima Nor Azam Ramli et al., (eds) Pusat Pengajian Kejuruteraan Awam, Universiti Sains Malaysia, ISBN 978-983-42190-3-1, p38
11. Nurazim Ibrahim, Jamariza Zainol , Mohd Suffian Yusoff, Hamidi Abdul Aziz, Mohd Nordin Adlan, 2009, Food Waste Generation Rate and Composition at USM Cafeteria in Persidangan Kebangsaan Kejuruteraan Awam Kelima Nor Azam Ramli et al., (eds) Pusat Pengajian Kejuruteraan Awam, Universiti Sains Malaysia, ISBN 978-983-42190-3-1, p40
12. Mohd Nordin Adlan, Basil Pandong Anak Pian, Hamidi Abdul Aziz, Mohd Suffian Yusoff and Pugeswary Palaniandy, 2009 Evaluation of Tank Design Parameters and Water Quality for the Newly Constructed Water Treatment Plant at Sg. Kampar in Persidangan Kebangsaan Kejuruteraan Awam Kelima Nor Azam Ramli et al., (eds) 2009 Pusat Pengajian Kejuruteraan Awam, Universiti Sains Malaysia, ISBN 978-983-42190-3-1, p43
13. Hamidi Abdul Aziz, Sabir Hussain, Mohd. Hasnain Isa, Shahrir Zahari and Mohd Suffian Yusoff (2005) Ammoniacal Nitrogen Removal From Domestic Wastewater By Adsorption Using Limestone And Activated Carbon, Midas Bulletin Jilid 33, Bil. 4, Okt- Dis 2005.

Proceeding

1. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Hamidi Abdul Aziz, Awatif Md Isa, Classical Optimization of Process Variables In The Treatment of Textile Wastewater using Activated Carbon and Limestone Powder Containing Sea-Weed Binder. Proceedings on 1st Future University International Conference on New Energy & Environmental Engineering (ICNEEE 2016), Intercontinental City Stars Hotel, Nasr City, Cairo, Egypt, April 11-14, 2016.
2. Siti Zubaidah Ahmad, Mohd Sanusi S. Ahamad & Sohaib K.M. Abujayyab Mohd Suffian Yusoff Najat Qader Omar, 2016, Spatial compliances study of present landfill siting to Malaysian standard, Engineering Challenges for Sustainable Future: Proceedings of the 3rd International Conference on Civil, Offshore and Environmental Engineering (ICCOEE 2016, Malaysia, 15-17 Aug 2016)
3. Mohd Faiz Muaz Ahmad Zamri, Mohd Suffian Yusoff, Hamidi Abdul Aziz and Dinie, Muhammad, Success story of Penang Green Program - waste generation and composition variation, in Agamuthu, P and Emenike, C.U (Eds), Proceedings of International Conference on Waste Management 2015: Paradigm Transformation in Waste Management Towards a Greener Environment, University of Malaya, Kuala Lumpur, Malaysia, 20-22 August 2015, pp209-221
4. Zaidi Ab Ghani and Mohd Suffian Yusoff, Development Of Activated Carbon From Banana Pseudo-Stem Via Single Step Of Chemical Activation, Proceedings of International Conference On Advanced Science, Engineering And Technology (ICASET 2015), Penang, Malaysia, 21-22 December 2015.
5. Ming Rui Lo, Mohd Suffian Yusoff, Hamidi Abdul Aziz and Mohd Faiz Muaz Ahmad Zamri, The Effectiveness Of Oil Palm Trunk Waste-Derived Coagulant For Landfill Leachate Treatment, Proceedings of International Conference On Advanced Science, Engineering And Technology (ICASET 2015), Penang, 21-22 December 2015
6. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Hamidi Abdul Aziz and Rasyidah Alrozi, Current Status Of Pulau Burung Sanitary Landfill Leachate Treatment, Penang Malaysia, Proceedings of International Conference On Advanced Science, Engineering And Technology (ICASET 2015), 21-22 December 2015
7. Mohd Suffian Yusoff , Noor Aina Mohamad Zuki and Mohd Faiz Muaz Ahmad Zamri, Effectiveness Of Jackfruit Seed Starch As Coagulant Aid In Landfill Leachate Treatment Process, Proceedings Of Fifth International Conference – GEOMATE 2015, Geotechnique, Construction Materials And Environment Osaka, Japan, 16-18 November, 2015
8. Mohd Suffian Yusoff , Noor Aina Mohamad Zuki and Mohd Faiz Muaz Ahmad Zamri, Effectiveness Of Jackfruit Seed Starch As Coagulant Aid In Landfill Leachate Treatment Process, Proceedings Of Fifth International Conference – GEOMATE 2015, Geotechnique, Construction Materials And Environment Osaka, Japan, 16-18 November, 2015
9. Mohammed J.K. Bashir¹, Hamidi Abdul Aziz, Mohd Suffian Yusoff Recycling Of The Exhausted Cation Exchange Resin For Stabilized Landfill Leachate Treatment, The 4th International Engineering Conference – Towards engineering of 21st century Gaza.
10. Mohd Suffian Yusoff, Ming Rui Lo and Hamidi Abdul Aziz, 2012, Semi-Aerobic Landfill Leachate Treatment Using Oil Palm Trunk Waste-Derived Coagulant, Proceedings of The 5th AUN/SEED-net Regional Conference on Global Environment”, Bandung, Indonesia, Nov 21st– 22nd, 2012,
11. Siti Zubaidah Ahmad, Mohd Sanusi S. Ahamad and Mohd Suffian Yusoff, 2012, Landfill Site Selection Using GIS-MCE Constraint Mapping Technique Proceedings of AWAM International Conference in Civil Engineering (AICCE'12) and Geohazard Information Zonation (GIZ'12). Penang Park Royal, 28th - 30th August 2012,
12. Shuokr Qarani Aziz, Hamidi Abdul Aziz, Mohd Suffian Yusoff and Amin Mojiri 2012, Landfill Leachate Treatment using Powdered Activated Carbon-Augmented Sequencing Batch Reactor: Improvement of Performance, Proceedings of AWAM International Conference in Civil Engineering (AICCE'12) and Geohazard Information Zonation (GIZ'12). Penang Park Royal, 28th - 30th August 2012,
13. Noor Ainee Zainol, Hamidi Abdul Aziz and Mohd Suffian Yusoff, 2013, A Comparative Study on Leachate Quality at Kuala Sepetang and Ampang Jajar Landfills, Proceedings of AWAM International Conference in Civil Engineering (AICCE'12) and Geohazard Information Zonation (GIZ'12). Penang Park Royal, 28th - 30th August 2012,

14. Aziz, Shuokr Qarani, Hamidi Abdul Aziz, and Mohd Suffian Yusoff.(2012) Landfill Leachate Treatment Using PAC Supplemented SBR Technique-Influence of Input Air. Proceeding of International Conference on Environmental and Agriculture Engineering–ICEAE 2012, Jeju Island, South Korea June 29-30, 2012,.
15. Zorkeflee Abu Hasan, Mohd Suffian Yusoff, Siti Hidayah Abu Talib, (2011) Bukit Merah Reservoir Sedimentation Assessment, proceedings of 2011 International Conference on Environment Science and Engineering (ICESE 2011), Bali Island, Indonesia, April 1-3, 2011
16. Hamidi Abdul Aziz, Mohd Suffian Yusoff, Nurazim Ibrahim, (2011) Food Waste Characteristics After Autoclaving Treatment, Proceedings of 2nd International Conference on Biotechnology and Food Science (ICBFS 2011), Bali Island, Indonesia, April 1-3, 2011
17. Christopher O. Akinbile and Mohd Suffian Yusoff, (2011) Comparison analysis of class A pan and piche evaporimeters for evaporation measurements under inaccurate data conditions in Akure, Nigeria, Proceedings of 2nd International Conference in Agricultural Engineering, Theme: Novelty, Clean and Sustainable, Chon-Chan Pattaya Resort, Chonburi, Thailand; 31 March-1 April 2011,
18. Akinbile C.O, Mohd Suffian Yusoff, Assessment of Groundwater Quality near a Municipal Landfill in Akure Nigeria, 2011, Proceedings of 2nd International Conference on Environmental Science and Technology (ICEST) 2011, Singapore. February 26-28, 2011
19. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Mohd Azmier Ahmad, 2010, COD removal from landfill leachate using durian peel activated carbon–Application of response surface methodology. Proceedings of International Conference On Environment 2010 (ICENV 2010), Penang, Malaysia, ISBN978-967-394-013-013-4, 15 December 2010
20. Nurul Syakira Samsuri and Mohd Suffian Yusoff, 2010, Impact of Anion and Cation Status in the Paddy Field due to Excess Loading N Fertilizer at Kerian Agriculture Scheme, Proceedings of International Conference On Environment 2010 (ICENV 2010), Penang, Malaysia, ISBN978-967-394-013-013-4 13-15 December 2010
21. Nor Hana Adam, Mohd Suffian Yusoff, Hamidi Abdul, 2010, Chemical Oxygen Demand (COD) Fractions on Semi Aerobic Landfill Leachate, Proceedings of International Conference On Environment 2010 (ICENV 2010), Penang, Malaysia, ISBN978-967-394-013-013-4, 13-15 December 2010
22. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Mohd Azmier Ahmad 2010 Removal of COD and Color Using Durian Peel Activated Carbon – Batch Adsorption and Kinetic Studies, proceedings 3rd Regional Conference on Natural Resources and Materials Engineering, Bayview Hotel, Langkawi, Malaysia October, 25-26 , 2010 pp 177-182
23. Nor Hana Adam Mohd Suffian Yusoff, Hamidi Abdul Aziz (2010) Chemical Oxygen Demand (COD) Fractions on Semi Aerobic Landfill Leachate, proceedings of 3rd Regional Conference on Natural Resources and Materials Engineering, Bayview Hotel, Langkawi, Malaysia October, 25-26 , 2010 pp361-367
24. M Razip Selamat, Hamidi Abdul Aziz, , Asad Siraj Abu-Rizaiza, Omar Seraj Abu_Rizaiza, Mohd Nawawi Mohd Nordin, Mohd Suffian Yusoff, Ismail Abustan, Kamar Shah Ariffin and Rosli Saad, Modelling Geotechnical Material To Study Adequacy Of Landfill Cover, 4th National, Proceedings of Seminar on Hajj Best Practices through Advances in Science & Technology, Eastin Hotel Penang, 27-29 July 2010, pp68-77
25. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Mohd Azmier Ahmad 2010 Utilization of Durian Peel Activated Carbon for Ammoniacal Nitrogen from Landfill Leachate, proceeding of 6th International Conference on Combustion, Incineration/ Pyrolysis and Emission Control: Waste to Wealth (6th i-CIPEC - W2W 2010), PWTC, Kuala Lumpur Malaysia, 26th and 27th July 2010.
26. Han Khim Lim, Anees Ahmad, Tjoon Tow Teng, Mahamad Hakimi Ibrahim, Mohd Suffian Yusoff, (2010), Adsorption Of Methylene Blue On Activated Carbon Prepared From Oil Palm Tree Sawdust. Proceeding of 2nd International Conference on Environmental Research and Technology (ICERT 2010), Penang, Malaysia. 2nd-4th Jun 2010
27. Zorkeflee Abu Hasan, Nuramidah Hamidon, Mohd Suffian Yusoff (2009), Integrated River Basin Management (IRBM): Hydrologic Modelling Using HEC-HMS for Sungai Kurau Basin Perak, Proceedings of International Conference on Water Resources (ICWR 2009) Bayview Hotel, Langkawi, Kedah, Malaysia 26 & 27 May 2009

28. Bashir M.J.K, H.A. Aziz, M.S. Yusoff, M. Umar,(2009),. "Ammonia-nitrogen removal from municipal landfill leachate by using cationic exchanger". The proceedings 1st Regional Conference on Geo-Disaster Mitigation and Waste Management in ASEAN (RC-GeoEnvi 2009) March, 2009 in Kuala Lumpur, Malaysia. Pp166
29. Umar M., H.A. Aziz, M.S. Yusoff, ,(2009),. "Anumaration Of Total Coliform And Esherichia Coli In Landfill Leachate: A Review". The proceedings 1st Regional Conference on Geo-Disaster Mitigation and Waste Management in ASEAN (RC-GeoEnvi 2009) March, 2009 in Kuala Lumpur, Malaysia. Pp155
30. Bashir M.J.K., H.A. Aziz, M.S. Yusoff, (2009). "Application of ion exchange process for landfill leachate treatment". The proceedings Third International Conference on Science and Development, Gaza, Palestine, 7-8 March, 2009,.
31. Hamidi Abdul Aziz, Mohd Suffian Yusoff, Mohammad.J. Bashir, (2008) "Effects of pre- treatment of commercial cation and anion exchange resin for municipal landfill leachate treatment". The proceedings International Conference and Expo on Environmental Management and Technologies (ICEEMAT'08) December 10th – 12th, 2008, Putra World Trade Centre, Malaysia.
32. Hamidi Abdul Aziz, Marniyati Mamat Noor, Sabir Hussain, Mohd Suffian Yusoff (2008). Chemical Oxidation of Treated Textile Effluent using Hydrogen Peroxide and Fenton Process. Proceedings, "International Conference on Environmental Research and Technology (ICERT 08), Penang, Malaysia.
33. Azlinda Abdul Ghani, Mohd Suffian Yusoff, Naimah Ibrahim, Ragunathan Santiagoo (2007) Level of Mercury and Copper in Groundwater at Pulau Burung Sanitary Landfill , 12th Asian Chemical Congress (12ACC) Malaysian Institute of Chemistry, Putra World Trade Centre, Kuala Lumpur. 23rd - 25th August 2007
34. Mohd Tadza Abdul Rahman, Ismail Abustan, Nafsiah Abdul Wahid, Mohd Suffian Yusoff, Kamarudin Samuding, Roslanzair Mustapha, Lakam Mejus, Nazrul Hisam, Mohd Rifaie Mohd Murtadza (2006) Isotope technique for groundwater contamination studies in sanitary landfill at Pulau Burung , Penang, Malaysia. Malaysia Institute for Nuclear Research (MINT), Selangor. JOINT GEOSCIENCE CONFERENCE UKM-ITB 2006 "Geoscience in economic development and regional tranquility" City Bayview Hotel, Langkawi, Malaysia 19-20th December 2006.
35. Anas Ibrahim, Abdul Rahman Ayub and Mohd Suffian Yusoff (2006), Overview of Recycling and Reuse of Used Tires. The proceedings International Conference On Local Government 2006 Service Delivery By Local Authorities: Issues And Challenges, The Magellan Sutera, Kota Kinabalu, Sabah, Malaysia, 22-24 August 2006. ISBN 983-3643-66-3
36. Mohd Tadza, Ismail Abustan, Nafsiah Abdul Wahid, Mohd Suffian Yusoff, Kamarudin, Roslanzairi, Lakam Mejus, Nazrul Hisam, Mohd Rifaie (2006) Isotope Hydrology for groundwater contamination studies in sanitary landfill at Pulau Burung , Penang, Malaysia. Malaysia, Proceedings 8th Symposium on Asian Academic Network for Environmental Safety and Waste Management (AANESWM), Chennai, India, 10-13 December 2006.

Conference Presentation

1. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Hamidi Abdul Aziz, Awatif Md Isa, Classical Optimization of Process Variables In The Treatment of Textile Wastewater using Activated Carbon and Limestone Powder Containing Sea-Weed Binder. Proceedings on 1st Future University International Conference on New Energy & Environmental Engineering (ICNEEE 2016), Intercontinental City Stars Hotel, Nasr City, Cairo, Egypt, April 11-14, 2016.
2. Zaidi Ab Ghani and Mohd Suffian Yusoff, Development Of Activated Carbon From Banana Pseudo-Stem Via Single Step Of Chemical Activation, International Conference On Advanced Science, Engineering And Technology (ICASET 2015),Penang, Malaysia, 21-22 December 2015.
3. Ming Rui Lo, Mohd Suffian Yusoff, Hamidi Abdul Aziz and Mohd Faiz Muaz Ahmad Zamri, The Effectiveness Of Oil Palm Trunk Waste-Derived Coagulant For Landfill Leachate Treatment, International Conference On Advanced Science, Engineering And Technology (ICASET 2015),Penang, 21-22 December 2015
4. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Hamidi Abdul Aziz and Rasyidah Alrozi, Current Status Of Pulau Burung Sanitary Landfill Leachate Treatment, Penang Malaysia, International Conference On Advanced Science, Engineering And Technology (ICASET 2015),21-22 December 2015

5. Nur Shaylinda Mohd Zin, Hamidi Abdul Aziz, Mohd Nordin Adlan, Azlan Ariffin, Mohd Suffian Yusoff, Irvan Dahlan, 2015, "A Comparative Study of Floc and Sludge of Leachate under Different Types of Coagulants, AWAM International Conference on Civil Engineering (eco-AICCE'15), 9-11 September 2015, PWTC Kuala Lumpur.
6. Mohd Faiz Muaz Ahmad Zamri, Mohd Suffian Yusoff, Hamidi Abdul Aziz, Mohd Anuar Kamaruddin, 2015, Optimization of COD and Color Removal for Matang's Landfill Leachate Treatment by Using Polyaluminum Chloride, AWAM International Conference on Civil Engineering (eco-AICCE'15), 9-11 September 2015, PWTC Kuala Lumpur.
7. Siti Zubaidah Ahmad, Mohd Sanusi S. Ahamad, Mohd Suffian Yusoff, 2015, A Comprehensive Review of Environmental, Physical and Socio-Economic (EPSE) Criteria for Spatial Site Selection of Landfills in Malaysia", AWAM International Conference on Civil Engineering (eco-AICCE'15), 9-11 September 2015, PWTC Kuala Lumpur.
8. Zaidi A. Ghani, Mohd Suffian Yusoff, Jeyashelly Andas, 2015, Review on Applications of Nanoparticles in Landfill Leachate Treatment", AWAM International Conference on Civil Engineering (eco-AICCE'15), 9-11 September 2015, PWTC Kuala Lumpur.
9. Nurazim Ibrahim, Hamidi Abdul Aziz, Mohd Suffian Yusoff, 2015, Natural Organic Matter and Disinfectant By-Products (DBPs) Formation Potential in Agriculture Area in Malaysia", AWAM International Conference on Civil Engineering (eco-AICCE'15), 9-11 September 2015, PWTC Kuala Lumpur.
10. Mohd Suffian Yusoff, Noor Aina Mohamad Zuki, 2015, Optimum of Treatment Condition for Artocarpus heterophyllus Seeds Starch as Natural Coagulant Aid in Landfill Leachate Treatment by RSM", AWAM International Conference on Civil Engineering (eco-AICCE'15), 9-11 September 2015, PWTC Kuala Lumpur.
11. Mohamad Anuar Kamaruddin, Mohd Suffian Yusoff, Abdul Hadi Ahmad, 2015, Waste to Wealth: Recovery of Recyclable Items and Biodegradable Wastes from Night Markets at Seberang Perai Selatan, Penang", AWAM International Conference on Civil Engineering (eco-AICCE'15), 9-11 September 2015, PWTC Kuala Lumpur.
12. Semi-Aerobic Landfill Leachate Treatment Using Oil Palm Trunk Waste-Derived Coagulant, The 5th AUN/SEED-net Regional Conference on Global Environment", Nov 21st– 22nd, 2012, Bandung, Indonesia
13. Landfill Site Selection Using GIS-MCE Constraint Mapping Technique , 2012, AWAM International Conference in Civil Engineering (AICCE'12) and Geohazard Information Zonation (GIZ'12). Penang Park Royal, 28th - 30th August 2012
14. Landfill Leachate Treatment using Powdered Activated Carbon-Augmented Sequencing Batch Reactor: Improvement of Performance, AWAM International Conference in Civil Engineering (AICCE'12) and Geohazard Information Zonation (GIZ'12). Penang Park Royal, 28th - 30th August 2012,
15. Mohammed J.K. Bashir*, Hamidi Abdul Aziz, Mohd Suffian Yusoff, 2012, Recycling Of The Exhausted Cation Exchange Resin For Stabilized Landfill Leachate Treatment , The 4th International Engineering Conference –Towards engineering of 21st century, Gaza
16. Application of Oil Palm Trunk Starch as Coagulant and Coagulant Aid for Semi-Aerobic Leachate Treatment, 2nd International Chemical and Environmental Engineering Conference, 25-27 November 2011, Kuala Lumpur Malaysia
17. Bukit Merah Reservoir Sedimentation Assessment, 2011, International Conference on Environment Science and Engineering (ICESE 2011), Bali Island, Indonesia, April 1-3, 2011
18. Food Waste Characteristics After Autoclaving Treatment, 2nd International Conference on Biotechnology and Food Science (ICBFS 2011), Bali Island, Indonesia, April 1-3, 2011
19. Comparison analysis of class A pan and piche evaporimeters for evaporation measurements under inaccurate data conditions in Akure, Nigeria, 2nd International Conference in Agricultural Engineering, Theme: Novelty, Clean and Sustainable, Chon-Chan Pattaya Resort, Chonburi, Thailand; 31 March -1 April 2011
20. Assessment of Groundwater Quality nears a Municipal Landfill in Akure Nigeria, 2011 2nd International Conference on Environmental Science and Technology (ICEST) 2011, Singapore. February 26-28, 2011

21. COD removal from landfill leachate using durian peel activated carbon–Application of response surface methodology. Proceedings of International Conference On Environment 2010 (ICENV 2010), Penang, Malaysia, 13-15 December 2010
22. Impact of Anion and Cation Status in the Paddy Field due to Excess Loading N Fertilizer at Kerian Agriculture Scheme, International Conference On Environment 2010 (ICENV 2010), Penang, Malaysia, 13-15 December 2010
23. Chemical Oxygen Demand (COD) Fractions on Semi Aerobic Landfill Leachate, International Conference On Environment 2010 (ICENV 2010), Penang, Malaysia, 13-15 December 2010
24. Removal of COD and Color Using Durian Peel Activated Carbon – Batch Adsorption and Kinetic Studies, 3rd Regional Conference on Natural Resources and Materials Engineering, Bayview Hotel, Langkawi, Malaysia October, 25-26 , 2010
25. Chemical Oxygen Demand (COD) Fractions on Semi Aerobic Landfill Leachate, 3rd Regional Conference on Natural Resources and Materials Engineering, Bayview Hotel, Langkawi, Malaysia October, 25-26 , 2010
26. Modelling Geotechnical Material To Study Adequacy Of Landfill Cover, 4th National, Seminar on Hajj Best Practices through Advances in Science & Technology, Eastin Hotel Penang, 27-29 July 2010
27. Adsorption Of Methylene Blue On Activated Carbon Prepared From Oil Palm Tree Sawdust. Proceeding of 2nd International Conference on Environmental Research and Technology (ICERT 2010), Penang, Malaysia. 2nd-4th Jun 2010
28. Removal of COD and Color Using Durian Peel Activated Carbon – Batch Adsorption and Kinetic Studies, The 3rd Regional Conference on Natural Resources and Materials (RCNRM 2010), Bayview Hotel, Langkawi, MALAYSIA, 25-26th October 2010
29. Chemical Oxygen Demand (COD) Fractions on Semi Aerobic Landfill Leachate, The 3rd Regional Conference on Natural Resources and Materials (RCNRM 2010), Bayview Hotel, Langkawi, MALAYSIA , 25-26th October 2010
30. Utilization of durian peel activated carbon (DPAC) for ammoniacal nitrogen (NH₃-N) removal from landfill leachate, Presented at 6th International Conference on Combustion, Incineration / Pyrolysis and Emission Control Putra World Trade Centre, Kuala Lumpur 26-29th July 2010
31. Quantification and Inactivation of Pathogenic Indicator Organisms in Landfill Leachate, Water & Industry 2009 Conference IWA Specialist Conference Chemical Industries, Palmerston North, New Zealand, 30 November – 2nd December 2009.
32. Geophysical study (2-D Electrical Imaging Method) at the closed Mina Landfill, Makkah. Presented at the 8th Meeting of the Saudi Society for Geosciences Jeddah, Saudi Arabia March 9-12, 2009
33. Optimization of Chemical Oxygen Demand (COD) Removal from Landfill Leachate by Anionic Resin using Response Surface Methodology. Persidangan Kebangsaan Kejuruteraan Awam Kelima (AWAM'09), Corus Hotel, Kuala Lumpur. 27-29 Oktober 2009
34. Leachate Qualities at Pulau Burung, Kuala Sepetang and Kulim Landfills - A Comparative Study Persidangan Kebangsaan Kejuruteraan Awam Kelima (AWAM'09) 27-29 Oktober 2009, Corus Hotel, Kuala Lumpur.
35. Food Waste Generation Rate and Composition at USM Cafeteria Persidangan Kebangsaan Kejuruteraan Awam Kelima (AWAM'09), Corus Hotel, Kuala Lumpur. 27-29 Oktober 2009
36. Evaluation of Tank Design Parameters and Water Quality for the Newly Constructed Water Treatment Plant at Sg. Kampar Persidangan Kebangsaan Kejuruteraan Awam Kelima (AWAM'09), Corus Hotel, Kuala Lumpur. 27-29 Oktober 2009
37. Study on Pesticide Loads on the Kerian Agriculture Scheme Persidangan Kebangsaan Kejuruteraan Awam Kelima (AWAM'09), Corus Hotel, Kuala Lumpur. 27-29 Oktober 2009
38. Can Landfill Leachate be A Potential Source of Pathogenic Bacteria? Persidangan Kebangsaan Kejuruteraan Awam Kelima (AWAM'09), Corus Hotel, Kuala Lumpur. 27-29 Oktober 2009

39. Restoration of closed mina landfill, Makkah: a perspective, paper presented at the Second National Seminar on Hajj Best Practices: Through Advances in Science & Technology, , Penang, Malaysia. 28th - 30th July 2009
40. Geophysical study (2-D Electrical Imaging Method) at the closed Mina Landfill, Makkah. Presented at the 8th Meeting of the Saudi Society for Geosciences Jeddah Saudi Arabia. March 9 – 12, 2009.

Patent

1. Hamidi Abdul Aziz, **Mohd. Suffian Yusoff**, Azmier, Haikal, Nasehir Khan, Fuad, Mohamad Nasran, Mohd. Nasrudin. Integrated Recycle Bio Bin (IRBB). Patent Search Ref. MyIPO, PI20095073

Research Grant

International

1. Filtering Of The Hill Water Retention Pool For The Use Of Villagers Using The Green Energy-Based Automatic Backwash Filter, RM 14,923.00, Micron Technology Foundation, Inc, 29/09/2018-02/06/2019, (Team member)
2. The Proposed Design and Tendering for the Proposed Design and Tendering for a Safe Closure of Muassim, Mina Disposal Site - Phase 1, Mayor Of Makkah, Kingdom of Saudi Arabia, RM365,700.00, Duration 1/5/2010-31/10/2012 (Team member)
3. The Proposed Design and Tendering for the New Phase of Landfill at Kakkia Disposal Site - Phase 1, Mayor Of Makkah, Kingdom of Saudi Arabia, RM281,750.00, Duration 1/5/2010-31/10/2012. (Team member)
4. Gas Investigation At Ampang Jajar Landfill Site, Permatang Pauh, Penang (Total Number Of Wells 10), Fukuoka University, Japan, RM 13,000.00 31/12/2012 (Team member)
5. Gas Monitoring of Taiping Landfill, Fukuoka University, Japan, 3/8/2012-31/8/2013, RM7,185.00, (Project Member)

National

(i) Project Head

1. Study on the Mechanisms of the Oil Palm Trunk Starch in Enhancing of Flocculation Process for Landfill Leachate Treatment, Skim Geran Penyelidikan Fundamental (FRGS), Ministry of Education, 1/1/2019-31/12/2021, RM 166,000.00
2. Disaster Relief and Preparedness: Capacity Building for Response and Recovery on Solid Waste Management for Flood Disaster Skim Geran Penyelidikan Fundamental (FRGS), Ministry of Education, 1/4/2015-31/12/2015, RM 54,200.00
3. Penilaian Terhadap Permasalahan Bau di Tapak Operasi Jimat Jaya Sdn. Bhd., Private Agency, Kamarudin Harun Consultants Sdn. Bhd., 1/5/2015-31/7/2015, RM5,000.00

4. Water Quality Monitoring for the Proposed Develop and Construction of Fire Briged and Rescue Academy Tronoh, Perak. Private Agency (Mastac Engineering Sdn. Bhd)., 1/6/2012-31/1/2014, RM50,000.00.
 5. Technical Review and Report Preparing for the Landfill Rehabilitation (Landfill Jelutong), Private Agencies, (Pdc Consultancy Sdn. Bhd.), 11/11/2013, 10/5/2014, RM50,000.00
 6. Solid Waste Characteristics and Composition Study at Pulau Burung Landfill PLB-KH Bina Sdn. Bhd. 15/5/2014-31/12/2014, RM59,280.00
 7. Analysis of Marine Water and Sediment Sample from Pulau Burung Landfill Area PLB-KH Bina Sdn. Bhd. 15/5/2014-31/12/2014 RM4,500.00
- (ii) Co-researcher**
1. Role of Vibration-Induced Electrode Plates and Gas Bubbling Behavior in Batch Electrocoagulation of Landfill Leachate Treatment, RM105,200.00, 01/09/2019-31/05/2022
 2. Waste Management Cluster - No Geran 1001/CKT/870023,USM,RM500000, 1/1/2014 - 31/12/2015
 3. Modelling of Erosion and Particle Movement Inside Pump System using Fluid Dynamic and Physical Models to Improve Pump Efficiency., RM88,200.00, 01/08/2016-31/01/2019
 4. University-Industry Collaboration For Human Resource Development to Meet Sustainability Challenges and New Green Entrepreneurship Opportunities in the Solid Waste Management Industrv,Knowledge Transfer Programme (KTP),131917.5, 1/10/2015 - 30/9/2017
 5. Fundamental Process Of Heterogeneous Photo-Catalysis (TiO₂)For Hospital Wastewater Treatment In Removal Of New Emerging Pollutants (NEP), Ministry of Education, RM81,000.00, Puganeshwary A/p Palaniandy , 1/12/2013-31/5/2016
 6. Analysis On The Influence Of Environmental, Physical, And Socio-Economic (EPSE) Spatial Variables As Applied In Spatial Decision Model For Landfill Site Selection, Ministry of Education, RM97,500.00, Mohd Sanusi Bin S. Ahamad , 1/12/2013-30/11/2016
 7. Enhancement of biodegradation ratio of anaerobic landfill leachate by ozonation/persulphate process, Ministry of Education, RM126,300.00, Hamidi Bin Abdul Aziz @ Abdul Rahman , 1/7/2014-30/6/2017
 8. Development of a Pilot Plant for Production of a New Material in Treating Municipal Solid Waste Leachate Treatment Kementerian Pengajian Tinggi RM366,000.00 Dalam Negara – Kerajaan 1/11/2011-30/4/2014
 9. River Bank/Bed Filtration For Drinking Water Source Abstraction Kementerian Pengajian Tinggi RM2,696,150.00 Dalam Negara –Kerajaan 1/8/2012-31/7/2017
 10. Towards Odour Pollution Regulation for Malaysia: A Comparative Study Between Olfactometry, the Accepted Method of Odour Measurement in Malaysia with Other Proven Techniques Regulated in Japan, Europe and New Zealand Kementerian Pengajian Tinggi RM100,000.00 Dalam Negara – Kerajaan 1/8/2012-31/7/2014
 11. Geophysical Study (2-D Electrical Imaging And Transient Electromagnetic Method (TEM) At The Closed Mina Landfill, Makkah, Fundamental Grant Research Scheme (FRGS), Ministry of Higher Education, RM250,000, Duration, 01/10/2008-01/09/2010.
 12. Characterization Semi- Aerobic Landfill Leachate Based on its Biodegration, Kementerian Pengajian Tinggi RM180,000.00 15/10/2007-15/10/2010
 13. A study on bubblerising velocity in the reaction zone of dissolved air flotation tank using laboratory model. Kementerian Pengajian Tinggi RM44,000.00 Dalam Negara -Kerajaan1/5/2010-30/4/2012
 14. Fundamental Process Of Heterogeneous Photo-Catalysis (TiO₂)For Hospital Wastewater Treatment In Removal Of New Emerging Pollutants (NEP) Kementerian Pengajian Tinggi RM81,000.00 Dalam Negara –Kerajaan 1/12/2013-30/11/2015
 15. Analysis On The Influence Of Environmental, Physical, And Socio-Economic (EPSE) Spatial Variables As Applied In Spatial Decision Model For Landfill Site Selection Kementerian Pengajian Tinggi RM 97,500.00 Dalam Negara –Kerajaan 1/12/2013-30/11/2016

16. Enhancement of biodegradation ratio of anaerobic landfill leachate by ozonation/persulphate process
Kementerian Pengajian Tinggi RM126,300.00 Dalam Negara –Kerajaan 1/7/2014-30/6/201

University

(i) Project Head.

1. Sistem Aeroponik Herba Ubatan Menggunakan Botol Kitar Semula Dan Baja Cecair Sisa Buah-Buahan Di Sk Sungai Kecil Ilir Dan Smk Taman Mutiara, Karang Kedah , RM20,000.00, 01/11/2019-31/07/2021
2. Development of EFB Based Activated Carbon-Iron Oxide Nanocomposite: A New Adsorption Media for Landfill Leachate Treatment , RUI (Individual), RM95,000.00, 01/01/2018-31/12/2020
3. Landfill Leachate Treatment By Oil Palm Trunk Waste Activated Carbon Iron-Oxide Nanocomposite, Bridging Grant, RM10,000.00, 25/01/2018-24/01/2019
4. Development Of Natural Composite Adsorbent By Means Of Alginate Binder Aid For Landfill Leachate Treatment RUI (Individual) 1/3/2015 -28/2/2018, RM157,654.00
5. Development of *Durio zibethinus* Seed Starch as Novel Natural Coagulant for Landfill Leachate Treatment USM (RU) RM197,000.00 15/7/2012-14/7/2015
6. Efficiency of Ion-Exchange Resin to Remove Organic Materials from Semi-Aerobic Landfill Leachate USM Short Term RM34,238.00 15/12/2007-14/12/2009
7. Study On The Behavior Of Food Waste Conversion To Organic Fertilizer By Means Of Mechanical Heat Treatment (MHT) USM (RU) RM92,000.00 1/1/2009

(ii) Co-researcher

1. Installation Of The Green Energy Automatic Backwash Hill Water Sand Filtering System, RM5,500.00, 01/11/2019-31/07/2021
2. Production of Spar Compost for Organic Fertilizer Application, RM24,000.00, 01/05/2019-30/04/2020
3. Treatment of Chemical Oxygen Demand (COD), Colour, Turbidity and suspended Solids in Landfill Leachate using Tin tetrachloride (SnCl₄) and Rubber Seed (*Hevea brasiliensis*) as Natural Coagulant , USM RUI, RM74,250.00, 01/05/2018-30/04/2021
4. Behaviour and Fate of Micro-Pollutants (NEP) Removals in using Photocatalysis - LS/TiO₂/Solar , USM RUI, RM71,750.00, 01/07/2018-30/06/2020
5. Disinfection byproducts (DBPs) Precursors Removal by Phytoremediation, USM Bridging, RM25,000.00, 15/11/2018-14/11/2019
6. A Study on Hydrolysis of Food Waste by Heating Process for Eco-Friendly Fertilizer Production , RM30,210.00, 01/08/2017-31/07/2019
7. Spatial decision model with environmental, physical and socio-economic (EPSE) variables for locating sustainable landfills within Peninsular Malaysia, USM (RU), RM123,000.00, Mohd Sanusi Bin S. Ahamad , 1/12/2013-31/5/2017
8. The Establishment Of Setback Distance Model For Odour From Palm Oil Mills, USM (RU), RM172,800.00, Nastaein Binti Qamaruz Zaman , 31/12/2014-31/12/2017
9. Pemerkasaan Komuniti Untuk Sistem Bekalan Air Bersih, University Community Transformation Centre (UCTC), RM31000, 1/3/2015 - 29/2/2016
10. Proposal On Reengineering Of Agricultural Practice For The Improvement Of Padi Fields Farmers' Income In Northern Corridor Economic Region USM (RU) RM858,900.00 Universiti 10/10/2007-9/6/2011
11. Advancement Of The Best Waste Management Practice In The Northern Corridor Economic Region (NCER) USM (RU) RM1,000,000.00 Universiti 5/12/2007-4/8/2011

12. Horizontal Roughing Filter For Leachate Treatment USM (RU) RM169,000.00 Universiti 1/4/2010-31/3/2013
13. Synthesis And Characterization Of New Synthesis Polymeric Materials And Their Application In Selective Removal And Recovery Of Heavy Metals From Industrial Wastewater USM (RU) RM204,200.00 Universiti 1/8/2010-31/7/2013
14. Development of A Novel Modified Hybridized Anaerobic Inclining-Baffled (MHAI-B) Bioreactor for High-Rate Anaerobic Digestion of Pulp and Paper Mill Wastewater USM (RU) RM224,553.00 Universiti 1/12/2011-31/5/2015
15. Development of Composite Coagulant for Treatment of Partially Stabilized Landfill Leachate USM (RU) RM751,260.00 Universiti 14/7/2012-14/7/2016

SUPERVISION

Graduate Supervision

Post Doctoral Fellow

1. DR. CHRISTOPHER OLUWAKUNMI AKINBILE - Methane Emission of Rice Fields from Kerian Agricultural Scheme in Malaysia sponsored by TWAS-USM, August 2010 - September 2011.
2. DR. MOHAMAD ANUAR BIN KAMARUDDIN, Development of Natural Composite Adsorbent by Means of Alginate, sponsored by USM, November 2015 – October 2016
3. DR. SITI ZUBAIDAH BINTI AHMAD, Treatment of Landfill Leachate Using Oil Palm Waste Based Activated Carbon-Iron Oxide Nanocomposite, June 2018 – January 2019

(i) Ph.D

NAME	TITLE	YEAR
1. Zaber Ahmed	Development of Oil Palm Trunk Starch as Novel Coagulant for the Removal of Dissolved Organic Matters from Semi-Aerobic Landfill Leachate (Main Supervisor/1)	2022 (on going)
2. Norfazliana Binti Jemali	Application Of Coagulation/Flocculation And Heterogenous Photocatalysis (Tio ₂ / B-Sic) In Actual Hospital Wastewater In Removal Of Pharmaceutical Compound, (Co-supervisor)	2023 (on going)
3. Mohd Azhar B. Abd.Hamid	Zeolite Augmented Electrocoagulation Process For Removing Ammonia And Colour In Salined Landfill Leachate (Co-supervisor)	2021
4. Nor Hana Adam	Leachate Treatment Using Oil Palm Based Activated Carbon Iron-Oxide Nanocomposite (Main Supervisor/2)	2021
5. Noorzalila Muhammad Niza	Treatment Of Stabilized Landfill Leachate Using Ionic Nano Copper, (Co-supervisor)	2021
6. Zaidi Ab Ghani	Study on Hybrid Ag-Co Nanoparticles Loaded Activated Carbon on Wastewater Treatment (Main Supervisor/3)	2019
7. Norazim Ibrahim	Evaluation of total coliform and E.coli at drinking water intake points of Sungai Langat, Sungai Perak and Sungai Kerian (Co-supervisor/2)	2018

8.	Siti Zubaidah Ahmad	Development of an optimal sustainable landfill siting model based on the spatial characteristics of present landfills (Co-supervisor/2)	2018
9.	Mohd Faiz Muaz Ahmad Zamri	Development of Durio zibethinus Seed Starch as Novel Natural Coagulant for Landfill Leachate Treatment (Main Supervisor/2)	2016
10.	Muhammad Anuar Kamarudin	Development of carbon-mineral composite for the removal of recalcitrant compounds from textile effluent by sorption process (Main Supervisor/2)	2015
11.	Noor Ainee Zainol	Study of leachate treatment using ozonation and ultraviolet (O3/UV) (co-supervisor)	2015
12.	Siti Hidayah Abu Talib	Sedimentation studies and modelling of phosphorus deposition at Bukit Merah Resvoir (Main Supervisor/3)	2014
13.	Irnis Azura Zakarya	Utilization of Landfill gas as an alternative potential power source in Malaysia (co-supervisor/2)	2012
14.	Shuokr Qarani Aziz	Removal of Volatile Organic Compounds by Using Different Types of Aeration Systems (co-supervisor/2)	2012
15.	Ling Song Kai	Solid waste management in Sarawak (co-supervisor/2)	2011
16.	Mohammed J K Bashir	Removal of colour COD and Ammonical nitrogen from landfill leachate using anionic and cationic resin (co-supervisor/2)	2011

(ii) Master Degree (Research)

1.	Nor Hayati Mohd Yusof	Oil Palm Starch As Coagulant And Coagulant Aid In Semi-Aerobic Landfill Leachate Treatment	2022 (on going)
2.	Mohammad Nizar Bin Mohamed Zukri	The Development of Instrument for Real-Time Monitoring Heavy Metal Discharge for Batik Industry, (Co-supervisor)	2019
3.	Awatif Bt Md Isa	Natural Composite Adsorbent Using Alginate As Binder Aid for Leachate Treatment, (Main Supervisor)	2018
4.	Nurul Aini Zainol Abidin	Riverbank filtration by activated carbon, limestone and alginate as composit media. (Co-Supervisor)	2018
5.	Noor Aina Mohamad Zuki	Development of Jackfruit Seed Starch as Novel Natural Coagulant for Landfill Leachate Treatment (Main Supervisor)	2016
6.	Nur Nasuha Ahmad Puat	Bio-Regenerative Treatments of Poultry Slaughterhouse Wastewater Using Bio-Fringe and White Jute (Corchores Capsularis) Co-Supervisor	2015
7.	Siti Zubaidah Ahmad	Spatial Analytical Study on the Effect of Municipal Solid Waste Landfill Siting Using Different Guideline and Policies (Co-Supervisor)	2012
8.	Nurazim Ibrahim	Treatment of Food Waste by Using Mechanical Heat Process (Main Supervisor)	2012
9.	Nor Hana Adam	Characterization semi-aerobic landfill Leachate. (Main Supervisor)	2011
10.	Mohamad Anuar Kamaruddin	Development of durian peel activated carbon for the removal of cod and colour from semi-aerobic landfill leachate (Main Supervisor)	2011
11.	Muhammed Umar	The Effect of Chlorination on landfill leachate (Co-Supervisor)	2010
12.	Nuramidah Hamidon	Intergrated River Basin Management (Co-Supervisor)	2010

(iii) Doctoral Dissertation (Mixed mode)/MMed (Mixed Mode)**(iii) Master's Dissertation (Mixed Mode)**

1.	Nur Farah Shahirah Binti Besenun	Flocculation Behaviour From Electrolysis Process In Textile Wastewater Treatment	2019
2.	Farrandie Juni	Treatment Of Textile Wastewater Using Natural Crosslinked Starch From <i>Dioscorea hispida</i>	2019
3.	Nur Fatin Hanani Binti Mohd Halid	Conversion of Food Waste to Organic Fertilizers by Means Hydrolysis	2018
4.	Ganga Lakshmanan	Enhancement of Feedstock Quality For Anaerobic Digestion Plant From Municipal Solid Waste	2017
5.	Miafara Datali	Treatment of Slaughter House Wastewater by Nano-Copper Solution	2015
6.	Azlyza Mohd Azman	Treatment Of Slaughterhouse Wastewater Using Electrocoagulation Method	2015
7.	Siti Sarah Ramli	Removal of Ammonia Nitrogen from Aquaculture Water Using Natural Media	2014
8.	Siti Nurfadzillah Hasbi	Durian Seed as Potential Natural Coagulant For Dye Wastewater	2013
9.	Yusof Ahmad	Treatment of Textile Wastewater Using Composite Filter	2013
10.	Nor Akmal Rizal Mansor	Potential of using durian seed as a natural coagulant and coagulant aid in treating printing industry wastewater	2012
11.	Intan Noorhilyati Md Musidek	Application Of Effective Microorganism (EM) For Sewerage Sludge Odor Control (Main Supervisor)	2011
12.	Mohd Farhan Ariff Anuar	Regeneration Of Industrial Waste Resin For Leachate Treatment (Main Supervisor)	2011
13.	Nur Khairiyah Basri	Study In The Effectiveness Of Effective Microorganism (EM) To Remove Some Pollutant In Leachate.(Main Supervisor)	2011
14.	Nur Syuhanis Maksir	Behavior Of Methane Emission From A Paddy Field: A Case Study In Kerian Agricultural Scheme.(Main Supervisor)	2011
15.	Sim Lan Ching	Leachate Treatment Using Coffee Grounds Activated with H ₂ SO ₄ as Low Cost Adsorbent (Main Supervisor)	2010
16.	Tan Wei Ying	The Potential of Aquatic Plants as Phytoremediator for Treatment of Aquacultural Wastewater (Main Supervisor)	2010
17.	Yasir Abdulsattar Jabbar Al-Hamadani	Psyllium Husk as Coagulant and Coagulant Aid in Wastewater Treatment (Main Supervisor)	2010
18.	Azrina Binti Abd Aziz	Leachate Treatment by Using silica Sand & Limestone as Media (Main Supervisor)	2010
19.	Lee Mei Shean	Characterization and Phytoremediation of Leachate Using Water Hyacinth (<i>Eichornia Crassipes</i>) (Main Supervisor)	2010
20.	Fatihah bt. Azmi	Biological Treatment of Semi-aerobic Young Leachate Using Yeast Extract (Main Supervisor)	2009
21.	Mohd. Hafiz bin Zawawi	Study of Dissolved Air Flotation Plant Performance in Malaysia and Flow Characteristics in Flotation Tank Using CFD (Main Supervisor)	2009
22.	Ezlina bt Othman	Treatment of Landfill Leachate Using Silica Sand (Main Supervisor)	2009
23.	Foo Keng Yuen	Municipal solid waste landfill leachate treatment by ion exchange process (Main Supervisor)	2008
24.	Saw Eng Toon	Treatment of landfill leachate using ultrasonic technology (Main Supervisor)	2008
25.	Nurul Syakira Binti Samsuri	Study on loads of pesticide at Kerian Agricultural Scheme (co-Supervisor)	2008
26.	Siti Hidayah Binti Abu Talib	Study on the excess loading fertilizer at Kerian Agriculture Scheme (Co-Supervisor)	2008

Undergraduate Supervision**(i) Final Year**

Name	Year	Title
1. Ain Syazana Binti Zulkafli	2019	Treatment Of Saline Leachate Using Electrocoagulation Process

2.	Kameleswary A/p Watalinggam	2019	The Effectiveness Of Oil Palm Frond Based Activated Carbon As An Adsorbent In Leachate Treatment,
3.	Nur Athirah Binti Azman	2019	Characterization Of Food Waste As A Feedstock For Anaerobic Digestion
4.	Siti Nurwajihah Abu Bakar	2018	Treatment Of Landfill Leachate By Palm Oil Waste Carbon Copper Oxide Nano Composite
5.	Nur Hayati Binti Mohd Yusoff	2018	Treatment Of Young Leachate Using Electro-Coagulation Process
6.	Natasha Amiera Binti Mohd Zulkifly	2017	Landfill Leachate Treatment by Using Nano Composite Adsorbent.
7.	Nor Farah Azira Abd Aziz	2017	Treatment Of Wastewater From Manufacturing Rubber Industry By Using Limestone
8.	Muhammad Hj Ismail	2016	Potential solid waste recycling at USM
9.	Nurul Faizah Mohd Yusof	2016	Removal Of Organic Material From Landfill Leachate By Nano Copper Embedded Activated Carbon
10.	Nur Aisyah Binti Zainuddin	2015	Treatment of Palm Oil Mill Effluent (POME) Using Bacteria
11.	Siti Aishah Binti Mohd Pilus	2015	River Bank Filtration Using Composite Media
12.	Munirah Atirah Binti Mat Saad	2015	Electrocoagulation Process for Leachate Treatment.
13.	Muhammad Fathi Bin Abdul Aziz	2014	Leachate treatment by copper based ion/oxidizing agent
14.	Muhammad A'riff Bin Baharum	2014	Design Analysis for Optimal Waste Collection Route Using GPS and GIS
15.	Muhamad Farid Bin Mohd Nordin	2014	Filtration of river water using composite media
16.	Khairunnisa Fakhriah Binti Mohd Omar	2013	Development of Natural Coagulant for Textile Wastewater Treatment from Oil Palm Trunk.
17.	Nurul Zatul Amali Binti Mohd Zahari	2013	Comparison of Durian Starch Coagulant Extraction Method: A Case Study for Leachate Treatment.
18.	Abdul Hadi Ali Bin Ahmad	2013	Waste Composition Study from Pasar Malam Activities in Seberang Perai Selamat, Pulau Pinang.
19.	Lee Hsiang Chuan	2012	Removal Of Ammonium Nitrogen And Phosphorus From Landfill Leachate Using Effective Microorganism (EM).
20.	Aida Zunadiya Binti Ahmad Zuki	2011	Leachate treatment using subsurface-flow constructed wetland by <i>Cyperus haspan</i>
21.	Nurhasniza Binti Abd Aziz	2011	Food waste treatment by wet thermal treatment
22.	Umulnajwa Binti Samsudin	2011	Study on water quality and phosphorus content in sediment at Bukit Merah Reservoir
23.	Nor Edriana binti Ahmad Pakri	2010	Grass Clipping Composting
24.	Teh Nur Amalina Binti Mohd Zaki	2010	Potential of Durian seed starch as coagulant aid
25.	Ashraf Munawwir Bin Idham	2009	Mechanical Heat Treatment Of Indah Water Konsortium Sdn. Bhd. Treatment Plant Sludge.
26.	Farid Izwan Bin Mohd Razelan	2009	Comparative Study Of Ion Exchange Resin And Silica Sand As Leachate Treatment Media
27.	Muhamad Khairi Bin Kassim	2009	Environmental Quality Monitoring At Majlis Perbandaran Langkawi Landfill Site
28.	Muhammad Hafizuddin Bin Jamaluddin	2009	Efficiency Of Treatment Processes At Majlis Perbandaran Langkawi Landfill Site Treatment Plant
29.	Rofardi Bin Fadzil	2009	Upgrading Of Agricultural Waste As A Compost Fertilizer.
30.	Jamariza Bt Zainol	2009	Putrecible Waste Management At Usm Cafeteria
31.	Nur Asyidah Binti Sulaiman	2009	Food Waste Generation And Composition At Subaidah Nasi Kandar Restaurants
32.	Hilwani binti Andul Latib	2008	Stability and Maturity Analysis of Organic Waste Compost.

33. Mohd Hafiz bin Zawawi	2008	Characteristics Study Of Sludge and Sludge Generation From Indah Water Konsortium Sdn. Bhd. Treatment Plant.
34. Noor Azma binti Lui	2008	Analysis of the Heavy Metal and Nutrient in Aerobic Compost.
35. Tan Koon Tatt	2008	Ground Water Quality Monitoring At Pulau Burung Sanitary Landfill.
36. Tuan Borhanedi Tuan Jusoh.	2008	The Study On Landfill Safe Closure In Malaysia: A Case Study At Ampang Jajar Landfill Site.

ACADEMIC RECOGNITION AND LEADERSHIP

1. (b) Assessor / Examiner

(i) External Examiner for Thesis:

Title	Degree	Year
1. Photocatalytic Degradation Of Triclocarban In Artificial Bathroom Greywater By Modified Tio ₂ Nanotubes Coated With Zeolite (TNTS/ZEO)	PhD	2021
2. Treatment And Nutrient Recovery Of Landfill Leachate By Algae And Duckweed	PhD	2018
3. Comparative Study of Microwave Assisted Chemical Pretreatment for Enhanced Biofuel Production	M.Sc.	2016
4. Dry and Wet Capture of CO ₂ with industrial Alkaline Solid Residue	PhD	2015
5. Bioremediation of Biodiesel and Diesel Contaminated Soil by Using <i>Pseudomonas putida</i>	M. Sc	2014
6. Treatment Of Leachate By Using Sequencing Batch Reactor (SBR)	M. Sc	2014
7. Biodegradation of Batik Wastewater by Using <i>Lactobacillus delbruckii</i>	M. Sc	2014
8. Olahan Larut Lesapan Menggunakan Elektrod Aluminium Dan Ferum Dalam Sistem Elektro-Penggumpalan	M. Sc	2013
9. Vermiremediation, effective microorganisms treatment and mycoremediation of polycyclic aromatic hydrocarbon in soil and sewage sludge	M. Tech	2012
10. The Infuence Of Temperature And Filter Type On The Palm Oil Mill Effluent (POME)Reatment Using The Hybrid Up-Flow Anaerobic Sludge Blanket (HUASB) Reactor	M. Sc.	2012
11. Analytical Study of Solid Waste Generation Trends in Selected Cities in Malaysia	M.Tech.	2010

(ii) Internal Examiner for Thesis:

Doctor of Philosophy

Name	Title	Year
1. Nor Azalina Binti Rosli	Sewage Sludge And Red Gypsum Composite Applicability As An Alternative Materials For Intermediate Landfill Cover	2020
2. Sharifah Farah Fariza Binti Syed Zainal	Jatropha Curcas As Flocculant Agent In Highly Coloured Stabilised Landfill Leachate Treatment	2020

3.	Khairul Rahmah Binti Ayub	Feasibility and Practicality of Green Roof For Stormwater Management In Malaysia	2020
4.	Nur Syazwani Binti Abd Rahman	The Effectiveness Of Cieba Pentandra Modified Fiber In Removing Anion From Eutrophic Water	2020
5.	Kirushantini A/P Balakrishnan	Preparation and Characterization of Polysaccharide Derived Carbon Aerogels by Ambient Pressure Drying for the Adsorptive Treatment of Pharmaceutical Contaminated Water	2019
6.	Mazlina bt Alang Othman	Determination of Water Quality Volume in Stormwater Facilities	2018
7.	Nurhanim Abdul Azziz	Treatment of waste concrete by using <i>Basilus subtilis</i>	2018
8.	Husin Faraji	Performance of SBR enhanced with zeolite and raw municipal waste water in the treatment of POME	2017
9.	Siti Hafizan Hassan	Development of waste quantification Model for Malaysian Housing Construction Project: Case Study for Brick and Mosaic Waste	2017
10.	Nurashikin Yaacof	The establishment of suitable setback distance for malodor mitigation from palm oil mill	2017
11.	Arezoo Fereidonian Dashti	Removal Turbidity Cod Colour Suspended Solid And NH ₃ -N From Palm Oil Mill Effluent Using Limestone Roughing Filter	2017
12.	Dheaaa Al Deen Atallah Aljuboury	Enhancement Of Photocatalytic Process In The petroleum Wastewater Treatment At Sohar Oil Refinery, Oman	2016
13.	Nor Aida Binti Saad	Energy Use Implication Of Effluent Quality Targets In The Oxidation Ditch Process	2016
14.	Muhamad Faizal Pakir Mohamed Latiff	Preparation of Activated carbon from agricultural waste for removal of heavy metal	2015
15.	Siti Roshayu Hassan	Anaerobic Digestion of Recycled Paper Mill Effluent (RPME) Using Modified Anaerobic Hybrid Baffled (MAHB) Reactor: Performance, Mechanism, Kinetic and Hydrodynamics Studies	2015
16.	Muhd Nazmi Ismail	The effectiveness of activated carbon from pandanus leaves as an adsorbent in wastewater treatment	2015
17.	Oluwakemi Kehinde Fagbenro	Removal of Color, Suspended Solids And COD From Textile Wastewater Using Clinoptilolite And Persulfate	2015
18.	Abdalla Mohamed M Gebiril	Biodegradation of Libyan Light Crude Oils using in-situ Molasses Technique	2015
19.	Tamer Mousa Diab Alslaibi	Physical chemical treatment of hospital wastewater using activated carbon prepared from olive stones	2014
20.	Maher A.Y. Elbayoumi	Assessment of Indoor Air Quality, Thermal Comfort and Health Symptoms in Naturally and Mechanically Ventilated Classrooms	2014
21.	Rana Ibrahim Alkhalili	Assessment Of Treated Wastewater Irrigation Of Selected Crops	2014
22.	Amin Mojiri	Landfill leachate and domestic wastewater treatment using sequencing batch reactor (SBR) and ZELIAC augmented process	2014
23.	Salem S.S. Abuamro	Treatment of stabilized leachate by ozone/Fenton in the advanced oxidation process	2013
24.	Jaber M.A. Alkassseh	Economic Level Of Non-Revenue Water In Kinta Valley Using Statistical And Artificial Neural Network Methods	2013

25. Mohd. Ariff Bin Ahmad Nazri	Integrated methods using isotope and geophysical techniques for shallow ground water - water losses studies in channel irrigation system	2013
26. Seyedmohammad Hosseini	Enhancement of Bio-Composting efficiency by Thermochemical pretreatment process	2013
27. Mohamed Osman Saeed	Development Of Standard Landfill Criteria For New Potential Landfill Site In Malaysia Using Multicriteria Decision Analysis (MCDA).	2011
28. Abdelsalam O.Giebril	Factors Effecting Public Participation In The Recycling Of Municipal Solid Waste In Libya: A Case Study Of Benghazi City.	2011
29. Puganeshwary Palaniandy	Treatment Using Coagulation Process Prior To Dissolved Air Flootation (DAF)	2011
30. Kamarudin Samuding	Distribution of pollutants and effects to groundwater system at Taiping Sanitary Landfill Perak Malaysia	2010
31. Leila Mohajeri	Process parameters Optimization for bioremediation of crude oil in contaminated coastal sediments	2010
32. Tengku Noriati Tengku Izhar	Locational Difference of Gaseous Emission Effects From A Semi-aerobic Landfill to Conurbations	2010
33. Nasehir Khan b. EM Yahaya	Development of Rice Husks based Activated carbon For Improving Urban Dry Weather Flow Quality at Sungai Pinang River basin	2010
34. Zawawi b. Daud	Coagulation and Flocculation of Semi Aerobic Leachate in Removing COD Ammonia Colour and Suspended Solids	2008
35. Abdelnaser Omran Ali	Attitude of Malaysian Households on Recycling of Solid Waste	2007

Master's

Name	Title	Year
1. Lum Pei Teng	Development of Eco-Friendly Nanocomposites for the Photocatalytic Treatment of Textile Contaminants	2018
2. Hajar Binti Abu Bakar	Disinfection Of Bio-Medical Waste Using Gamma Irradiator	2012
3. Norrimi Rosaida Awang	A Fundamental Study On Decomposition And Settlement Of Municipal Solid Waste	2011
4. Nor Asmaliza Mohd Noor	Water Quality Modelling Of Constructed Wetland Using Prewet Model : A Case Study Bioecods USM	2009
5. Jaya Paul a/l Arumai Dhas	COD Reduction of Textile Waste Water	2008

Master's (mixed mode)

Name	Title	Year
1. Hanan Raad Flayyih	Amoniacal Nitrogen And Cod Removals From Landfill Leachate Using The Sequence Of Ozonation And Zeolite Filtration	2019
2. Nor Amelia Binti Adha	Micro Waste Segregation, Reduction And Management In Local Households In Penang	2018
3. Tan Wan Yeng	Characterization, Fate and Transport of Zinc Oxide Nanoparticles with the Presence of Ferrous Sulphate in Aqueous Suspension	2017
4. Nor Aini Bt Rahim	Potential Use Of Dimorcarpus Longan Seed As Flocculant In Landfill Leachate Treatment	2016
5. Nur Baitul Izati Binti Rasli	Comparison Of Public And Private Indoor Space In Accordance To Industry Code Of Practice (ICOP) For Indoor Air Quality	2016

6.	Nor Atiqah Azmi	Sequencing Batch Reactor Treated Palm Oil Mill Effluent by Constructed Wetland Planted with <i>Cyperus alternifolius</i> Species and Palm Oil Fuel Ash	2015
7.	Siti Nor Hidayah Abu Bakar	Treatment of Leachate Using Calcinated Limestone for Removal of COD, Ammonia and Color	2014
8.	Nur Izzati Mohamad Sobri	Extraction and Application of Starch-Based Coagulants from Saga Trunk for Semi-Aerobic Landfill Leachate Treatment	2014
9.	Nur Aziemah Abd Rashid	The Effects of Soil Properties on the Removal of Colour, Iron, Turbidity and E.Coli for River Bank Filtration	2013
10.	Yan Kun	The Control of Food Wastes Odor Through Use of Baking Soda	2013
11.	Tan Wei Chen	Influence of Meteorological Factors on the Formation of Ozone from Nitrogen Dioxide	2012
12.	Nur Aziemah Abd Rashid	The Effects of Soil Properties on the Removal of Colour, Iron, Turbidity and E.Coli for River Bank Filtration	2012
13.	Yan Kun	The Control of Food Wastes Odor Through Use of Baking Soda	2012
14.	Adilah Binti Haji Hussain	Treatment of Shrimp Pond Wastewater Using Chicken Feather as Adsorbent	2012
15.	Nur Atiqah Binti Sham	The Potential of Biosolid from Jelutong Sewerage Treatment Plant (JSTP) for Compost Production	2012
16.	Siti Nor Hidayah Binti Abu Bakar	Treatment of Leachate using A Combination of Limestone, Zeolite and Activated Carbon using Horizontal Roughing Filter (HRF)	2012
17.	Somaia M.O. Tayeh	Color Removal From Synthetic Dye and Textile Wastewater Using Adsorbent Prepared From Psyllium Husk.	2011
18.	Helen Jong Wan Ting	The Effects of the Filter Media Configuration on the Removal of Turbidity, Colour and COD for Landfill Leachate Using Horizontal Roughing Filter.	2011
19.	Cheong Wai Keong	Treatment of Semi-Aerobic Leachate by Raw and Modified Limestone.	2011
20.	Musfirah Mohd Syaifu	Removal Of Strontium (Sr) Zinc (Zn) Chloride (Cl) And Total Dissolved Solids (TDS) In Seawater By Using Composite Adsorbent	2011
21.	Muhamad Afiq Mahat	Evaluation Of Odour Levels From Municipal Solid Waste Sludge At Bayan Baru Treatment Plant.	2011
22.	Mohammadraghi Vakili	Compost Production From Palm Oil Bio Waste.	2011
23.	Noor Aniqah Johari	Pre-Treatment Of River Water Using Bentonite & Modified Kaolin Clay.	2011
24.	Chew Xiau Sing	The Predictions Of Transformation Of Sulphur Dioxide And Non-Methane Hydrocarbon To Ozone Using Multiple Linear Regressions Techniques.	2010
25.	Aimi Nadiah Mohamad Ibrahim	Wastewater Treatment Using Bentonite and Combination of Bentonite as Coaculant	2010
26.	Siri Ranumi A/P Bab Sing	Sorption of Dye Wastewater by Using Natural Zeolite - Limestone and Modified surfactant – Zeolite	2010
27.	Sia Ming Choung	Groundwater Studies Using Soil Analysis Resistivity Imaging and Hydrochemistry Method in Kerian Irrigation Scheme	2010
28.	Rachel Goh Soo Yin	Issues And Applications Of Environment And Safety In Construction Practices In Malaysia : A Case Study In Nibong Tebal Pulau Pinang	2010.
29.	Nor Azalina bt. Rosli	Optimization of Flotation Tank for Dissolved Air Flotation Process Using Centrifugal Fluid Dynamic (CFD)	2009

30.	Chan Kok Wah	Wastewater Treatment by Using Derivation of Coconut Shells and Zeolite as adsorbent	2009
31.	Lim Han Khim	Leachate Treatment by Using Red Mud As Coagulant	2009
32.	Nur Shafieza Binti Azizan	Evaluation of sanitary landfill settlement by different composition of waste using physical method	2008
33.	Manogari A/P Sundram	Ammonia COD and colour removal from prawn pond effluent using composite media.	2008
34.	Shabnam Khosravi Haftkhani	Treatment of landfill leachate using a combination of Fenton & coagulation/flocculation techniques	2008
35.	Siti Hanum Binti Abu Hairy	Evaluation for environmental risk assessment parameters due to the hill slope developments in Penang Island	2008
36.	Marniyati Binti Mamat Noor	Chemical Oxidation of Treated Textile Effluent by Hydrogen Peroxide and Fenton Process	2007
37.	Miskiah Fadzilah Binti Ghazali	Stabilization and Solidification of Textile Wastewater Sludge	2007
38.	Zarizi Bin Awang	Electrochemical Treatment of Slaughterhouse Wastewater	2007
39.	Yau Woon Lee	A Case Study on Paper Recycling Processes in Seberang Perai Selatan and Public Awareness Towards Waste Paper Recycling	2007

UPDATED: SEPTEMBER 2021