# PUBLICATION OF PROF. DATO’ IR. DR. WAN RAMLI WAN DAUD FASc FTWAS

## H-indices and Citation Data

ISI WOS Publon Researcher ID: B-3635-2013 on 16 Feb 2022.

* Number of Indexed Articles WOS: 368
* H-Index ISI WOS (1995-2021) : 55
* Total citations ISI WOS (1995-2021): 11,401

SCOPUS Author ID: 35547717400 on 16 Feb 2022

* Number of Indexed Articles SCOPUS: 379
* H-Index SCOPUS (1995-2021): 59
* Total citations SCOPUS (1995-2021): 12,538

GOOGLE SCHOLAR on 16 Feb 2022.

* Number of Indexed Articles GOOGLE: 557
* H-Index GOOGLE SCHOLAR (1995-2021): 68
* Total citations GOOGLE SCHOLAR (1995-2021): 17,954

## Publication Summary:

Published 1049 articles:

* Published 414 articles in international journals,
* Published 401 articles in international conference proceedings
* Published 235 articles in national conference proceedings
* Published 2 international research books
* Published 6 chapters in international research books
* Edited 6 international conference proceedings
* Edited 8 journal issues as Chief Editor of Jurnal Kejuruteraan and Jurnal Kejuruteraan Kimia.
* Guest edited 3 Special Issues of International Journal of Hydrogen Energy
* Published 2 national books
* Published 5 chapters in national research books
* Translated 2 books

## Articles in International Journals:

**Year 2021:**

1. Daud, S.M., Abu Bakar, M.H., Wan Daud, W.R., Kim, B.H., Md Jahim, J., Muchtar, A., Somalu, M.R., Lee, P.H. & Abdul, P.M. 2021. Improvement of microbial fuel cell performance using novel kaolin earthenware membrane coated with a polybenzimidazole layer. Energy Science and Engineering (under publication).
2. Wong, C.Y., Wong, W.Y., Loh, K.S., Khalid, M., Daud, W.R.W., Lim, K.L. & Walvekar, R. 2021. Enhancement in hydrolytic stability and proton conductivity of optimised chitosan/sulfonated poly (vinyl alcohol) composite membrane with inorganic fillers. International Journal of Energy Research:1-17.
3. Jafary, T., Yeneneh, A.M., Daud, W.R.W., Al-Attar, M.S.S., Al-Masani, R.K.M., Rupani, P.F. 2021. Taxonomic classification of sulphate-reducing bacteria communities attached to biocathode in hydrogen-producing microbial electrolysis cell. Int. J. Environ. Sci. Technol.: 1-10.
4. Wan Ramli bin Wan Daud 2019. Kincir air Malayonesia: satu kajian awal Kesturi 29 (1 & 2): 97-120 (Terbit 2021).
5. Ahmad Junaidi, N.H., Wong, W.Y., Loh, K.S., Rahman, S., Daud, W.R.W. 2021. A comprehensive review of MXenes as catalyst supports for the oxygen reduction reaction in fuel cells. International Journal of Energy Research (Article in Press).
6. Lim, B.H., Majlan, E.H., Tajuddin, A., Husaini, T., Daud, W.R.W., Mohd Radzuan, N.A., Haque, M.A. 2021. Comparison of catalyst-coated membranes and catalyst-coated substrate for PEMFC membrane electrode assembly: A review. Chinese Journal of Chemical Engineering 33:1-16.
7. Nasir, M.F., Daud, W.R.W., Mohamed, M.A., Mamat, M.H., Abdullah, S. & Mahmood, M.R. 2021. Physicochemical Properties of Surface Modified ZnFe2O4 Nanocomposite Incorporated with Bio-templated Kapok Fiber for Photoelectrochemical Application. Surface and Interface Analysis 53(7):637-649.
8. Salehmin, M.N.I., Nasir, M.F., Mohamed, M.A., Rosman, N.N., Moridon, S.N.F., Minggu, L.J. & Daud, W.R.W. 2021. Reduced graphene oxide as protective material on cuprous oxide nanowire; the challenges and proposal for improvement in photoelectrochemical application. Surface and Coatings Technology, 127127.
9. Salehmin, M.N.I., Lim, S.S., Satar, I. & Daud, W.R.W. 2021. Pushing microbial desalination cells towards field application: Prevailing challenges, potential mitigation strategies, and future prospects. Science of The Total Environment, 759:143485.
10. Rubinsin, N.J., Daud, W.R.W., Kamarudin, S.K., Masdar, M.S., Rosli, M.J., Samsatli, S., Tapia, J.F.D., Karim Ghani, W.A.W.W., Hasan, A. & Lim, K.L. 2021. Modelling and optimisation of oil palm biomass value chains and the environment–food–energy–water nexus in peninsular Malaysia. Biomass and Bioenergy 144, 105912.
11. Markom, M., Hassim, N., Hasan, M. & Daud, W.R.W.2021. Modeling of supercritical fluid extraction by enhancement factor of cosolvent mixtures. Separation Science and Technology 56(7):1290-1302.

**Year 2020:**

1. Wei, T.M., Daud, W.R.W., Jafary, T., Somalu, M.R., Sitorus, S.R.I. & Bakar, M.H.A. 2020. Low operating cost approach in Spirulina platensis bio-photovoltaic cell. International Journal of Nanotechnology 17 (11-12):840-856.
2. Nasir, M.F.M., Daud, W.R.W., Mohamed, M.A. & Mamat, M.H. 2020. Effect of precursors on the growth and physiochemical properties of bio-mimetic ZnFe nanocomposites for photoelectrochemical application. Sains Malaysiana 49 (12):3165-3174.
3. Hussain, M.A. & Daud, W.R.W. 2020 Special Issue on Modelling and Process Control of Fuel Cell Systems. Processes 8 (12):1592.0
4. Satar, I., Bakar, M.H.A., Daud, W.R.W., Yasin, N.H.M., Somalu, M.R. & Kim, B.H. 2020. Feasibility of Ni/Ti and Ni/GF cathodes in microbial electrolysis cells for hydrogen production from fermentation effluent: A step toward real application. International Journal of Energy Research 44(9):7464-7476
5. Juhari, A.N., Sharani, M.S., Daud, W.R.W., Jafary, T. & Bakar, M.A 2020. UKM2 chlorella sp. strain electricity performance as bio-anode under different light wavelength in a biophotovoltaic cell (Prestasi elektrik strain UKM2 chlorella sp. sebagai bio-anod di bawah gelombang cahaya berbeza dalam sel biofotovoltan) Sains Malaysiana 49 (12): 3229-3241.
6. Nasir, M.F.M., Daud, W.R.W., Mohamed, M.A., Mamat, M.H., Abdullah, S. & Mahmood, M.R. 2020. Effect of Precursors on the Growth and Physiochemical Properties of Bio-mimetic ZnFe2O4 Nanocomposites for Photoelectrochemical Application (Kesan Prekursor terhadap Pertumbuhan dan Sifat Fisiokimia Nanokomposit ZnFe2O4 Bio-mimetik untuk Aplikasi Fotoelektrokimia). Sains Malaysiana 49(12): 3219-3228.
7. Yusoff, Y.N., Loh, K.S., Wong, W.Y. Daud, W.R.W. & Lee, T.K. 2020. Sulfonated graphene oxide as an inorganic filler in promoting the properties of a polybenzimidazole membrane as a high temperature proton exchange membrane. International Journal of Hydrogen Energy 45 (51), 27510-27526.
8. Wong, C.Y., Wong, W.Y., Loh, K.S., Khalid, K., Daud, W.R.W., Lim, K.L. & Walvekar, R. 2020. Influences of crosslinked carboxylic acid monomers on the proton conduction characteristics of chitosan/SPVA composite membranes. Polymer 203:122782.
9. Satar, I., Bakar, M.H.A., Daud, W.R.W., Yasin, N.H.M., Somalu, M.R. & Kim, B.H. 2020. Performance of nickel-iron foam (Ni-Fe) cathode in bio-electrochemical system for hydrogen production from eﬄuent of glucose fermentation. Materials Science & Engineering B 260:114613.
10. Zainal, S.A., Daud, W.R., Rosli, M.I., Harun, S., Putra, Z.A., Bilad, M.R. 2020. Integrated surface and sub-surface simulation model in a single simulation platform. Indonesian Journal of Science and Technology 5(1):109-124.
11. Wong, C.Y., Wong, W.Y., Loh, K.S., Daud, W.R.W., Lim, K.L., Khalid, M. & Walvekar, R. 2020. Development of poly (vinyl alcohol)-based polymers as proton exchange membranes and challenges in fuel cell application: a review. Polymer Reviews 60 (1):171-202.
12. Daud, S.M., Daud, W.R.W., Bakar, M.H.A., Kim, B.H., Somalu, M.R., Muchtar, A., Jahim, J.M. & Ali, S.A.M. 2020. Low-cost novel clay earthenware as separator in microbial electrochemical technology for power output improvement. Bioprocess and Biosystems Engineering 43:1369–1379
13. Lim, B.H., Majlan, E.H., Daud, W.R.W., Rosli, M.I. & Husaini, T. 2020. Numerical investigation of the effect of three-dimensional modified parallel flow field designs on proton exchange membrane fuel cell performance. Chemical Enginering Science 217: 115499.
14. Lim, S.S., Fontmorin, J.-M., Izadi, P., Daud, W.R.W., Scott, K &, Yu, E.H. 2020. Impact of applied cell voltage on the performance of a microbial electrolysis cell fully catalysed by microorganisms. International Journal of Hydrogen Energy 45 (4): 2557-2568
15. Liew, K.B., Leong, J.X., Daud, W.R.W., Ahmad, A., Hwang, J.J. & Wu, W. 2020. Incorporation of silver graphene oxide and graphene oxide nanoparticles in sulfonated polyether ether ketone membrane for power generation in microbial fuel cell. Journal of Power Sources 449: 227490.
16. Yahaya, A.Z., Somalu, M.R., Muchtar, A., Sulaiman, S.A. & Daud, W.R.W. 2020. Effects of temperature on the chemical composition of tars produced from the gasification of coconut and palm kernel shells using downdraft fixed-bed reactor. Fuel 265, 116910
17. Rubinsin, N.J., Daud, W.R.W., Kamarudin, S.K., Masdar, M.S., Rosli, M.I., Samsatli, S., Tapia, J.F., Wan Ab Karim Ghani, W.A. & Lim, K.L. 2020. Optimization of oil palm empty fruit bunches value chain in Peninsular Malaysia. Food and Bioproducts Processing 119:179–194
18. Samad, S., Loh, K.S., Wong, W.Y., Sudarsono, W., Lee, T.K. & Daud, W.R. W. 2020. Effect of various Fe/Co ratios and annealing temperatures on a Fe/Co catalyst supported with nitrogen-doped reduced graphene oxide towards the oxygen reduction reaction. Journal of Alloys and Compounds. 816: 152573.

**Year 2019:**

1. Hasran, U.A., Jalil, N.F.A., Din, R., Daud, W.R.W. & Mat Noor, S.F. 2019. Pendidikan Teknologi Multidisiplin: Mengenali Sel Fuel Dengan Pendekatan Pembelajaran Berasaskan Permainan. Asean Journal of Teaching and Learning in Higher Education (AJTLHE) 11(2):36-54.
2. Mahmood, M.M., Daud, W.R.W., Markom, M., Mansor, C.N.A.N.C. & Latif, J. 2019. Effects of pressure variation and dynamic extraction time in supercritical fluid extraction (SFE) with cosolvent on bioactive compounds from Orthosiphon stamineus. Malaysian Journal of Fundamental and Applied Sciences 15 (5):712-715
3. Majlan, E.H., Daud, W.R.W., Husaini, T., Rosli, M.I., Sulong, A.B. & Sebayang D 2019. Finite element analysis for stress distribution in a proton exchange membrane fuel cell stack. International Journal of Integrated Engineering 11 (7): 233-240.
4. Raba'atun Adawiyah Shamsuddin, Mimi Hani Abu Bakar, Wan Ramli Wan Daud, Kim Byung Hong, Jamaliah Mat Jahim 2019. Can electrochemically active biofilm protect stainless steel used as electrodes in bioelectrochemical systems in a similar way as galvanic corrosion protection? International Journal of Hydrogen Energy 44(58):30512-30523.
5. Ismail, A., Kamarudin, S.K., Daud, W.R.W., Masdar, S. & Hasran, U.A. 2019. Development of optimisation model for direct methanol fuel cells via cell integrated network. International Journal of Hydrogen Energy 44(58):30606-30617
6. Rosli, R.E., Sulong, A.B., Daud, W.R.W., Zulkifley, M.A., Rosli, M.I., Majlan, E.H., Haque, M.A. & Radzuan N.A.M. 2019. The design and development of an HT-PEMFC test cell and test station. International Journal of Hydrogen Energy 44(58): 30763-30771.
7. Jafary, T., Daud, W.R.W., Ghasemi, M., Bakar, M.H.A., Sedighi, M. & Kim, B.H. 2019. Clean hydrogen production in a full biological microbial electrolysis cell. International Journal of Hydrogen Energy 44(58):30524-30531.
8. Zainal, S.A., Daud, W.R.W., Rosli, M.I., Harun, S. and Putra, Z.A. 2019. Integrated surface and sub-surface simulation model in a single simulation platform Indonesian Journal of Science & Technology 4(1): 2-17.
9. Nor, M.M., Putra, Z.D., Bilad, M.R., Nordin, N.A.H.M., Wirzal, M.D.H., Abidin, S.A.Z. & Daud W.R.W. 2019. Well connection optimization in integrated subsurface and surface facilities: an industrial case study Journal of Petroleum Exploration and Production Technology 9(4):2921-2926..
10. Wong, C.Y., Wong, W.Y., Ramya, K., Khalid, M., Loh, K.S., Daud, W.R.W., Lim, K.L., Walvekar, R. & Kadhum, A.A.H. 2019. Additives in proton exchange membranes for low-and high-temperature fuel cell applications: A Review. International Journal of Hydrogen Energy 44:6116-6135.
11. Gusti Ayu Arwati, Edy Herianto Majlan, Wan Ramli Wan Daud, Loh Kee Shyuan, Khuzaimah Binti Arifin, Teuku Husaini, Sagir Alva, Nabilah Afiqah Mohd Radzuan 2019. Kesan pemendapan elektroforesis gam Arab terhadap halaju kakisan pada aluminium 5052. Sains Malaysiana 48(2):401–406.
12. Nur Fawwaz Asri, Teuku Husaini, Abu Bakar Sulong, Edy Herianto Majlan, Wan Ramli Wan Daud, Bushroa Abdul Razak, Nabilah Afiqah Mohd Radzuan 2019. Chromium Carbonitride (CrCN) Coatings on SUS 316L with potential application as bipolar plate in PEMFC. International Journal of Engineering & Technology 8 (1.1):44-52
13. Ahmad Zubair Yahaya, Mahendra Rao Somalu, Andanastuti Muchtar, Shaharin Anwar Sulaiman, Wan Ramli Wan Daud 2019. Effect of particle size and temperature on gasification performance of coconut and palm kernel shells in downdraft fixed-bed reactor. Energy 175: 931-940
14. Umi Azmah Hasran, Siti Kartom Kamarudin, Burhanuddin Yeop Majlis, Wan Ramli Wan Daud, Abdul Amir Hassan Kadhum, Gandi Sugandi 2019. Nd: YAG laser fabrication of silicon electrode plates for a combined-mode micro direct methanol fuel cell. Malaysian Journal of Analytical Sciencesl 23(2):345 – 354.
15. Umi Azmah Hasran, Siti Kartom Kamarudin, Burhanuddin Yeop Majlis, Wan Ramli Wan Daud, Abdul Amir Hassan Kadhum, Gandi Sugandi 2019. Laser-assisted silicon etching for micro fuel cell electrode plate fabrication. Malaysian Journal of Analytical Sciences 23 (2): 362 – 375.
16. Mulyazmi, Daud, W.R.W., Rahman, E.D., Purwantika, Mulya, P.A dan Sari, N.G. 2019. Effect of operating conditions on the liquid water content flowing out of the cathode side and the stability of pem fuel cell performance. International Journal of Technology 10(3): 634-643
17. Lim, B.H., Majlan, E.H., Daud, W.R.W., Rosli M.I. & Husaini T.2019. Three-dimensional study of stack on the performance of the proton exchange membrane fuel cell. Energy 169: 338-343.
18. Daud, S.M., Daud, W.R.W., Bakar, M.H.A., Kim, B.H., Somalu, M.R., Jahim, J.M., Muchtar, A. & Ghasemi, M. 2019. A comparison of long-term fouling performance by zirconia ceramic filter and cation exchange in microbial fuel cells. International Biodeterioration & Biodegradation 136:63-70

**Year 2018:**

1. Gusti Ayu Arwati, Edy Herianto Majlan, Wan Ramli Wan Daud, Khuzaimah Binti Arifin, Teuku Husaini, Nabilah Afiqah Mohd Radzuan 2018. Kesan Pemendapan Elektroforesis Gam Arab Terhadap Kakisan SS316 L dalam Persekitaran Asid (Effect of Arabic Gum Electrophoresis Desposition on Corrosion of SS316L in Acidic). Jurnal Kejuruteraan SI 1(1): 59-64.
2. Shamsuddin, R.A., Wan Daud, W.R., Hong, K.B.,Jahim, J.M., Abu Bakar, M.H., Yunus, R.M., & Aqma Wan Mohd Noor, W.S. 2018. Electrochemical characterisation of heat-treated metal and non-metal anodes using mud in microbial fuel cell. Sains Malaysiana 47 (12):3043-3049.
3. Raba’atun Adawiyah Shamsuddin, Mimi Hani Abu Bakar, Rozan Mohamad Yunus, Wan Ramli Wan Daud, Jamaliah Md. Jahim & Wan Syaidatul Aqma 2018. Aplikasi keluli tahan karat sebagai elektrod logam di dalam sistem bioelektrokimia (Stainless Steel Application as Metal Electrode in Bioelectrochemical System) Jurnal Kejuruteraan SI 1(1) 2018: 65-75.
4. Wafi, N.I.B., Daud, W.R.W., Ahmad, A., Majlan E.H. & Somalu, M.R. 2018. Effect of lithium hexafluorophosphate LiPF6 and 1-butyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide [Bmim] [TFSI] immobilized in poly(2-hydroxyethyl methacrylate) PHEMA. Polymer Bulletin. 76 (7): 3693–3707
5. Lim, B.H., Majlan, E.H., Daud, W.R.W., Rosli M.I. & Husaini. T. 2018. Numerical analysis of flow distribution behavior in a proton exchange membrane fuel cell. Heliyon 4: e00845
6. Masniza Mohamed@Mahmood, Wan Ramli Wan Daud, Masturah Markom & Che Nurul Ain Nadirah Che Mansor 2018. Cosolvent selection for supercritical fluid extraction (SFE) of bioactive compounds from Orthosiphon stamineus (Pemilihan kopelarut bagi pengekstrakan bendalir lampau genting (SFE) sebatian bioaktif daripada Orthosiphon stamineus). Sains Malaysiana 47(8): 1741–1747.
7. Marliyana Mokhtar, Edy Herianto Majlan, Azizan Ahmad, Siti Masrinda Tasirin & Wan Ramli Wan Daud. 2018. Effect of ZnO filler on PVA-Alkaline solid polymer electrolyte for Aluminum-air battery applications. Journal of The Electrochemical Society, 165 (11): A1-A10.
8. Joy Wei Yi Liew, Kee Shyuan Loh, Azizan Ahmad, Kean Long Lim & Wan Ramli Wan Daud 2018. Effect of modified natural filler o -methylene phosphonic κ-carrageenan on chitosan-based polymer electrolytes, Energies, 11(7):1910.
9. Mostafa Ghasemi, Abdullah Al-Mamun, Ahmad Fauzi Ismail, Mahad Baawain, Saad A. Aljlil, Tahereh Jafary, Wan Ramli W. Daud 2018. Simultaneous organics, sulphate and salt removal in a microbial desalination cell with an insight into microbial communities. Desalination 445:204-212.
10. Toh, S.Y., Loh, K.S., Kamarudin, S.K. & Daud, W.R.W. 2018. Facile preparation of ultra-low Pt loading graphene-immobilized electrode for methanol oxidation reaction. International Journal of Hydrogen Energy 43(33): 16005-16014.
11. Satar, I., Daud, W.R.W., Kim, B.H., Somalu, M.R., Ghasemi, M., Bakar, M.H.A., Jafary, T. & Timmiati S.N. 2018. Performance of titanium–nickel (Ti/Ni) and graphite felt-nickel (GF/Ni) electrodeposited by Ni as alternative cathodes for microbial fuel cells. Journal of the Taiwan Institute of Chemical Engineers 89: 67-76
12. Swee Su Lim, Byung Hong Kim, Da Li, Yujie Feng, Wan Ramli Wan Daud, Keith Scott and Eileen Hao Yu 2018. Effects of applied potential and reactants to hydrogen-producing biocathode in a microbial electrolysis cell. Frontiers in Chemistry 6:318
13. N Sulaiman, MA Hannan, A Mohamed, PJ Ker, EH Majlan, WRW Daud 2018. Optimization of energy management system for fuel-cell hybrid electric vehicles: Issues and recommendations. Applied Energy 228:2061-2079.
14. Mohamed, W.A.N.W., Talib, S.F.A., Zakaria, I.A., Mamat, A.M.I. & Daud, W.R.W. 2018. Effect of dynamic load on the temperature profiles and cooling response time of a proton exchange membrane fuel cell Journal of the Energy Institute 91 (3), 349-357
15. Mahmud, M.S., Yaakob, Z., Mohamad, A.B., Daud, W.R.W. & Dai Viet, V.N. 2018. Amorphous structure in Cu-Zn-V-Al oxide composite catalyst for methanol reforming. IIUM Engineering Journal 19 (1):197-214
16. Ismail, A., Kamarudin, S.K., Daud, W.R.W., Masdar, S., Hasran, U.A. 2018. Development of 2D multiphase non-isothermal mass transfer model for DMFC system. Energy 152:263-276.
17. Samad, S., Loh, K.S., Wong, W.Y., Lee, T.K., Sunarso, J., Chong, S.T. & Daud, W.R.W. 2018. Carbon and non-carbon support materials for platinum-based catalysts in fuel cells. International Journal of Hydrogen Energy 43(16):7823-7854.
18. Majlan, E.H., Rohendi, D., Daud, W.R.W., Husaini, T., &, Haque, M.A. 2018. Electrode for proton exchange membrane fuel cells: A review. Renewable and Sustainable Energy Reviews 89:117-134
19. Leong, J.X., Diño, W.A., Ahmad, A., Daud, W.R.W. & Kasai, H. 2018. Increasing the proton conductivity of sulfonated polyether ether ketone by incorporating graphene oxide: morphology effect on proton dynamics. Japanese Journal of Applied Physics 57 (3): 035201
20. Zakaria, I., Mohamed, W.A.N.W., Azmi, WE.H., Mamat, A.M.I., Mamat, R. & Daud, W.R.W. 2018 Thermo-electrical performance of PEM fuel cell using Al2O3 nanofluids. 2018. International Journal of Heat and Mass Transfer 119:460-471.
21. Daud, S.M., Daud, W.R.W., Kim, B.H., Somalu, M.R., Bakar, M.H.A., Muchtar, A., Jahim, J.M., Lim, S.S., & Chang, I.S. 2018. Comparison of performance and ionic concentration gradient of two-chamber microbial fuel cell using ceramic membrane (CM) and cation exchange membrane (CEM) as separators. Electrochimica Acta 259: 365-376.

**Year 2017:**

1. Jaafar, S,N.H., Minggu, L.J., Arifin, K., Kassim, M.B. & Daud, W.R.W. 2017. Photoelectrochemical analysis of titanium dioxide by using oxalic acid as a sacrificial donor. Jurnal Teknologi 79 (5–3) 125–130.
2. Jaafar, S,N.H., Minggu, L.J., Arifin, K., Kassim, M.B. & Daud, W.R.W. 2017. Natural dyes as TIO2 sensitizers with membranes for photoelectrochemical water splitting: An overview. Renewable and Sustainable Energy Reviews 78:698–709.
3. Asri, N.F., Husaini, T., Majlan, E.H., Sulong, A.B. & Daud, W.R.W. 2017. Electrochemical behaviour and interfacial contact resistance of Ti-6Al-4V and SUS 316L plates with potential application as a bipolar plate in PEMFC. Journal of Mechanical Engineering SI 4(1):155-170.
4. Satar, I., Daud, W.R.W, Kim, B.H., Somalu, M.R. & Ghasemi, M. 2017 Immobilized mixed-culture reactor (IMcR) for hydrogen and methane production from glucose. Energy 139:1188-1196
5. Liew, J.W.Y., Loh, K.S., Ahmad, A,. Lim, K.L. Daud W.R.W. 2017. Synthesis and characterization of modified κ-carrageenan for enhanced proton conductivity as polymer PLOS one 12 (9): e0185313.
6. Jafary, T., Daud, W.R.W., Ghasemi, M., Kim, B.H., Carmona-Martínez, A.A., Bakar, M.H.A., Jahim, J.M., & Ismail, M. 2017. A comprehensive study on development of a biocathode for cleaner production of hydrogen in a microbial electrolysis cell. Journal of Cleaner Production 164:1135-1144
7. Fadzillah, D.M., Rosli, M.I., Talib, M.Z.M., Kamarudin, S.K. & Daud, W.R.W. 2017. Review on microstructure modelling of a gas diffusion layer for proton exchange membrane fuel cells. Renewable and Sustainable Energy Reviews 77:1001-1009.
8. Daud, W.R.W., Rosli, R.E., Majlan, E.H., Hamid, S.A.A., Mohamed, R. & Husaini T. 2017. PEM fuel cell system control: A review. Renewable Energy 113: 620-638.
9. Lim, S.S., Yu, E.H., Daud, W.R.W., Kim, B.H. & Scott, K. 2017. Bioanode as a limiting factor to biocathode performance in microbial electrolysis cells. Bioresource Technology 238: 313-324.
10. Somalu, M.R., Muchtar, A., Daud, W.R.W. & Brandon, N.P. 2017. Screen-printing inks for the fabrication of solid oxide fuel cell films: a review. Renewable and Sustainable Energy Reviews 75, 426-439.
11. Daud, W.R.W., Kamarudin, S.K., Ahmad, A., Nasef, M.M. & Mohamad, A.B. 2017. Preface to the special issue on “Sustainable fuel cell and hydrogen technologies: The 5th International Conference on Fuel Cell and Hydrogen Technology (ICFCHT 2015), 1–3 September 2015, Kuala Lumpur, Malaysia”. International Journal of Hydrogen Energy 42 (14), 8973-8974.
12. Masdar, M.S., Dedikarni, Zainoodin, A.M., Rosli, M.I., Kamarudin, S.K., Daud, W.R.W. 2017 Performance and stability of single and 6-cell stack passive direct methanol fuel cell (DMFC) for long-term operation. International Journal of Hydrogen Energy 42 (14): 9230-9242.
13. Rosli, R.E., Sulong, A.B., Daud, W.R.W., Zulkifley, M.A., Husaini, T., Rosli, M.I., Majlan, E.H. & Haque, M.A. 2017. A review of high-temperature proton exchange membrane fuel cell (HT-PEMFC) system. International Journal of Hydrogen Energy 42 (14): 9293-9314.
14. Satar, I., Ghasemi, M., Aljlil, A.S., Isahak, W.N.R.W., Abdalla, A.M., Alam, J., Daud, W.R.W., Yarmo, M.A., Akbarzadehh, O. 2017. Production of hydrogen by Enterobacter aerogenes in an immobilized cell reactor. International Journal of Hydrogen Energy 42 (14): 9024-9030.
15. Ghasemi, M., Ahmad, A., Jafary, T., Azad, A.K., Kakooei, S., Daud, W.R.W. & Sedighi, M. 2017. Assessment of immobilized cell reactor and microbial fuel cell for simultaneous cheese whey treatment and lactic acid/electricity production. International Journal of Hydrogen Energy 42 (14): 9107-9115.
16. Jafary, T., Daud, W.R.W., Ghasemi, M., Kim, B.H., Bakar, M.H.A. & Jahim, J.M. 2017. Assessment of recirculation batch mode of operation in bioelectrochemical system; a way forward for cleaner production of energy and waste treatment. Journal of Cleaner Production 142: 2544-2555.
17. Faisal, M.N., Mohamed, A., Hannan, M.A., Daud, W.R.W. & Majlan, E.H. 2017. An improved multidevice interleaved boost converter with novel multiplex controller for fuel cell. Jurnal Teknologi 79 (1): 143-151
18. Asri, N.F., Husaini, T., Sulong, A.B., Majlan, E.H. & Daud, W.R.W. 2017. Coating of stainless steel and titanium bipolar plates for anticorrosion in PEMFC: A review. International Journal of Hydrogen Energy 42 (14): 9135–9148.
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