

**Penerbitan Ahli Akademik Sehingga Disember 2016 berdasarkan sumber Scopus**

| <b>Bil.</b> | <b>Nama</b>                            | <b>ID Scopus<br/>Author Last Name</b> | <b>ID Scopus<br/>Author Initials or<br/>First Name</b> | <b>Penerbitan 2016<br/>Berdasarkan sumber Scopus</b>  |
|-------------|--|---------------------------------------|--|---|
| 1.          | Prof. Ir. Dr. Ahmad bin Jusoh          | Jusoh                                 | Ahmad  | <ul style="list-style-type: none"> <li>i. Fruit waste as feedstock for recovery by pyrolysis technique</li> <li>ii. A study of coagulating protein of Moringa oleifera in microalgae bio-flocculation</li> <li>iii. Optimization of biomass harvesting of microalgae, Chlorella sp. utilizing auto-flocculating microalgae, Ankistrodesmus sp. as bio-flocculant</li> <li>iv. Balancing of nutrient uptake by water spinach (<i>Ipomoea aquatica</i>) and mustard green (<i>Brassica juncea</i>) with nutrient production by African catfish (<i>Clarias gariepinus</i>) in scaling aquaponic recirculation system</li> <li>v. Biodegradation of COD from wool processing plant effluent utilizing low-cost sequencing batch reactor</li> <li>vi. Progress in waste oil to sustainable energy, with emphasis on pyrolysis techniques</li> <li>vii. Activated Carbon for Catalyst Support from Microwave Pyrolysis of Orange Peel</li> </ul> |
| 2.          | Prof. Dr. Nora`aini binti Haji Ali     | Ali                                   | Nora'aini  | Immobilised metal affinity chromatography (IMAC) beads for lysozyme separation: Synthesis and characterization study   [Kromatografi afiniti logam dipegun (IMAC) untuk pemisahan lysozim: Sintesis dan kajian pencirian]   |
| 3.          | Prof. Dr. Wan Mohd Norsani bin Wan Nik | Wan Nik                               | W.B or W.  | <ul style="list-style-type: none"> <li>i. Balancing of nutrient uptake by water spinach (<i>Ipomoea aquatica</i>) and mustard green (<i>Brassica juncea</i>) with nutrient production by African catfish (<i>Clarias gariepinus</i>) in scaling aquaponic recirculation system</li> </ul>   |

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|    |   |       |                 | <ul style="list-style-type: none"> <li>ii. Lawsonia inermis performance as corrosion inhibitor for mild steel in seawater</li> </ul>   |
|    |   |       |                 | <ul style="list-style-type: none"> <li>iii. Protection against corrosion of aluminum alloy in marine environment by lawsonia inermis</li> </ul>  |
|    |   |       |                 | <ul style="list-style-type: none"> <li>iv. Lawsonia inermis performance as corrosion inhibitor for mild steel in seawater</li> </ul>   |
|    |   |       |                 | <ul style="list-style-type: none"> <li>v. Mercury determination in biological organism in the Estuary of Muar River, West Johor, Malaysia</li> </ul>   |
| 4. | Capt. Mohd Naim bin Fadzil                    | Tiada | Tiada           | The Malaysian Seafarers Psychological Distraction Assessment Using a TOPSIS Method   |
| 5. | Prof. Madya Dr. Mohamad bin Awang             | Awang | Mohamad         | <ul style="list-style-type: none"> <li>i. Removal of Neutral Red Dye from Aqueous Solution by Raw and Microwave-Chemical Modified Coastal Plant, <i>Casuarina equisetifolia</i> Seeds as Adsorbents, International Journal of Applied Environmental Sciences (2016).</li> <li>ii. A Comparative Study on Equilibrium Adsorption of Dyes on Adsorbents Prepared from Coastal Plant, <i>C. equisetifolia</i> Seeds via Green Modification and Activated Carbon, Key Engineering Materials (2016).</li> <li>iii. Preparation And Performance Of Sustainable Mortar Containing Windscreen Glass Waste Powder (Wgwp) , Jurnal Teknologi (2016).</li> <li>iv. The Effects Of Automotive Windscreen Glass Waste Powder (Wgwp) On Strength Performance Of Cement Mortar, Pertanika (2016)</li> </ul> |
| 6. | Prof. Madya Ir. Dr. Mohammad Fadhli bin Ahmad | Ahmad | Mohammad Fadhli | <ul style="list-style-type: none"> <li>i. Experimental study on bottom boundary layer beneath solitary wave</li> <li>ii. The effects of wave activity on overtopping and scouring on a vertical breakwater</li> <li>iii. Experiment investigation of turbulence generated by solitary wave over smooth beds</li> <li>iv. Prediction of energy performance by adopting overtopping breakwater for energy conversion (OBREC) concept in Malaysia waters</li> <li>v. Hydrodynamics modelling at setiu wetland, Terengganu</li> </ul>  |

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|     |  |           |                 | vi. Modelling the causal relationship of risk factors associated to coastal erosion using dematel method   |
| 7.  | Prof. Madya Ir. Dr. Eng. Ahmad Fitriadhy             | Fitriadhy | Ahmad           | Lawsonia inermis performance as corrosion inhibitor for mild steel in seawater   |
| 8.  | Prof. Madya Dr. Khalid bin Samo                      | Samo      | Khalid B.       | Prediction of energy performance by adopting overtopping breakwater for energy conversion (OBREC) concept in Malaysia waters                         |
| 9.  | Dr. Wan Mariam binti Wan Muda                        | Wan Muda  | W. M.           | Feasibility study of optimization and economic analysis for grid-connected renewable energy electric boat charging station in Kuala Terengganu       |
| 10. | Dr. Nurul Hayati binti Idris                         | Idris     | N. H.           | i. Enhanced capacitance of hybrid layered graphene/nickel nanocomposite for supercapacitors  |
|     |  |           |                 | ii. Disordered spinel $\text{LiNi}_0.5\text{Mn}_1.5\text{O}_4$ cathode with improved rate performance for lithium-ion batteries                      |
|     |  |           |                 | iii. Comparison on Electrochemical Performances of $\text{LiNi}_0.5\text{Mn}_1.5\text{O}_4$ Cathode Materials Synthesized Using Different Precursors |
| 11. | Dr. Salisa binti Abdul Rahman                        | Salisa    | A. R.           | Characterization and development of a KL driving cycle for PHERB powertrain  |
| 12. | Dr. Noor Zaitun binti Yahaya                         | Yahaya    | Noor Zaitun     | i. Environmental quarry system based on integrated digital objects: The conceptual model   |
|     |  |           |                 | ii. A model for environmental quarry system based on particles, vibration and noise components   |
| 13. | Dr. Wan Rafizah binti Wan Abdullah @ Wan Abd. Rahman | Abdullah  | Wan Rafizah Wan | i. Preliminary characteristic of electrical non-linearity co doped CMO-ZNO based varistor ceramic  |
|     |  |           |                 | ii. Effect of $\text{MnO}_2$ doping on nonlinear coefficient of Zn-Bi-Ti-O varistor ceramics   |
|     |  |           |                 | iii. The sintering effect of lanthanum-calcium manganite doping on microstructure and non-linear coefficient of zinc oxide varistor                  |
|     |  |           |                 | iv. Stability of $\text{ZnO-Pr}_6\text{O}_{11}\text{-Cr}_2\text{O}_3$ varistor ceramics against electrical degradation                               |

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| 14. | Dr. Ahmad Nazri bin Dagang | Dagang | A. N.     | <ul style="list-style-type: none"> <li>i. Significance of substrate temperature on electrical conductivity, hall effect, and thickness of bilayer heterojunction organic solar cell using <i>Rhodomyrtus tomentosa</i> (Aiton) Hassk and <i>Ixora coccinea</i> l dye</li> <li>ii. Morphological and electrical characterization of hybrid thin-film composed of titania nanocrystals, poly (3-hexylthiophene) and Piper betle linn</li> <li>iii. Performances analysis of capillary plasma antenna array</li> <li>iv. Electrical conductivity and hall effect study of organic solar cell using downy rose myrtle berries as natural dye: A heat treatment</li> </ul>   |
| 15. | Dr. Lam Su Shiung          | Lam    | Su Shiung | <ul style="list-style-type: none"> <li>i. Recovery of diesel-like fuel from waste palm oil by pyrolysis using a microwave heated bed of activated carbon</li> <li>ii. Progress in biomass gasification technique - With focus on Malaysian palm biomass for syngas production</li> <li>iii. Fruit waste as feedstock for recovery by pyrolysis technique</li> <li>iv. Optimization of biomass harvesting of microalgae, <i>Chlorella</i> sp. utilizing auto-flocculating microalgae, <i>Ankistrodesmus</i> sp. as bio-flocculant</li> <li>v. Syngas production from CO<sub>2</sub> reforming of methane over neodymium sesquioxide supported cobalt catalyst</li> <li>vi. Production of CO-rich hydrogen from methane dry reforming over lanthania-supported cobalt catalyst: Kinetic and mechanistic studies</li> <li>vii. Effect of mixture flow stratification on premixed flame structure and emissions under counter-rotating swirl burner configuration</li> <li>viii. Production of pyrolyzed oil from crude glycerol using a microwave heating technique</li> </ul> |

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|     |                         |        |          | ix. Progress in waste oil to sustainable energy, with emphasis on pyrolysis techniques   |
|     |                         |        |          | x. Pyrolysis recovery of waste shipping oil using microwave heating  |
|     |                         |        |          | xi. Activated Carbon for Catalyst Support from Microwave Pyrolysis of Orange Peel  |
| 16. | Dr. Mohammad bin Ismail | Ismail | Mohammad | i. Improved hydrogen storage properties of NaAlH <sub>4</sub> [sbnd]MgH <sub>2</sub> [sbnd]LiBH <sub>4</sub> ternary-hydride system catalyzed by TiF <sub>3</sub>          |
|     |                         |        |          | ii. Hydrogen storage properties of a destabilized MgH <sub>2</sub> -Sn system with TiF <sub>3</sub> addition   |
|     |                         |        |          | iii. Effect of Na <sub>3</sub> FeF <sub>6</sub> catalyst on the hydrogen storage properties of MgH <sub>2</sub>  |
|     |                         |        |          | iv. Catalytic effect of CeCl <sub>3</sub> on the hydrogen storage properties of MgH <sub>2</sub>   |
|     |                         |        |          | v. Improved hydrogen storage properties of MgH <sub>2</sub> catalyzed with K <sub>2</sub> NiF <sub>6</sub>   |
|     |                         |        |          | vi. The Hydrogen Storage Properties of Destabilized MgH <sub>2</sub> -AlH <sub>3</sub> (2:1) System  |
|     |                         |        |          | vii. Study the Effect of NiF <sub>2</sub> Additive on the Hydrogen Sorption Properties of 4MgH <sub>2</sub> +Li <sub>3</sub> AlH <sub>6</sub> Destabilized System          |
|     |                         |        |          | viii. Effect of SrFe <sub>12</sub> O <sub>19</sub> nanopowder on the hydrogen sorption properties of MgH <sub>2</sub>  |
|     |                         |        |          | ix. Enhanced hydrogen storage properties of MgH <sub>2</sub> co-catalyzed with K <sub>2</sub> NiF <sub>6</sub> and CNTs  |
|     |                         |        |          | x. Synthesis and Characterization of New Metal-Organic Framework Derived from 6-(Methoxycarbonyl) Pyridine-2-Carboxylic Acid as Application for Hydrogen Storage Materials |

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|     |                                |             |                 | xi. Hydrogen sorption improvement of MgH <sub>2</sub> catalyzed by CeO <sub>2</sub> nanopowder  |
| 17. | Dr. Mohd Asamudin bin A.Rahman | Rahman      | Mohd Asamudin A | Numerical simulations of vortex-induced vibrations on vertical cylindrical structure with different aspect ratios   |
| 18. | Dr. Mohd Hairil bin Mohd       | Mohd Hairil | Mohd            | Numerical simulations of vortex-induced vibrations on vertical cylindrical structure with different aspect ratios   |
| 19. | Dr. Muhamad Zalani bin Daud    | Daud        | Muhamad Zalani  | A novel coordinated control strategy considering power smoothing for a hybrid photovoltaic/battery energy storage system  |
| 20. | Dr. Nik Aziz bin Nik Ali       | Nik Aziz    | N.A.            | i. Electrical conductivity and hall effect study of organic solar cell using downy rose myrtle berries as natural dye: A heat treatment   |
|     |                                |             |                 | ii. Significance of substrate temperature on electrical conductivity, hall effect, and thickness of bilayer heterojunction organic solar cell using Rhodomyrtus tomentosa (Aiton) Hassk and Ixora coccinea L dye                                    |
|     |                                |             |                 | iii. Mixture of Zinc oxide microrod and poly (3-Dodecylthiophene) with melastoma malabathricum dye for hybrid solar cell  |
| 21. | Dr. Nurul Adyani binti Ghazali | Ghazali     | N. A.           | i. A ten-year investigation on ozone and its precursors at Kemaman, Terengganu, Malaysia  |
|     |                                |             |                 | ii. Fitting statistical distributions functions on ozone concentration data at coastal areas   [Penyesuaian fungsi taburan statistik pada data kepekatan ozon di kawasan pesisiran pantai]  |
|     |                                |             |                 | iii. Modelling distribution function of surface ozone concentration for selected suburban areas in Malaysia   [Permodelan fungsi taburan kepekatan permukaan ozon di kawasan Sub-Bandar yang terpilih di Malaysia]                                  |
| 22. | Dr. Sofiah binti Hamzah        | Hamzah      | Sofiah          | i. Isolation and purification of lysozyme from albumin: Effect of albumin concentration, pH and ionic strength of buffer solution   [Pemisahan dan penulenan lisozim dari albumin: Kesan kepekatan albumin, pH dan kekuatan ionik larutan penimbal] |

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|     |                             |         |      | ii. Integration of different sintering temperature of hydroxyapatite and polyethersulfone membrane for fouling mitigation  |
|     |                             |         |      | iii. Immobilised metal affinity chromatography (IMAC) beads for lysozyme separation: Synthesis and characterization study   [Kromatografi afiniti logam dipegun (IMAC) untuk pemisahan lysozim: Sintesis dan kajian pencirian] |
| 23. | Dr. Suriani binti Mat Jusoh | Suriani | M.J. | Lawsonialnermis Extract Enhances Performance of Corrosion Protection of Coated Mild Steel in Seawater  |

▪ Jumlah Penerbitan (Sumber Scopus): **76 artikel**