

RESUME

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Educational Background

Doctor of Philosophy in Science (Physics)

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Name of Institution : Universiti Teknologi MARA (UiTM)
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Master of Science (Physics)

Field : Physics
Name of Institution : Universiti Teknologi Malaysia (UTM)
Attachment Program : University of Bristol, UK
Year : 2005

Bachelor of Science (Industrial Physics)

Grade : Second Class Upper (CGPA: 3.51)
Field of Study : Physics
Name of Institution : Universiti Teknologi Malaysia (UTM)
Year : 2002

Publications

Chapters in Book:

- [1] Cellulose Reinforced Biodegradable Polymer Composite Film for Packaging Applications. Book Chapter: Bionanocomposites for Packaging Applications. Springer pp: 49-69, 2018.
- [2] Editor for Nanoscience, Nanotechnology and Nanoengineering (Selected peer reviewed papers from International Conference on Nanoscience & Nanotechnology 2013 (Nano-SciTech 2013)), Trans Tech Publications Inc., Switzerland, 2014.
- [3] Aluminium Doped Zinc Oxide Nanorod Array Ultraviolet Photoconductive Sensors. Book Chapter: Renewable Energy and Sustainable Developments Scientific & Academic Publishing, USA. Chapter 9. pp: 313-356, 2014.
- [4] Hydrogenated Amorphous Carbon Films. Book Chapter: Carbon and Oxide Nanostructures Springer Verlag Publishers. Chapter 4. pp: 99-122, 2010.
- [5] Nanostructured Materials, Book Chapter Carbon and Oxide Nanostructures Springer Verlag Publishers. Chapter 3. pp: 65-98, 2010.
- [6] Diamond: Synthesis, Characterisation and Applications. Book Chapter: Carbon and Oxide Nanostructures Springer Verlag Publishers Chapter 9. pp: 227-252, 2010.

Academic Journals:

First and Corresponding Author (Recent and Top publications):

- [1] **A. B. Suriani** et al. (2021) "Carbon nanotubes from waste cooking palm oil as adsorbent materials for the adsorption of heavy metal ions" **Environmental Science & Pollution Research**, Springer 28 (46) 65171-65187 (**Impact Factor: 4.223**).

- [2] Muqoyyanah, **A. B. Suriani** et al. (2021) "Effect of TiO₂ phase and nanostructures as photoanode on the performance of dye-sensitised solar cells" **Bulletin of Material Science**, Springer 44 (1) 10 (**Impact Factor: 1.392**).
- [3] N. J. Idris, **A. B. Suriani** et al. (2021) "Photocatalytic performance improvement by utilising go_mwcnts hybrid solution on sand/zno/tio₂-based photocatalysts to degrade methylene blue dye" **Environmental Science & Pollution Research**, Springer 28 (6) 6966-6979 (**Impact Factor: 4.223**).
- [4] R. Mohamat, **A. B. Suriani** et al. (2021) "Effect of surfactants' tail number on the PVDF/GO/TiO₂-based nanofiltration membrane for dye rejection and antifouling performance improvement" **International Journal of Environmental Research**, Springer 15 (1) 149-161 (**Impact Factor: 2.007**).
- [5] Muqoyyanah, **A. B. Suriani** et al. (2020) "Synthesis, transfer and application of graphene as a transparent conductive film: A review" **Bulletin of Material Science**, Springer 43 310 (**Impact Factor: 1.392**).
- [6] **A. B. Suriani** et al. (2019) "Incorporation of electrochemically exfoliated graphene oxide and TiO₂ into polyvinylidene fluoride-based nanofiltration membrane for dye rejection" **Water Air & Soil Pollution**, Springer 230 176 (**Impact Factor: 1.774**).
- [7] **A. B. Suriani** et al. (2019) "Titanium dioxide/agglomerated free reduced graphene oxide hybrid photoanode film for dye-sensitized solar cells photovoltaic performance improvement" **Nano-Structures & Nano-Objects**, Elsevier 18 100314 (**CiteScore 2019: 5.6**).
- [8] **A. B. Suriani** et al. (2019) "Improved DSSC photovoltaic performance using reduced graphene oxide-carbon nanotube/platinum assisted with customised triple tail surfactant as counter electrode and zinc oxide nanowire/titanium dioxide nanoparticle bilayer nanocomposite as photoanode" **Graphene Technology**, Springer, <https://doi.org/10.1007/s41127-019-00024-x>, pp 1-15.
- [9] N. J. Idris, **A. B. Suriani** et al. (2019) "Fabrication of sand/zinc oxide/titanium dioxide nanocomposite as photocatalyst" **Spektra: Jurnal Kajian Pendidikan Sains** vol. 5 pp 122-127.
- [10] R. Mohamat, **A. B. Suriani** et al. (2019) "Fabrication of nanofiltration membrane utilising surfactant via non-solvent induced phase separation method" **Spektra: Jurnal Kajian Pendidikan Sains** vol. 5 pp 128-133.
- [11] **A. B. Suriani** et al. (2018) "Reduced graphene oxide-multiwalled carbon nanotubes hybrid film with low Pt loading as counter electrode for improved photovoltaic performance of dye-sensitised solar cells." **Journal of Materials Science: Materials in Electronics**, Springer 161 70-83 (**Impact Factor 2017: 2.324**).
- [12] M. I. Kairi, M. K. N. M. Zuhan, M. Khavarian, B. Vigolo, **A. B. Suriani** et al. (2018) "Co-synthesis of large-area graphene and syngas via CVD method from greenhouse gases." **Materials Letters**, Elsevier 227 132-135 (**Impact Factor 2017: 2.687**).
- [13] **A. B. Suriani** et al. (2018) "Reduced graphene oxide/platinum hybrid counter electrode assisted by custom-made triple-tail surfactant and zinc oxide/titanium dioxide bilayer nanocomposite photoanode for enhancement of DSSCs photovoltaic performance." **Optik-International Journal for Light and Electron Optics**, Elsevier 161 70-83 (**Impact Factor 2017: 1.191**).
- [14] **A. B. Suriani** et al. (2018) "Improving the photovoltaic performance of DSSCs using a combination of mixed-phase TiO₂ nanostructure photoanode and agglomerated free reduced graphene oxide counter electrode assisted with hyperbranched surfactant." **Optik-International Journal for Light and Electron Optics**, Elsevier 139 201-208 (**Impact Factor 2017: 1.191**).
- [15] **A. B. Suriani** et al. (2017) "Electrical Enhancement of Radiation-Vulcanized Natural Rubber Latex Added with Reduced Graphene Oxide Additives for Supercapacitor Electrodes." **Journal of Materials Science**, Springer 52 6611-6622 (**Impact Factor 2017: 2.993**).
- [16] **A. B. Suriani** et al. (2017) "Enhanced photovoltaic performance using reduced graphene oxide assisted by triple-tail surfactant as an efficient and low-cost counter electrode for dye-sensitized solar cells." **Optik-International Journal for Light and Electron Optics**, Elsevier 139 201-208 (**Impact Factor 2017: 1.191**).
- [17] **A. B. Suriani** et al. (2016) "Highly conductive electrodes of graphene oxide/natural rubber latex-based electrodes by using a hyper-branched surfactant." **Materials and Design**, Elsevier 99 174-181 (**Impact Factor 2017: 4.525**).
- [18] **A. B. Suriani** et al. (2015) "A facile one-step method for graphene oxide/natural rubber latex nanocomposite production for supercapacitor applications." **Materials Letters**, Elsevier 161 665-668 (**Impact Factor 2017: 2.687**).
- [19] **A. B. Suriani** et al., (2016) "Fabrication of vertically aligned carbon nanotubes-zinc oxide nanocomposites and their field electron emission enhancement." **Materials and Design**, Elsevier 656 185-195 (**Impact Factor 2017: 4.525**).
- [20] **A. B. Suriani** et al. (2015) "Amorphous Al-Cu alloy nanowires decorated with carbon spheres synthesised from waste engine oil." **Journal of Alloys and Compound**, Elsevier 642 111-116 (**Impact Factor 2017: 3.779**).
- [21] **A. B. Suriani** et al. (2016) "Synthesis and field electron emission properties of waste cooking palm oil-based carbon nanotubes coated on different zinc oxide nanostructures." **Journal of Alloys and Compound**, Elsevier 656 368-377 (**Impact Factor 2017: 3.779**).
- [22] **A. B. Suriani** et al. (2016) "Synthesis of carbon nanofibers from waste chicken fat for field electron emission application." **Materials Research Bulletin**, Elsevier 70 524-529 (**Impact Factor 2017: 2.873**).
- [23] **A. B. Suriani** et al. (2015) "Enhanced field electron emission of flower-like zinc oxide on zinc oxide nanorods grown on carbon nanotubes." **Materials Letters**, Elsevier 149 66-69 (**Impact Factor 2017: 2.687**).
- [24] **A. B. Suriani** et al. (2015) "Quasi-aligned carbon nanotubes synthesised from waste engine oil." **Materials Letters**, Elsevier 139 220-223 (**Impact Factor 2017: 2.687**).
- [25] **A. B. Suriani** et al. (2015) "Synthesis, structural, and field electron emission properties of quasi-aligned carbon nanotubes from gutter oil." **Materials Chemistry and Physics**, Elsevier 165 1-7 (**Impact Factor 2017: 2.210**).
- [26] **A. B. Suriani** et al. (2016) "Scaled-up prototype of carbon nanotube production system utilizing waste cooking palm oil precursor and its nanocomposite application as supercapacitor electrodes." **J Mater Sci: Mater Electron**, Springer 271 1599-11605 (**Impact Factor 2017: 2.324**).

- [27] **A. B. Suriani** et al. (2013) "Vertically aligned carbon nanotubes synthesized from waste chicken fat." **Materials Letters**, Elsevier 101 61-64 (**Impact Factor 2017: 2.687**).
- [28] **A. B. Suriani** et al. (2010) "Vertically aligned carbon nanotubes synthesized from waste cooking palm oil." **Journal of the Ceramics Society of Japan** 118 963-968 (**Impact Factor 2017: 0.846**).
- [29] **A.B. Suriani** et al. (2009) "Synthesis of vertically aligned carbon nanotubes using natural palm oil as carbon precursor" **Materials Letters**, Elsevier 63 2704-2706 (**Impact Factor 2017: 2.687**).
- [30] **A.B. Suriani** et al. (2016) "Parametric study of waste chicken fat catalytic chemical vapour deposition for controlled synthesis of vertically aligned carbon nanotubes" **Cogent Physics**, Taylor Francis 3 1247486.

Co-Authored (Top publications):

- [31] M. Mariana, ..., **A. B. Suriani**, et al. (2022) "Recent trends and future prospects of nanostructured aerogels in water treatment applications" **Journal of Water Process Engineering**, Elsevier 45 102481 (**Impact Factor: 5.485**).
- [32] H. Nasution, ..., **A. B. Suriani**, et al. (2022) "Extraction and isolation of cellulose nanofibers from carpet wastes using supercritical carbon dioxide approach" **Polymers**, MDPI 14 (2) 326 (**Impact Factor: 4.329**).
- [33] N. K. A. Hamed, ..., **A. B. Suriani**, et al. (2022) "Photocatalytic degradation of methylene blue by flowerlike rutile-phase TiO₂ film grown via hydrothermal method" **Journal of Sol-Gel Science and Technology**, Springer <https://doi.org/10.1007/s10971-021-05691-y> (**Impact Factor: 2.326**).
- [34] L. Jonathan, L. J. Diguna, O. Samy, M. Muqoyyanah, **A. B. Suriani** et al. (2021) "Hybrid organic-inorganic perovskite halide materials for photovoltaics towards their commercialization" **Polymers**, MDPI 14 (5) 1059 (**Impact Factor: 4.329**).
- [35] H. A. Shabri, ..., **A. B. Suriani**, et al. (2021) "Low nickel, ceria zirconia-based micro-tubular solid oxide fuel cell: A study of composition and oxidation using hydrogen and methane fuel" **Sustainability**, MDPI 13 (24) 13789 (**Impact Factor: 3.251**).
- [36] S. Rizal, H. P. S. A. Khalil, ..., **A. B. Suriani**, et al. (2021) "Functional properties of Kenaf Bast Fibre Anhydride modification enhancement with bionanocarbon in polymer nanobiocomposites" **Polymers**, MDPI 13 (23) 4211 (**Impact Factor: 4.329**).
- [37] M. F. Malek, M. Robalah, **A. B. Suriani**, et al. (2021) "The utilization of waste cooking palm oil as a green carbon source for the growth of multilayer graphene" **Journal of Australian Ceramic Society**, Springer 57 (2) 347-358 (**Impact Factor: 1.307**).
- [38] S. N. M. Sharif, N. Hashim, I. M. Isa, **A. B. Suriani** et al. (2021) "Chitosan as a coating material in enhancing the controlled release behavior of zinc hydroxide nitrate–sodium dodecylsulphate–bispyribac nanocomposite" **Chemical Papers**, Springer 75 (2) 611-627 (**Impact Factor: 1.680**).
- [39] N. Parimon, M. H. Mamat, I. B. Shameem Banu, N. Vasimalai, M. K. Ahmad, **A. B. Suriani** et al. (2021) "Annealing temperature dependency of structural, optical and electrical characteristics of manganese-doped nickel oxide nanosheet array films for humidity sensing applications" **Nanomaterials and Nanotechnology**, SAGE Journals (Accepted) (**Impact Factor: 2.00**).
- [40] S. N. M. Sharif, N. Hashim, I. M. Isa, **A. B. Suriani** et al. (2021) "Polymeric nanocomposite-based herbicide of carboxymethyl cellulose coated-zinc/aluminium layered double hydroxide-quinclorac: a controlled release purpose for agrochemicals" **Journal of Polymers and the Environment**, Springer (Accepted) (**Impact Factor: 2.572**).
- [41] N. K. A. Hamed, M. K. Ahmad, N. H. H. Hairom, A. B. Faridah, M. H. Mamat, A. Mohamed, **A. B. Suriani** et al. (2020) "Dependence of photocatalysis on electron trapping in Ag-doped flowerlike rutile-phase TiO₂ film by facile hydrothermal method" **Applied Surface Science**, Elsevier 534 147571 (**Impact Factor: 6.182**).
- [42] M. S. Muda, A. Kamari, **A. B. Suriani** et al. (2020) "Chitosan-graphene oxide nanocomposites as water-solubilising agents for retenone pesticide" **Journal of Molecular Liquids**, Elsevier 318 114066 (**Impact Factor: 5.065**).
- [43] T. Ardyani, A. Mohamed, **A. B. Suriani** et al. (2020) "Electrochemical exfoliation of graphite in nanofibrillated kenaf cellulose (NFC)/surfactant mixture for the development of conductive paper" **Carbohydrate Polymers**, Elsevier 228 11536 (**Impact Factor: 5.158**).
- [44] N. A. Jamaluddin, A. Mohamed, **A. B. Suriani** et al. (2020) "Highly branched triple-chain surfactant-mediated electrochemical exfoliation of graphite to obtain graphene oxide: Colloidal behavior and application in water treatment" **Physical Chemistry Chemical Physics**, RSC 22 1-15 (**Impact Factor: 3.00**).
- [45] M. D. Nurhafizah, A. A. Aziz, **A. B. Suriani** et al. (2020) "Low-temperature exfoliated graphene oxide incorporated with different types of natural rubber latex: Electrical and morphological properties and its capacitance performance" **Ceramic International**, Elsevier 46 5610-5622 (**Impact Factor: 3.450**).
- [46] M. D. Nurhafizah, **A. B. Suriani** et al. (2020) "Effect of voltage applied for graphene oxide/latex nanocomposites produced via electrochemical exfoliation and its application as conductive electrodes" **Diamond & Related Materials**, Elsevier 101 107624 (**Impact Factor: 2.290**).
- [47] H. P. S. Abdul Khalil, F. Jummaat, E. B. Yahya, N. G. Olaiya, A. S. Adnan, M. Abdat, N. A. M. Nasir, A. S. Halim, U. S. U. Kumar, R. Bairwan, **A. B. Suriani** et al. (2020) "A review on micro- to nanocellulose biopolymer scaffold forming for tissue engineering application" **Polymers**, MDPI 12 2043 (**Impact Factor: 3.426**).
- [48] M. H. Mamat, N. Parimon, A. S. Ismail, I. B. Shameem Banu, S. Sathik Basha, R. A. Rani, A. S. Zoolfakar, M. F. Malek, **A. B. Suriani** et al. (2020) "Synthesis, structural and optical properties of mesostructured, X-doped NiO (x = Zn, Sn, Fe) nanoflake network films" **Material Research Bulletin**, Elsevier 127 110860 (**Impact factor: 3.355**).

- [49] S. N. M. Sharif, N. Hashim, I. M. Isa, **A. B. Suriani** et al. (2020) "The impact of hygroscopic chitosan coating on the controlled release behaviour of zinc hydroxide nitrate sodium dodecylsulphonate-imidacloprid nanocomposite" **New Journal of Chemistry**, RSC (Accepted) (**Impact Factor: 3.069**).
- [50] S. N. M. Sharif, N. Hashim, I. M. Isa, **A. B. Suriani** et al. (2020) "The influence of chitosan coating on the controlled release behaviour of zinc/aluminium-layered double hydroxide-quinclorac composite" **Materials Chemistry and Physics**, Elsevier 251 123076 (**Impact Factor: 2.781**).
- [51] S. N. M. Sharif, N. Hashim, I. M. Isa, **A. B. Suriani** et al. (2020) "Chitosan as a coating material in enhancing the controlled release behaviour of zinc hydroxide nitrate–sodium dodecylsulphate–bispyribac nanocomposite" **Chemical Papers**, Springer (Accepted) (**Impact Factor: 1.680**).
- [52] M. S. Amir Faiz , C. A. Che Azurhanim , Y. Yazid , **A. B. Suriani** et al. (2020) "Preparation and characterization of graphene oxide from tea waste and it's photocatalytic application of TiO₂/graphene nanocomposite" **Materials Research Express**, IOP Publishing 7 015613 (**Impact Factor:1.449**).
- [53] N. J. Ismail, M. H. D Othman, **A. B. Suriani** et al. (2020) "Fabrication of ceramic, hollow-fiber membrane: the effect of bauxite content and sintering temperature" **Clays and Clays Minerals**, Springer (Accepted) (**Impact Factor: 1.03**).
- [54] A. Norazlina, F. Mohamad, A. Talib, M. K. Ahmad, N. Nafarizal , C. F. Soon, **A. B. Suriani** et al. (2020) "Fabrication rutile-phased TiO₂ film with different concentration of hydrochloric acid towards the performance of dye-sensitized solar cell" **International Journal of Integrated Engineering** 12 115-124 (**Impact Factor: 1.02**).
- [55] A. Talib, M. K. Ahmad, N. Ahmad, N. Nafarizal, F. Mohamad, C. F. Soon, **A. B. Suriani** et al. (2020) "Performance of dye-sensitized solar cell using size controlled synthesis of TiO₂ nanostructure" **International Journal of Integrated Engineering** 12 106-114 (**Impact Factor: 1.02**).
- [56] Y. Azlina, M. N. Azlan, **A. B. Suriani** et al. (2020) "Optical properties of graphene oxide-coated tellurite glass for potential fiber optics" **Journal of Non-crystalline Solids**, Elsevier 536 120000 (**Impact Factor: 2.6**).
- [57] M. Ahmad, M. K. Ahmad, N. Nafarizal, C. F. Soon, **A. B. Suriani** et al. (2020) "Chemisorbed CO₂ molecules on ZnO nanowires (100 nm) surface leading forward enhanced piezoelectric voltage" **Vacuum**, Elsevier 182 109565 (**Impact Factor: 2.906**).
- [58] M. Z. Musa, M. H. Mamat, N. Vasimalai, I. B. Shameem Banu, M. F. Malek, M. K. Ahmad, **A. B. Suriani** et al. (2020) "Fabrication and structural properties of flower-like TiO₂ nanorod array films grown on glass substrate without FTO layer" **Materials Letters**, Elsevier 273 127902 (**Impact Factor: 2.572**).
- [59] M. M. Yusoff, M. H. Mamat, M. A. R. Abdullah, A. S. Ismail, M. F. Malek, A. S. Zoolfakar, S. A. M. Al Junid, **A. B. Suriani** et al. (2020) "Coupling heterostructure of thickness-controlled nickel oxide nanosheets layer and titanium dioxide nanorod arrays via immersion route for self-powered solid-state ultraviolet photosensor applications" **Measurement**, Elsevier 149 106982 (**Impact Factor: 2.791**).
- [60] M. H. Mohamed, M. H. D Othman, M. Z. M. Yusop, S. K. Hubadillah, Y. Iwamoto, **A. B. Suriani** et al. (2020) "Stability study of triple layer hollow fiber in solid oxide fuel cell with methane as fuel" **Ionics**, Springer (**Impact Factor: 2.289**).
- [61] H. M. M. Jin, N. Hashim, I. M. Isa, M. Z. Hussein, **A. B. Suriani** et al. (2020) "Synthesis and characterization of zinc hydroxides nitrates-sodium dodecyl sulphate fluazinam nano hosts for release properties" **Journal of Porous Materials**, Springer (**Impact Factor: 1.947**).
- [62] T. Ardyani, A. Mohamed, **A. B. Suriani** et al. (2019) "Surfactants with aromatic headgroups for optimizing properties of graphene/ natural rubber latex composites (NRL): Surfactants with aromatic amine polar heads" **Journal of Colloid and Interface Science**, Elsevier 545 184-194 (**Impact Factor 2017: 4.233**).
- [63] S. N. M. Sharif, N. Hashim, I. M. Isa, **A. B. Suriani** et al. (2019) "Controlled release formulation of zinc hydroxide nitrate intercalated with sodium dodecylsulphate and bispyribac anions: A novel herbicide nanocomposite for paddy cultivation" **Arabian Journal of Chemistry**, Elsevier 13 4513-4527 (**Impact Factor: 2.969**).
- [64] M. H. Mamat, N. Parimon , A. S. Ismail , I. B. Shameem Banu , S. Sathik Basha, G. V. Vijayaraghavan, M. K. Yaakob, **A. B. Suriani** et al. (2019) "Structural, optical, and electrical evolution of sol-gel immersion grown nickel oxide nanosheet array films on aluminium doping" **Journal of Materials Science: Materials in Electronics**, Springer (**Impact factor: 2.019**).
- [65] S. N. M. Sharif, N. Hashim, I. M. Isa, **A. B. Suriani** et al. (2019) "Surfactant-assisted imidacloprid intercalation of layered zinc hydroxide nitrate: Synthesis, characterisation and controlled release formulation" **Journal of Porous Materials**, Springer (**Impact Factor: 1.947**).
- [66] N. J. Ismail, M. H. D Othman, R. Kamaludin, M. I. Mohamad Esham, N. A. Ali, M. A. Rahman, J. Jaafar, **A. B. Suriani** (2019) "Characterization of Bauxite as a Potential Natural Photocatalyst for Photodegradation of Textile Dye" **Arabian Journal for Science and Engineering**, Springer (**Impact Factor: 1.092**).
- [67] Z. Muda, N. Hashim, I. M. Isa, S. Mustafar, **A. B. Suriani** et al. (2019) "Adsolubilisation of thiacloprid pesticide into the layered zinc hydroxide salt intercalated with dodecyl sulphate, for controlled release formulation" **Materials Research Innovation**, Taylor & Francis 24 279-288.
- [68] M. N. Azlan, M. K. Halimah, S. S. Hajer, **A. B. Suriani** et al. (2019) "Enhanced optical performance of tellurite glass doped with samarium nanoparticles for fiber optics application" **Chalcogenide Letters** 16 215-229.
- [69] M. N. Azlan, M. K. Halimah, S. S. Hajer, **A. B. Suriani** et al. (2019) "Electronic polarizability and third-order nonlinearity of Nd³⁺ doped borotellurite glass for potential optical fiber" **Materials Chemistry and Physics**, Elsevier 236 121812 (**Impact Factor: 2.781**).
- [70] M. N. Azlan, S. Z. Shafinas, M. K. Halimah, S. S. Hajer, **A. B. Suriani** et al. (2019) "Dielectric behaviour in erbium-doped tellurite glass for potential high-energy capacitor" **Journal of Materials Science: Materials in Electronic**, Springer (**Impact Factor: 2.019**).
- [71] N. Hashim, S. N. M. Sharif, Z. Muda, I. M. Isa, **A. B. Suriani** et al. (2019) "Release behavior of dichlorprop from Zn/Al-ldh-dichlorprop nanocomposite into chloride, carbonate and phosphate solutions" **Jurnal Teknologi** 81 1-10.

- [72] A. S. Ismail, M. H. Mamat, I. B. Shameem Banu, R. Amiruddin, M. F. Malek, N. Parimon, A. S. Zoolfakar, N. D. Md. Sin, **A. B. Suriani** et al. (2019) "Structural modification of ZnO nanorod array through Fe-doping: Ramification on UV and humidity sensing properties" **Nano-Structures & Nano-Objects**, Elsevier 18 100262 (**CiteScore 2018: 2.98**).
- [73] N. Hashim, N. S. Misuan, I. M. Isa, **A. B. Suriani**, et al. (2019) "carboxymethylcellulose-coated magnesium-layered hydroxide nanocomposite for controlled release of 3-(4-methoxyphenyl)propionic acid" **Arabian Journal of Chemistry**, Elsevier, <https://doi.org/10.1016/j.arabj.2019.04.004> (**Impact Factor 2017: 2.969**).
- [74] M. A. R. Abdullah, M. H. Mamat, A. S. Ismail, M. F. Malek, **A. B. Suriani** et al. (2019) "Direct and seedless growth of Nickel Oxide nanosheet architectures on ITO using a novel solution immersion method" **Materials Letters**, Elsevier 236 440-464.
- [75] M. H. Mamat, N. Parimon, A. S. Ismail, I. B. S Banu, S. S. Basha, G. V. Vijayaraghavan, M. K. Yaakob, **A. B. Suriani** et al. (2019) "Structural, optical, and electrical evolution of sol-gel-immersion grown nickel oxide nanosheet array films on aluminium doping" **Journal of Materials Science: Materials in Electronics**, Springer, <https://doi.org/10.1007/s10854-019-01330-z> (**Impact Factor 2017: 2.019**).
- [76] M. N. Azlan, M. K. Halimah, **A. B. Suriani** et al. (2019) "Upconversion properties of erbium nanoparticles doped tellurite glasses for high efficient laser glass" **Optics Communications**, Elsevier, <https://doi.org/10.1016/j.optcom.2019.05.022> (**Impact Factor 2017: 1.887**).
- [77] S. M. Mokhtar, M. K. Ahmad, C. F. Soon, N. Nafarizal, **A. B. Suriani** et al. (2018) "High responsivity of ultraviolet sensor-based rutile-phased TiO₂ nanorod arrays using different bias voltage, **Journal of the Australian Ceramic Society**, Springer 56 461-468 (**Impact Factor 2016: 0.744**).
- [78] M. M. Yusoff, M. H. Mamat, A. S. Ismail, M. F. Malek, A. S. Zoolfakar, **A. B. Suriani** et al. (2018) "Low-temperature-dependent growth of titanium dioxide nanorod arrays in an improved aqueous chemical growth method for photoelectrochemical ultraviolet sensing" **Journal of Materials Science: Materials in Electronics**, Springer 30 1017-1033 (**Impact Factor 2017: 2.019**).
- [79] M. I. Kairi, S. Dayou, N. I. Kairi, **A. B. Suriani** et al. (2018) "Toward high production of graphene flakes – A review on recent developments in their synthesis methods and scalability." **Journal of Materials Chemistry A**, RSC 615010--15026 (**Impact Factor 2017: 9.931**).
- [80] H. P. S. Abdul Khalil, A. Banerjee, C. K. Saurabh, Y. Y. Tye, **A. B. Suriani** et al. (2018) "Biodegradable Films for Fruits and Vegetables Packaging Application: Preparation and Properties" **Food Engineering Review**, Springer 10 139-153 (**Impact Factor 2017: 4.833**).
- [81] N. H. Mohtor, M. H. D Othman, **A. B. Suriani** et al. (2018) "Synthesis of nanostructured titanium dioxide layer onto kaolin hollow fibre membrane via hydrothermal method for decolourisation of reactive black 5" **Chemosphere**, Elsevier 208 595-605 (**Impact Factor 2017: 4.427**).
- [82] A. Mohamed, T. Ardyani, **A. B. Suriani** et al. (2018) "Preparation of conductive cellulose paper through electrochemical exfoliation of graphite: The role of anionic surfactant ionic liquids as exfoliating and stabilizing agents." **Carbohydrate Polymers**, Elsevier 201 48-59 (**Impact Factor 2017: 5.158**).
- [83] Z. Muda, N. Hashim, I. M. Isa, **A. B. Suriani** et al. (2018) "Synthesis and characterization of mesoporous zinc layered hydroxide isopropyl carb nanocomposite." **Journal of Saudi Chemical Society**, Elsevier (**Impact Factor 2017: 2.456**).
- [84] P. D. PriyaSwetha, H. Manisha, **A. B. Suriani** (2018) "Antimicrobial Properties of Sonochemically Treated Graphene Oxides Sheets" **Materials Today: Proceeding**, Elsevier 5 16669-16674.
- [85] A. S. Ismail, M. H. Mamat, M. F. Malek, M. M. Yusoff, N. D. Md. Sin, S. S. Shariffudin, A. S. Zoolfakar, **A. B. Suriani** et al (2018), "Intrinsic ZnO/Al-doped ZnO homojunction: structural and optical properties" **Indonesian Journal of Electrical Engineering and Computer Science** 12 393-398 (**Impact Factor 2016: 0.510**).
- [86] A. Mohamed, T. Ardyani, **A. B. Suriani** et al. (2018) "Rational design of aromatic surfactants for graphene/natural rubber latex nanocomposites with enhanced electrical conductivity." **Journal of Colloid and Interface Science**, Elsevier 516 34-47 (**Impact Factor 2016: 4.233**).
- [87] I. M. Isa, M. I. Saidin, M. Ahmad, N. Hashim, **A. B. Suriani**, et al. (2018) "Chloroplatinum(II) complex-modified MWCNTs paste electrode for electrochemical determination of mercury in skin lightening cosmetics." **Electrochimica Acta**, Elsevier 253 463-471 (**Impact Factor 2016: 4.803**).
- [88] A. S. Ismail, M. H. Mamat, M. M. Yusoff, M. F. Malek, A. S. Zoolfakar, R. A. Rani, **A. B. Suriani**, et al. (2018) "Enhanced humidity sensing performance using Sn-Doped ZnO nanorod array/SnO₂ nanowire heteronetwork fabricated via two-step solution immersion" **Materials Letters**, Elsevier 210 258-262 (**Impact Factor 2015: 2.572**).
- [89] M. I. Kairi, M. Khavarian, S. A. Bakar, B. Vigolo, A. R. Mohamed, (2018) "Recent Trends in Graphene Materials Synthesized by CVD With Various Carbon Precursors (Review)." **Journal of Materials Science**, Springer 53 851-879 (**Impact Factor 2016: 2.599**).
- [90] A. S. Ismail, M. H. Mamat, M. F. Malek, M. M. Yusoff, R. Mohamed, N. D. Md. Sin, **A. B. Suriani** et al. (2018) "Heterogeneous SnO₂/ZnO nanoparticulate film: facile synthesis and humidity sensing capability", **Materials Science in Semiconductor Processing**, Elsevier 81 127-138 (**Impact Factor 2016: 2.359**).
- [91] R. Mohamed, M. H. Mamat, A. S. Ismail, M. F. Malek, A. S. Zoolfakar, Z. Khusaimi, **A. B. Suriani**, et al. (2018) "hierarchically assembled tin-doped zinc oxide nanorods using low-temperature immersion route for low temperature ethanol sensing" **Journal of Materials Science: Materials in Electronics**, Springer 28 16292-16305 (**Impact Factor 2016: 2.019**).
- [92] M. M. Yusoff, M. H. Mamat, A. S. Ismail, M. F. Malek, Z. Khusaimi, **A. B. Suriani** et al. (2018) "Enhancing the performance of self-powered ultraviolet photosensor using rapid aqueous chemical-grown aluminum-doped titanium oxide nanorod arrays as electron transport layer", **Thin Solid Films**, Elsevier 81 127-138 (**Impact Factor 2016: 1.879**).
- [93] M. K. Ahmad, C. F. Soon, N. Nafarizal, **A. B. Suriani** et al. (2018) "Improvement in photo voltaic performance of rutile-phased TiO₂ nanorod/nanoflower-based dye-sensitized solar cell". **Journal of the Australian Ceramic Society**, Springer <https://doi.org/10.1007/s41779-018-0195-2> (**Impact Factor 2016: 0.744**).

- [94] S. M. Mokhtar, M. K. Ahmad, C. F. Soon, N. Nafarizal, A. B. Faridah, **A.B. Suriani** et al. (2018) "fabrication and characterization of rutile-phased titanium dioxide (TiO₂) nanorods array with various reaction times using one step hydrothermal method" **Optik-International Journal for Light and Electron Optics**, Elsevier 154 510-515 (**Impact Factor 2015: 0.835**).
- [95] Z. Muda, N. Hashim, I. M. Isa, N. M. Ali, **A. B. Suriani** et al. (2018) "Synthesis and characterization of carbamate insecticideintercalated zinc layered hydroxide modified with sodium dodecyl sulphate" **IOP Conf. Series: Materials Science and Engineering** 440 012003 doi:10.1088/1757-899X/440/1/012003.
- [96] A. A. Ameer, **A. B. Suriani** et al. (2018) "The fabrication of zinc oxide nanorods and nanowires by solgel immersion methods" **IOP Conf. Series: Journal of Physics: Conf. Series** 1170 (2019) 012005 IOP Publishing doi:10.1088/1742-6596/1170/1/012005.
- [97] N. Hashim, S. N. M. Sharif, Z. Muda, I. M. Isa, N. M. Ali, **A.B. Suriani** et al. (2018) "Preparation of zinc layered hydroxide-ferulate and coated zinc layered hydroxide-ferulate nanocomposites for controlled release of ferulic acid", **Materials research innovations**, Springer <https://doi.org/10.1080/14328917.2018.1444696>.
- [98] S. N. M. Sharif, N. Hashim, I. M. Isa, N. M. Ali, **A. B. Suriani** et al. (2018) "Preparation and characterisation of novel paddy cultivation herbicide nanocomposite from zinc/aluminium layered double hydroxide and quinclorac anion", **Materials research innovations**, Springer <https://doi.org/10.1080/14328917.2018.1452586>.
- [99] N. Hashim, Z. Muda, I. M. Isa, N. M. Ali, **A. B. Suriani** et al. (2017) "The effect of ion exchange and co-precipitation methods on the intercalation of 3-(4-methoxyphenyl) propionic acid into layered zinc hydroxide nitrate" **Journal of Porous Materials**, Springer, 4073/10.1007/s10934-017-0438-6, pp 1-10 (**Impact Factor 2015: 1.624**).
- [100] F. I. M. Fazli, M. K. Ahmad, C. F. Soon, N. Nafarizal, **A. B. Suriani** et al. (2017) "dye-sensitized solar cell using pure anatase TiO₂ annealed at different temperatures" **Optik-International Journal for Light and Electron Optics**, Elsevier 140 1063-1068 (**Impact Factor 2015: 0.835**).
- [101] M. K. Ahmad, C. F. Soon, N. Nafarizal, **A. B. Suriani** et al. (2016) "Effect of heat treatment to the rutile based dye sensitized solar cell" **Optik-International Journal for Light and Electron Optics**, Elsevier 127 4076-4079 (**Impact Factor 2015: 0.835**).
- [102] A. Mohamed, T. Ardyani, **A. B. Suriani** et al. (2016) "Graphene-philic surfactants for nanocomposites in latex technology". **Advances in Colloid and Interface Science**, Elsevier 230 54-69 (**Impact Factor 2015: 7.813**).
- [103] A. R. Marlinda, A. Pandikumar, S. Jayabal, N. Yusoff, **A. B. Suriani** et al. (2016) "Voltammetric determination of nitric oxide using a glassy carbon electrode modified with a nanohybrid consisting of myoglobin, gold nanorods, and reduced graphene oxide" **Microchimica Acta**, Springer 183 3077-3085 (**Impact Factor 2015: 4.831**).
- [104] N. Hashim, S. N. M. Sharif, I. M. Isa, S. A. Hamid, M. Z. Hussein, **A. B. Suriani** et al. (2017) "controlled release formulation of an anti-depression drug based on a l-phenylalanate-zinc layered hydroxide intercalation compound." **Journal of Physics and Chemistry of Solids**, Elsevier 105 35-44 (**Impact Factor 2015: 2.048**).
- [105] M. S. Rosmi, S. M. Shinde, N. D. A. Rahman, A. Thangaraja, S. Sharma, K. P. Sharma, Y. Yaakob, R. K. Vishwakarma, **A. B. Suriani**, et al. (2016) "Synthesis of uniform monolayer graphene on re-solidified copper from waste chicken fat by low pressure chemical vapor deposition." **Materials Research Bulletin**, Elsevier 83 573-580 (**Impact Factor 2015: 2.288**).
- [106] N. Hashim, N. S. Misuan, I. M. Isa, A. Kamari, A. Mohamed, **A. B. Suriani**, et al. (2016) "Development of novel nanocomposite consisting of 3-(4-methoxyphenyl) propionic acid and magnesium layered hydroxide for controlled-release formulation". **Journal of Experimental Nanoscience**, Taylor & Francis 11 776-797 (**Impact Factor 2015: 0.832**).
- [107] N. Hashim, S. N. M. Sharif, M. Z. Hussein, I. M. Isa, A. Kamari, A. Mohamed, N. M. Ali, **A. B. Suriani** et al. (2016) "Layered hydroxide anion exchanger and their applications related to pesticides: A Brief Review" **Materials Research Innovations**, Taylor & Francis 1-17 (**Impact Factor 2015: 0.830**).
- [108] M. K. Ahmad, S. M. Mokhtar, C. F. Soon, N. Nafarizal, **A. B. Suriani** et al. (2016) "Raman investigation of rutile-phased TiO₂ nanorods/nanoflowers with various reaction times using one step hydrothermal method." **J Mater Sci: Mater Electron**, Springer 27 7920-7926 (**Impact Factor 2015: 1.798**).
- [109] M. F. Malek, M. H. Mamat, T. Soga, S. A. Rahman, **A. B. Suriani** et al. (2016) "Thickness-controlled synthesis of vertically aligned c-axis oriented ZnO nanorod arrays: effect of growth time via novel dual sonication sol-gel process." **Japanese Journal of Applied Physics**, IOP Science 51 01AE15-1- 01AE15-6 (**Impact Factor 2015: 1.122**).
- [110] M. K. Ahmad, C. F. Soon, N. Nafarizal, **A. B. Suriani** et al. (2016) "Effect of heat treatment to the rutile based dye sensitized solar cell." **Optik-International Journal for Light and Electron Optics**, Elsevier 127 4076-4079 (**Impact Factor 2015: 0.742**).
- [111] A. S. Ismail, M. H. Mamat, N. D. Md. Sin, M. F. Malek, A. S. Zoofakar, **A. B. Suriani** et al. (2016) "Fabrication of hierarchical Sn-doped ZnO nanorod arrays through sonicated sol gel immersion for room temperature, resistive-type humidity sensor applications." **Ceramics International**, Elsevier 42 9785-9795 (**Impact Factor 2015: 2.758**).
- [112] M. H. Mamat, M. F. Malek, N. N. Hafizah, M. N. Asiah, **A. B. Suriani** et al. (2016) "Effect of oxygen flow rate on the ultraviolet sensing properties of zinc oxide nanocolumn arrays grown by radio frequency magnetron sputtering." **Ceramics International**, Elsevier 42 4107-4119 (**Impact Factor 2015: 2.758**).
- [113] M. R. M. Asyraf, M. M. Rana, T. Saleh, H. D. E. Fan, A. T. Koch, A. Nojeh, K. Takahata and **A. B. Suriani** (2016) "Study on micro-patterning process of vertically aligned carbon nanotubes (VACNTs)." **Fullerenes, Nanotubes and Carbon Nanostructures**, Taylor & Francis 24 88-99 (**Impact Factor 2015: 0.84**).
- [114] M. M. Yusoff, M. H. Mamat, M. F. Malek, **A. B. Suriani** et al. (2016) "Growth of titanium dioxide nanorod arrays through the aqueous chemical route under a novel and facile low-cost method". **Materials Letters**, Elsevier 164 294-298 (**Impact Factor 2015: 2.437**).
- [115] A. Kamari, S. N. M. Yusoff, W. P. Putra, C. F. Ishak, N. Hashim, A. Mohamed, I. M. Isa, **A. B. Suriani** (2015) "The effects of application of agricultural wastes to firing range soil on metal accumulation in *Ipomoea aquatica*

- and soil metal bioavailability." **Chemistry and Ecology**, Taylor & Francis 31 622–635 (**Impact Factor 2015: 1.281**).
- [116] A. Kamari, W. P. Putra, S. N. M. Yusoff, C. F. Ishak, N. Hashim, A. Mohamed, I. M. Isa, **A. B. Suriani** (2015) "Immobilisation of Cu, Pb and Zn in scrap metal yard soil using selected waste materials." **Bulletin of Environmental Contamination and Toxicology**, Springer 95 790-795 (**Impact Factor 2015: 1.191**).
- [117] S. N. A. M. Yazid, I. M. Isa, **A. B. Suriani** et al. (2015) "Facile, cost effective and green synthesis of graphene in alkaline aqueous solution." **International Journal of Electrochemical Science** 10 7977 - 7984 (**Impact Factor 2015: 1.692**).
- [118] I. M. Isa, M. R. Fasyir, N. Hashim, S. A. Ghani, **A. B. Suriani** et al. (2015) "A highly sensitive mercury(II) sensor using Zn/Al layered double hydroxide-3(4-hydroxyphenyl)propionate modified multi-walled carbon nanotube paste electrode." **International Journal of Electrochemical Science** 10 6227 - 6240 (**Impact Factor 2015: 1.692**).
- [119] A. Mohamed, T. Ardyani, **A. B. Suriani** et al. (2015) "Enhanced dispersion of multiwall carbon nanotubes in natural rubber latex nanocomposites by surfactants bearing phenyl groups." **Journal of Colloid and Interface Science**, Elsevier 455 179-187 (**Impact Factor 2015: 3.782**).
- [120] A. Mohamed, T. Ardyani, **A. B. Suriani** et al. (2016) "Effect of surfactant headgroup on low-fluorine-content CO₂-philic hybrid surfactants." **The Journal of Supercritical Fluids**, Elsevier 98 127-136 (**Impact Factor 2014: 2.579**).
- [121] M. F. Malek, M. H. Mamat, Z. Khusaimi, M. Z. Sahdan, M. Z. Musa, A. R. Zainun, **A. B. Suriani** et al. (2014) "Sonicated sol-gel preparation of nanoparticulate ZnO thin films with various deposition speeds: The highly preferred c-axis (002) orientation enhances the final properties." **Journal of Alloys and Compounds**, Elsevier 582 12-21 (**Impact Factor 2015: 3.014**).
- [122] M. F. Malek, M. H. Mamat, M. Z. Musa, Z. Khusaimi, M. Z. Sahdan, **A. B. Suriani** et al. (2014) "Thermal annealing-induced formation of ZnO nanoparticles: Minimum strain and stress ameliorate preferred c-axis orientation and crystal-growth properties." **Journal of Alloys and Compounds**, Elsevier 610 575-588 (**Impact Factor 2015: 3.014**).
- [123] S. N. A. M. Yazid, I. M. Isa, **A. B. Suriani** et al. (2014) "A review of glucose biosensors based on graphene/metal oxide nanomaterials." **Analytical Letters**, Taylor & Francis 47 (11) 1821-1834 (**Impact Factor 2015: 1.088**).
- [124] A. Mohamed, A. K. Anas, **A. B. Suriani** et al. (2014) "Preparation of multiwall carbon nanotubes (MWCNTs) stabilised by highly branched hydrocarbon surfactants and dispersed in natural rubber latex nanocomposites." **Colloid and Polymer Science**, 292 (11) 3013-3023 (**Impact Factor 2015: 1.890**).
- [125] N. Hashim, Z. Muda, M. Z. Hussein, I. M. Isa, A. Mohamed, A. Kamari, **A. B. Suriani** et al. (2016) "A brief review on recent graphene oxide-based material nanocomposites: Synthesis and applications." **J. Mater. Environ. Sci.** 7 (9) 3225-3243 (**Impact Factor 2015: 1.210**).
- [126] N. A. Asli, M. S. Shamsudin, **A. B. Suriani** et al. (2013) "Effect of the ratio of catalyst to carbon source on the growth of vertically aligned carbon nanotubes on nanostructured porous silicon templates." **International Journal of Industrial Chemistry**, Springer 4 (1) 1-7.
- [127] N. A. Asli, M. S. Shamsudin, A. N. Falina, M. S. Azmina, **A. B. Suriani** et al. (2013) "Field electron emission properties of vertically aligned carbon nanotubes deposited on a nanostructured porous silicon template: The hidden role of the hydrocarbon/catalyst ratio." **Microelectronic Engineering**, Elsevier 108 86-92 (**Impact Factor 2015: 1.277**).
- [128] M. S. Shamsudin, M. Maryam, S. A. M. Zobir, N. A. Asli, **A. B. Suriani** et al. (2013) "Synthesis and nucleation-growth mechanism of almost catalyst-free carbon nanotubes grown from Fe-filled sphere-like graphene-shell surface." **Journal of Nanostructure in Chemistry**, Springer 39 (1) 1-12.
- [129] M. H. Mamat, Z. Khusaimi, M. Z. Musa, **A. B. Suriani** et al. (2012) "Effects of aluminium doping and electrode distance on the performance of aligned zinc oxide nanorod array-based ultraviolet photoconductive sensors." **Japanese Journal of Applied Physics**, IOP Science 51 06FE04-1-06FE04-7 (**Impact Factor 2015: 1.122**).
- [130] M. Salina, R. Ahmad, **A. B. Suriani** et al. (2012) "Bandgap alteration of transparent zinc oxide thin film with mg dopant." **Transactions on Electrical and Electronic Materials** 13 64-68 (**Impact Factor 2015: 0.312**).
- [131] S. A. M. Zobir, **A. B. Suriani** et al. (2012), "Raman spectroscopic study of carbon nanotubes prepared using fe/zno-palm olein-chemical vapour deposition." **Journal of Nanomaterials** 2012 451473 (**Impact Factor 2015: 1.758**).
- [132] M. S. Shamsudin, M. F. Achoi, M. N. Asiah, L. N. Ismail, **A. B. Suriani** et al. (2012), "An investigation on the formation of carbon nanotubes by two-stage chemical vapor deposition." **Journal of Nanomaterials** 2012 972126 (**Impact Factor 2015: 1.758**).
- [133] M. Salina, M. H. Mamat, **A. B. Suriani** et al. (2011) "Highly conductive vertically aligned carbon nanotubes grown on Mg_{0.3}Zn_{0.7}O thin film template using thermal chemical vapour deposition method." **Japanese Journal of Applied Physics**, IOP Science 50 06GE02-1-06GE02-5 (**Impact Factor 2015: 1.122**).
- [134] A. A. Azira, **A. B. Suriani** et al. (2011) "Carbon Nanotubes Formation from Fe/Ni/Mg by Camphor Oil Decomposition," **Journal of the Ceramics Society of Japan** 119 125-128 (**Impact Factor 2015: 0.698**).
- [135] M. H. Mamat, Z. Khusaimi, M. Z. Musa, **A. B. Suriani** et al. (2011) "Controllable growth of vertically aligned aluminum doped zinc oxide nanorod arrays prepared using novel low temperature sonicated sol-gel immersion method at different precursor solution," **Japanese Journal of Applied Physics**, IOP Science 50 06GH04-1-06GH04-6 (**Impact Factor 2015: 1.122**).
- [136] A. A. Aziz, D. H. A. I. Hassim, **A. B. Suriani** et al. "Reinforcement of multiwalled carbon nanotubes/natural rubber nanocomposite prepared by latex technology (2012). **Journal of Science and Technology in the Tropics** 8 131-140.

Supervisions

Main Supervisor

PhD -Completed

- [1] Doctoral Degree, Nor Dalila Abdul Rahman, Synthesis of Aligned Carbon Nanotubes from Waste Chicken Fat using Thermal Chemical Vapor Deposition Method for Field Emission Devices, 2012/2015, **Completed**. - **Bitara, Best Thesis, and Graduate on Time (GOT) Awards during Convocation Ceremony**.
- [2] Doctoral Degree, Nurhafizah Binti Md Disa, Synthesis Graphene Oxide using Electrochemical Exfoliation Method for Electrode Materials Application, 2013/2016, **Completed**. **Bitara Awards during Convocation Ceremony**.
- [3] Doctoral Degree, Muqoyyanah, Fabrication of Graphene Oxide/Titanium Dioxide Hybrid Material for Solar Cell and Membrane Application. 2016/2019, **Distinction written in Academic Transcript, Bitara Awards and International Excellent Student Awards for PhD during Convocation Ceremony**.
- [4] Doctoral Degree, Khayri Zaid, Carbon Based Materials as Adsorbent in Water Pollution Management. 2016/2019, **Completed - International Student**.
- [5] Doctoral Degree, Al Masoodi Ali Abdul Ameer Mohammed, Fabrication of ZnO-Graphene Oxide Nanocomposites for Ultraviolet Light Fabrication of ZnO-Graphene Oxide Nanocomposites for Ultraviolet Light Sensor Application. 2017/2020, **Completed - International Student**.
- [6] Doctoral Degree, Norhafizah Jusoh, Development of Scaled-up Prototype of Oil-Based CNT Production (SUPER-CNT-PRO) System utilizing Domestic Vegetable Oil Sources as Carbon Feedstock, 2013/2016, **Completed**.

MSc-Completed

- [1] Masters Degree, Suhufa Alfarisa, Synthesis of Carbon Nanostructured Materials From Waste Engine Oil Using Thermal Chemical Vapor Deposition Method, 2013/2015, **Completed- International Student- GOT Award during Convocation Ceremony**.
- [2] Masters Degree, Rika Noor Safitri, Enhancement Of Field Electron Emission Properties Of Carbon Nanotubes/Zinc Oxide Nanocomposites Using Single And Multi-Step Methods, 2013/2015, **Completed- International Student- GOT Award during Convocation Ceremony**.
- [3] Masters Degree, Fatiatun, Synthesis and Characterization of Graphene/ZnO Nanocomposites and Their Potential Applications for Transparent Conductive Electrodes, 2016/2018, **Completed- International Student- GOT Award during Convocation Ceremony**.
- [4] Masters Degree, Nurfalina Binti Alias, Sintesis Nanotub Karbon daripada Minyak Masak Terpakai dan Sifat Pemancaran Elektron Medan, 2011/2015, **Completed**.
- [5] Masters Degree, Nur Azmina Binti Mohamed Safian, Optimization of Physical Properties of Carbon Nanotubes from Palm Oil Precursor using Thermal Chemical Vapor Deposition Method, 2011/2013, **Completed**.
- [6] Master Degree, Nur Jannah Binti Idris, Facile Preparation of Zinc Oxide Nanostructures-Reduced Graphene Oxide Nanocomposites for Efficient Ultraviolet Sensing Properties, 2018/2020, **Completed**.
- [7] Master Degree, Rosmanisah Binti Mohamat, Fabrication of Hydrophilic, Agglomerated-Free PVdF/Graphene Oxide Hybrid Membranes for Water Treatment Application, 2018/2020, **Completed**.

PhD - Ongoing

- [1] Doctoral Degree, Rosmanisah Binti Mohamat, Fabrication of Hydrophilic, Agglomerated-Free Polyethersulfone/Graphene Oxide/Titanium Dioxide Hybrid Membrane for Water Treatment Application, 2020/2023, **Ongoing**.

Co-Supervisor

PhD

- [1] Doctoral Degree (UiTM), Noor Asnida Binti Asli (UiTM), The Study of Growth Mechanism of Aligned Carbon Nanotubes on Porous Silicon Nanostructures, 2010/2012, **Completed**.
- [2] Doctoral Degree (UPSI), Siti Nur Akmar Mohd Yazid, Synthesis and Characterisation of Metal Oxide/ Graphene Nanocomposites for Glucose Sensor Applications, 2013/2016, **Completed**.
- [3] Doctoral Degree (UPSI), Tertya Ardyani, Graphene-Philic Surfactants for Latex Technology, 2015/2018, **Completed**.
- [4] Doctoral Degree (UiTM), Marmeezee Mohd Yusoff, Synthesis and Characterization of Graphene-doped TiO₂ for Ultraviolet Photoconductive Sensor Application, 2015/2018, **Completed**.
- [5] Doctoral Degree (USM), Muhammad Izhar Kairi, Synthesis of Large Area Graphene using Chemical Vapor Deposition, 2015/2018, **Completed**.

- [6] Doctoral Degree (UiTM), Ahmad Syakirin Bin Ismail @ Rosdi, Humidity Sensing Performance of Aligned Assembly Arrays of Zinc Oxide Nano Compositing Layers via Low Temperature Immersion Method 2016/2019, **Completed**.
- [7] Doctoral Degree (UPSI), Nur Amirah Binti Jamaluddin, Wastewater Treatment of Palm Oil Mill Effluent (POME) by Responsive Graphene with Magnetic Surfactants, 2017/2020, Ongoing.
- [8] Doctoral Degree (UTM), Nurul Jannah Ismail, Faculty of Chemical & Energy Engineering, 2018/2021, Ongoing.

MSc

- [1] Masters Degree (UPSI), Amira Shakila Binti Razali, Electrical and Structural Properties of Carbon Nanotube Effect on a Novel Calixarene Thin Films for Metal Cation Sensing.Composites, 2012/2014, **Completed**.
- [2] Masters Degree (UiTM), Muhammad Salleh Shamsudin, Preparation and Characterization of Carbon Nanotubes from Camphor Oil and Its Utilization in PMMA/CNT Nanocomposite, 2010/2012, **Completed**.
- [3] Masters Degree (UPSI), Nur Shazana Atiqa Mohd Zamri, Properties of Cellulose Composite Made of CNT and Oil Palm Empty Brunch Cellulose, 2012/2014, Ongoing.
- [4] Masters Degree (UPSI), Nor Izzati binti Mohd Ali, Development of Kenaf Nanocellulose Graphene Paper for Electrical Conductive Paper, 2012/2014, Ongoing.
- [5] Masters Degree (UPSI), Mohd Shali Muda, Synthesis, Characterization, and Application of Chitosan Functionalized Graphene Oxide Nanocomposites for Pesticide Formulations 2014/2016, Ongoing.
- [6] Masters Degree (UiTM), Shatini Md Said, Sensitivity Enhancement of Humidity Sensor on GO/SnO₂/ZnO Nanostructured Film Prepared using Thermal Chemical Vapor Deposition 2017/2019, Ongoing.
- [7] Masters Degree (UPM), Muhammad Amir Faiz Bin Mohd Shaifuddin, Metal Free Catalyst Carbon Nanotubes (CNTs) From Tea Waste Using CVD Method 2018/2020, Ongoing.

Awards

- [1] **National Finalist for Malaysia, the ASEAN-U.S. Science Prize for Women 2019.**
- [2] **Silver Medal- Virtual International Research & Innovation Symposium and Exposition, 2020 UTHM.**
- [3] **High Impact Article Journal Publication Award, Excellent Achievement Award 2019, UPSI.**
- [4] **High Impact Article Journal Publication Award, Excellent Achievement Award 2018, UPSI.**
- [5] **Highest Citation Award, Faculty of Science & Mathematics, UPSI, 2018.**
- [6] **Highest Scopus Article Journal Contributor Award, Faculty of Science & Mathematics, UPSI, 2018.**
- [7] **Highest International Grant Receiver Award, Faculty of Science & Mathematics, UPSI, 2018.**
- [8] **Excellent Service Award, UPSI, 2018.**
- [9] **Silver Medal, Materials Technology Challenges, (MTC 2019), Malaysian Solid State Science and Technology Society (MASS) and Universiti Putra Malaysia, March 2019.**
- [10] **Excellent Journal Publication Award, UPSI, April 2019.**
- [11] **Outstanding Scientist in Physics, Venus International Foundation, India, Aug 2018.**
- [12] **Silver Medal, MTE 2018, Feb 2018.**
- [13] **Silver Medal, Pecipta 2017, Oct 2017.**
- [14] **Runner-up Prize at Malaysia Toray Science Foundation, Science Education Award 2017, Dec 2017.**
- [15] **MASS 2016 Young Researcher Award in Solid State Science and Technology by MASS, Nov 2016.**
- [16] **Excellent Journal Publication Award, UPSI, Jun 2016.**
- [17] **Journal Article Publication Incentive, UPSI, Jun 2016.**
- [18] **Outstanding Contribution in Reviewing- Materials Letters, Elsevier, July 2015.**
- [19] **Outstanding Contribution in Reviewing- Materials & Design, Elsevier, July 2015.**
- [20] **L'Oreal-UNESCO National Fellowship 2013 for Young Women in Material Sciences Award.**
- [21] **Bronze Medal, Pecipta 2015, December 2015.**
- [22] **Silver and Bronze Medals, 26th International Invention, Innovation Technology Exhibition (ITEX 2015), May 2015.**
- [23] **Silver Medal, BioInnovation 2014, November 2014.**
- [24] **2 Silver Medals, 25th ITEX 2014, May 2014.**
- [25] **Promising Academician Award, UPSI, May 2014.**
- [26] **Best Poster Awards, NANO-SciTech2014, Mac 2014.**
- [27] **Gold Medal, Pecipta 2013, November 2013.**
- [28] **Excellent Service Award 2012, UPSI, April 2013.**
- [29] **Gold, Silver and Bronze Medals, Malaysia Technology Expo 2013 (MTE 2013), February 2013.**
- [30] **3 Best Poster Awards, NANO-SciTech2013, Mac 2013.**
- [31] **Article/Journal Publication Incentive Award, UPSI, Staff Excellence Award Ceremony 2013.**
- [32] **Gold Medal Incentive Award during 2013 National and International Research and Innovation Expo, UPSI, Staff Excellence Award Ceremony 2013.**
- [33] **Excellent Research Award, UiTM, May 2012.**
- [34] **The Best Award (cash worth RM1000) & 2 Gold Medals, MTE 2012, February 2012.**
- [35] **Best Poster Award, Advanced Materials Conference (AMC 2012), December 2012.**
- [36] **Malaysia Toray Science Foundation: Science Education Award 2013 and 2011 (Winner Prize- RM6k & RM2k).**
- [37] **Gold Medal, BioMalaysia 2011, November 2011.**
- [38] **Silver Medal, 39th Exhibition of Inventions Geneva, April 2011.**
- [39] **Outstanding Paper Award, ICAE 2011, Korea, November 2011.**

- [40] **Best Poster Award**, INSC 2011, July 2011.
- [41] **Silver Medal**, 21st ITEX 2010, Mei 2010.
- [42] **Bronze Medal** at MTE 2010, Februari 2010.
- [43] **Diamond Award: Special Award for Women Inventor (cash worth RM3000 & certificate)**, 7th Invention, Innovation and Design (IID) UiTM, Januari 2010.
- [44] **Diamond Award: Invention (Category: Student) (cash worth RM3000 & certificate)**, 7th IID UiTM, January 2010.
- [45] **Silver Medal** and **Best Poster Award**, 3rd International Conference on Functional Material and Devices, ICFMD 2010, Jun 2010.
- [46] **Gold Medal**, IID Special Edition (IIDSE), UiTM, October 2010.
- [47] **Best Presenter Award**, Kolokium Kebangsaan Pasca Siswazah Sains dan Matematik 2010, UPSI, December 2010.
- [48] **Silver Medal** and **Best Booth Award**, IID Faculty of Applied Sciences, UiTM, October 2009.
- [49] **Best Poster Award**, NANO-SciTech2008, November 2008.

Patents/Utility Innovations

- [1] Title: Method of Preparing Graphene and Graphene Based Nanocomposites Via Electrochemical Exfoliation, Filing No.: IP2016000616
- [2] Title: Vertically Aligned Carbon Nanotubes, Filing No. : UI2010004930
- [3] Title: A Method For Producing Vertically Aligned Carbon Nanotubes From Palm Oil, Filing No. : UI2010004929

Commercialization

**Patent Licensing (Filing No.: IP2016000616) - UPSI AND UGENT TECH SDN. BHD.
(Company No. MA651928-U)**

MOU/MOA

Collaborative R&D Agreement between Mimos Semiconductor Sdn Bhd and Universiti Pendidikan Sultan Idris (CRADA)
13 Oct 2017

Research Project-Grants

Principal Investigator (PI)

International and Private Grants

- [1] **TWAS-COMSTECH Research Grant Award**, Amount: RM38k, Duration: February 2017-February 2019-**Completed**.
- [2] **Kurita Water and Environment Foundation, Japan**, Amount: RM10,915.10 (JPY300,000), Duration: October 2017-October 2019-**Completed**.
- [3] **Kurita Water and Environment Foundation, Japan**, Amount: RM10,915.10 (JPY300,000), Duration: October 2015-October 2016-**Completed**.
- [4] **L'Oréal-UNESCO National Fellowship 2013 for Young Women in Material Sciences**, Amount: RM20k, Duration: Jan 2014-Dec 2015 - **Completed**.
- [5] **Malaysia Toray Science Foundation (MTSF)**, Amount: RM20k Duration: Dec 2012- Dec 2014 - **Completed**.
- [6] **MTSF**, Amount: RM10k, Duration: Oct 2010- Oct 2011 - **Completed**.
- [7] **Geran Pembangunan Modul Saintis Muslim**, Amount: RM 15,000.00, Duration: Feb 2021 - Dec 2022 – **Ongoing**
- [8] **Geran Penyelidikan Kolaborasi Internasional**, Amount: RM 10133.00, Duration: Dec 2021 – June 2023 - **Ongoing**

Ministry Grants - Completed

- [1] **Niche Research Grant Scheme (NRGS)**, Amount RM 5,000,000 Duration : 1 Jan 2014 - 24 Aug 2020-**Completed**.
- [2] **Insentif Geran Sanjungan Penyelidikan Kementerian Pendidikan Malaysia**, Amount: RM1k, Duration: Jan 2015.
- [3] **Prototype Research Grant Scheme (PRGS)**, Amount: RM174k, Duration: Oct 2013-April 2016 - **Completed**.
- [4] **Skim Geran Penyelidikan dan Inovasi MARA**, Amount: RM35k, Duration: Mac 2015-Feb 2016 - **Completed**.
- [5] **Research Acculturation Collaborative Effort Grant (RACE)**, Amount: RM50k, Duration: Dec 2012-June 2014 - **Completed**.

- [6] **Fundamental Research Grant Scheme (FRGS)**, Amount: RM102,080, Duration: Nov 2015- April 2018 - **Completed**.
- [7] **FRGS**, Amount: RM82k Duration: Oct 2010-Feb 2014 - **Completed**.
- [8] **University Research Grant (GPU)**, Amount: RM9400, Duration: Jan 2012 to Jan 2013 - **Completed**.

Ministry Grants- Ongoing

- [9] **Ministry of Science, Technology and Innovation (MOSTI) Science Fund**, Amount: 298750, Duration: Aug 2014-July 2017- **Final Report has been submitted, Awaiting for Completion Approval**.
- [10] **GERAN PENYELIDIKAN FUNDAMENTAL (FRGS) FASA 1/2020**, Amount: RM 128,867.00, Duration: November 2020 to October 2022. Ongoing.

Investigator

Completed

- [1] Kurita Water and Environment Foundation, Japan, Amount: RM10,915.10 (JPY300,000), Duration: October 2015-October 2016-Completed.
- [2] Skim Geran Penyelidikan dan Inovasi MARA, Amount: RM26k, Duration: Aug 2015-Jan 2017 – Completed.
- [3] FRGS, Amount: RM111,170 Duration: Dec 2014-Dec 2016 - Completed.
- [4] PRGS, Amount: RM150k, Duration: Jan 2012-April 2016 - Completed.
- [5] ERGS, Amount: RM150k Duration: June 2013-June 2016 - Completed.
- [6] FRGS, Amount: RM108k Duration: Aug 2011- Mac 2014 – Completed
- [7] ANGKASA Grant, Kementerian Sains Teknologi dan Inovasi, Amount: RM102,730, Duration: Aug 2012 to Aug 2015 - Completed.
- [8] RACE, Amount: RM48k, Duration: Dec 2012-Jan 2016 - Completed.
- [9] RAGS, Amount: RM72800 RM Duration: Jan 2013-Jan 2015 - Completed.
- [10] RAGS, Amount: RM65k RM Duration: Sept 2013-Sept 2015 - Completed.
- [11] FRGS, Amount: RM71,450 Duration: July 2011-June 2013 - Completed.
- [12] Islamic Educational, Scientific, and Cultural Organization (ISESCO) Amount: RM38831, Duration: Jan 2016-Jan 2018 – Completed
- [13] Kurita Water and Environment Foundation, Japan, Amount: RM11,893.00 (JPY300,000), Duration: October 2016-October 2017- Completed.
- [14] FRGS, Amount: RM143,600 Duration: Nov 2015-Nov 2018 - Completed.
- [15] FRGS, Amount: RM84,800 Duration: July 2014-Jan 2017 - Completed.
- [16] FRGS, Amount: RM93,200 Duration: Nov 2015-Oct 2017 – Completed.
- [17] RACE, Amount: RM49,900, Duration: Feb 2014-Feb 2017 - Completed.

Ongoing

- [1] FRGS, Amount: RM136,000 Duration: Jan 2019 to Dec 2020 -Ongoing.
- [2] GPU, Amount: RM20000, Duration: June 2018 to June 2019 – Ongoing.

Contribution to Society

International Journal Reviewer

- [1] ACS Applied Materials & Interfaces – Impact Factor (IF):6.723 - 2 Contribution in Reviewing.
- [2] Chemical Engineering Journal-Elsevier-IF: 5.310 - 2 Contributions in Reviewing.
- [3] ACS Sustainable Chemistry & Engineering– Impact Factor (IF): 5.267- 1 Contribution in Reviewing.
- [4] Journal of Cleaner Production- IF:4.959-1 Contributions in Reviewing.
- [5] Journal of Hazardous Materials-IF: 4.836 -1 Contribution in Reviewing.
- [6] Materials and Design-IF:3.997- 7 Contributions in Reviewing.
- [7] Organic Electronics-IF:3.471- 1 Contributions in Reviewing.
- [8] Applied Surface Science-Elsevier-IF: 3.150 -2 Contribution in Reviewing.
- [9] Journal Alloy and Compound-Elsevier-IF:3.014- 9 Contributions in Reviewing.
- [10] Materials Letters-Elsevier- IF: 2.489-35 Contributions in Reviewing.
- [11] Materials Science in Semiconductor Processing –IF: 2.264 -1 Contribution in Reviewing.
- [12] Journal of Nanomaterials-Hindawi-IF: 1.758-1 Contribution in Reviewing.
- [13] Vacuum- IF:1.558 - 2 Contributions in Reviewing.
- [14] Desalination and Water Treatment-Taylor and Francis –IF: 1.272-1 Contribution in Reviewing.

- [15] Journal of Taibah University Medical Sciences, Elsevier –IF:0.530-1 Contribution in Reviewing.
- [16] Journal of Nanoparticle Research-Springer –IF:2.184-1 Contribution in Reviewing.
- [17] Materials Research Innovations, Taylor & Francis -IF: 0.830 -1 Contribution in Reviewing.
- [18] Journal of Materials Research –Cambridge University Press -2 Contributions in Reviewing.
- [19] Cogent Chemistry-Taylor and Francis-1 Contribution in Reviewing.
- [20] Cogent Environmental Science-Taylor and Francis-1 Contribution in Reviewing.
- [21] Journal of Engineering-Hindawi-1 Contribution in Reviewing.
- [22] Advancement in Scientific and Engineering Research-Scienceweb Publishing (2014) -1 Contribution in Reviewing.
- [23] Advances in Materials Physics and Chemistry-Scientific Research-1 Contribution in Reviewing.
- [24] Pertanika Journal of Science & Technology, Scopus-1 Contribution in Reviewing.
- [25] Jurnal Sains dan Matematik, FSM, UPSI -1 Contribution in Reviewing.
- [26] Reviewer of new book proposal titled *Thermal Transport in Carbon-Based Nanomaterials* from Gang Zhang (Institute of High Performance Computing, A*STAR, Singapore) for Micro & Nano Technology Book Series, Elsevier (Remunerated USD100) - October 2015.
- [27] External Examiner, PhD Thesis, Bharathidasan University, India, 2017 (1 PhD Student).
- [28] External Examiner, PhD Thesis, Anna University Chennai, India, 2017 (2 PhD Students).
- [29] External Examiner, PhD Thesis, UiTM, Malaysia, 2018 (1 PhD Student).
- [30] External Examiner, PhD Thesis, UTM, Malaysia, 2017-2018 (2 PhD Students).
- [31] External Examiner, PhD Thesis, UTHM, Malaysia, 2019 (1 PhD student).
- [32] External Examiner, MEng Thesis, USM, 2016 (1 MSc Student).
- [33] External Examiner, MSc Thesis, UniMAP, 2017 (1 MSc Student).
- [34] External Examiner, MSc Thesis, UTM, 2015-2018 (6 MSc Students).
- [35] External Examiner, MEng Thesis, UTHM, 2015-2018 (3 MSc Student).
- [36] External Examiner, MSc Thesis, UPM, 2018 (1 MSc Student).
- [37] 2012 IEEE Symposium on Business, Engineering & Industrial Applications (ISBEIA 2012).
- [38] 2012 IEEE Colloquium on Humanities, Science and Engineering (CHUSER 2012).

Keynote and Invited Speaker

- [1] Keynote Speaker at International Conference on Research, Implementation and Education of Mathematics and Science (ICRIEMS) at the YOGYAKARTA, INDONESIA, 25/9-29/9/2020.
- [2] Keynote Speaker at MJIC 2020 at UiTM SHAH ALAM, MALAYSIA, 28 Feb-02 March 2020.
- [3] Keynote Speaker at UPIS 2018 and The 32nd National Seminar on Physics PSI Programme, Universitas Negeri Semarang, INDONESIA, 03-05 May 2018.
- [4] Keynote Speaker at International Conference on Engineering, Life Sciences and Social Science (ICEL3S 2018), Universiti Selangor (UNISEL), MALAYSIA, 09-10 Feb 2018.
- [5] Keynote Speaker at The 9th International Conference on Nanoscience and Nanotechnology 2018 (Nano-SciTech 2018), UiTM Malaysia, 26 Feb – 1 March 2018.
- [6] Keynote Speaker at International Conference on Engineering, Life Sciences and Social Science (ICEL3S 2018), UNISEL MALAYSIA, 9-10 Feb 2018.
- [7] Keynote Speaker at 13th National Seminar on Laboratory Technology (SKETMA 13), UPSI MALAYSIA, 21-23 Aug 2017.
- [8] Keynote Speaker at The 2nd Electronic and Green Materials International Conference 2016 (EGM 2016), Phuket, THAILAND, 1-2 May 2016.
- [9] Invited Speaker at International Conference on Nano for Energy and Water (NEW)-2017 and Indo-French Workshop on Water Networking, University of Petroleum and Energy Studies (UPES), Dehradun, INDIA, 22-24 Feb 2017.
- [10] Invited Speaker at 8th International Conference on Nanoscience and Nanotechnology (Nano-Scitech 2017), Institute of Business Excellence, UiTM Shah Alam, MALAYSIA, 24 – 27 February 2017
- [11] Invited Speaker at International Conference on Recent Advances in Material and Chemical Sciences (ICRAMCS-2015), Gandhigram Rural Institute, Gandhigram, Tamil Nadu, INDIA, 14-15 December 2015.
- [12] Invited Speaker at National Congress on Membrane Technology 2016 (NATCOM 2016), Johor, MALAYSIA, 24-25 August 2016.
- [13] Invited Speaker at 3rd Malaysia Graphene and Carbon Nanotubes Workshop on 19-20 Oct 2015, UTM, Kuala Lumpur, MALAYSIA.
- [14] Invited Speaker for International Conference on Nanoelectronic Technology Devices and Materials 2015 (IC-NET 2015), Shah Alam, Malaysia, 27 February-3 March 2015.
- [15] Invited Speaker for Graduate-on-Time (GOT) Workshop Targeting Postgraduate Students, Institute of Graduate Studies, UPSI, 2015.
- [16] Invited Speaker for GOT Workshop Targeting Postgraduate Students, Institute of Graduate Studies, UPSI, 2014.
- [17] Invited Speaker for the PL-Raman Workshop on the 27 - 28 November 2013 at Universiti Teknologi MARA (UiTM), Shah Alam, jointly organised together with ALV Technologies Sdn Bhd and University of Malaya (UM).
- [18] Invitation to deliver a motivational talk in conjunction with the "Kem Naungan Wahyu 2016" under Pusat Pengajian Ilmu Wahyu, Persatuan Huffaz, Melaka, 27 November 2016.

- [19] Invitation to deliver a motivational talk in conjunction with the "Kem Naungan Wahyu 2015" under Pusat Pengajian Ilmu Wahyu, Persatuan Huffaz, Melaka, 21-22 November 2015.
- [20] Invitation to deliver a motivational talk and share success stories/ experience inconjunction with school holiday programme (MAY 2015) organised by Pusat Pengajian Ilmu Wahyu, Persatuan Huffaz, Melaka, 30-31 May 2015.
- [21] Invitation to deliver a motivational talk and share success stories/ experience inconjunction with school holiday programme (MAY 2014) organised Pusat Pengajian Ilmu Wahyu, Persatuan Huffaz, Melaka, 31 May 2014.
- [22] Invitation to deliver a motivational talk in conjunction with school holiday programme (November 2014) organised by Pusat Pengajian Ilmu Wahyu, Persatuan Huffaz, Melaka, 22-23 Nov 2014.
- [23] Invitation to deliver a motivational talk in conjunction with the "Kem Naungan Wahyu 2013" under Pusat Pengajian Wahyu, Persatuan Huffaz, Melaka.
- [24] Invitation to present the latest research activities in conjunction with the Institute of Science (IOS), UiTM colloquium series 2012.
- [25] Invitation to deliver a motivational talk in conjunction with the "Kem Naungan Wahyu 2012" under Pusat Pengajian Wahyu, Persatuan Huffaz, Melaka.
- [26] Invitations to deliver talks on the meeting of Deputy Vice Chancellor and postgraduate (MSc, PhD) Students.

Appointments/Committee

- [1] Deputy Vice Chancellor (Research and Innovation), UPSI, 1 Feb 2019-1 Feb 2022.
- [2] Appointed as Deputy Chairman at Malaysia Higher Education Ministry from 05/09/2020 to March 2021
- [3] Appointed as Visiting Professor at UTHM from 01/10/2019 to 30/09/2021
- [4] Appointed as External Panel for UTHM's Academic Staff Promotion (Assoc. Prof.) -7 Apr 2020.
- [5] Appointed as Head of Cluster (Science & Innovation) The Centre for Women Advancement & Leadership CWAL, UNIKL on 17/01/2022
- [6] Appointed as Visiting Professor at Universitas Sebelas Maret, Indonesia September-October 2022.
- [7] Appointed as External Examiner for VK7 Application at UKM on 15/02/2022.
- [8] Appointed as Panelist for L'OREAL-UNESCO FOR WOMEN IN SCIENCE FORUM CALL FOR APPLICATIONS, 2022 on 28/04/2022.
- [9] Appointed as Head of Expert for Festival of Ideas 2021, MOHE on 19/08/2021.
- [10] Appointed as Preliminary Jury Panel for the L'Oréal-UNESCO For Women in Science Award 2020 by L'Oréal Malaysia, 9 – 30 September 2021.
- [11] Appointed as Sector Chairman (Tissue and Nanofibers Thin Film) for University of Technology Baghdad, Iraq on 24/06/2021.
- [12] Appointed as Chairman (Research Committee) for CAPEU on 05/02/2021.
- [13] Appointed as Publisher for CAPEU on 18/01/2021.
- [14] Appointed as External Examiner for VK7 Application at UTHM on 25/12/2020.
- [15] Appointment as an Advisory Editorial Board of Journal of Science and Technology at UTHM on 1/1/2021.
- [16] Appointed as speaker at Kegiatan Diskusi Publik, UNIVERSITAS ISLAM NEGERI WALISONGO SEMARANG, Indonesia on 9/6/2021.
- [17] Appointed as Referee for VK7 Application of PM Dr Melor Md Yunus of UKM, on 26/2/2021.
- [18] Appointed as Organizing Committee of IPCSM 2021, UPSI 07/08/2021.
- [19] Appointed as Visiting Professor at Universitas Negeri Yogyakarta from 9/11/2020 to 30/11/2020.
- [20] Appointed as Panelist webinar series for the topic on Models of International Collaborative Research in the New Normal, Philippine Normal Universiti 30/10/2020.
- [21] Appointed as Editor for Journal of Electrical & Electronic Systems Research (JEESR), UiTM from Dec 2019 to Nov 2022.
- [22] Appointed as Deputy Chairman at Malaysia Higher Education Ministry from 05/09/2020 to March 2021.
- [23] Appointed as Visiting Professor at UTHM from 01/10/2019 to 30/09/2021.
- [24] Appointed as Associate Member at Institute of Science UiTM Shah Alam from 01/02/2016 to 31/01/2019.
- [25] Appointed as UPSI's Senate Member, 9 Jan 2019 - 8 Jan 2022.
- [26] Appointed as External Panel for Unisel's Academic Staff Promotion (Assoc. Prof.) -26 Sept. 2014.
- [27] Appointed as Associate Member at Institute of Science UiTM Shah Alam from 01/02/2016 to 31/01/2019
- [28] Appointed as UPSI's Senate Member, 9 Jan 2019 - 8 Jan 2022.
- [29] Appointed as Preliminary Jury Panel for the L'Oréal-UNESCO For Women in Science Award 2018 by L'Oréal Malaysia, 6 June - 25 Oct 2018.
- [30] Appointed as Chairman for Workshop on Appraiser Preparation for Standard of Secondary School Curriculum Textbooks, Central Zone 2018, organised by Textbook Division of Ministry of Education Malaysia 24-26 Jan 2018.
- [31] Appointed As Member of The Evaluation Committee on Fundamental Research Funding of Higher Education Ministry, 10 Jan 2018.
- [32] Appointed as Deputy Chairman for selection panel of BEST JOURNAL AWARD CATEGORY during MAPIM-KPT AWARD 2017 organised by MAPIM (MALAYSIA SCHOLARLY PUBLISHING COUNCIL) and Ministry of Higher Education on 13 DEC 2017 - 30 APR 2018.
- [33] Appointed as Steering Committee for MALAYSIA SCHOLARLY PUBLISHING COUNCIL session of 2018/2019.
- [34] Appointed as Committee Member of Research, Publication, Consultation, Commercialization and Innovation Committee (MJ3PIU), UPSI, July 2018 onwards.

- [35] Appointed as Task Force member for UI Greenmetric World University Ranking, Universiti Pendidikan Sultan Idris, Sept 2018 - Sept 2020.
- [36] Appointed as Chief Panel for UPSI Academic Excellence Award 2017, Universiti Pendidikan Sultan Idris, 16 October 2018.
- [37] Appointed as Committee Member for 6th International Postgraduate Conference on Science and Mathematics 2018 (IPCSCM 2018) & International Conference on Education, Mathematics and Science 2018 (ICEMS 2018) 30 -31 October 2018.
- [38] Appointed as Advisory Committee for 2nd International Symposium on Advanced Materials and Nanotechnology 2018, UPM, MALAYSIA, 15-16 Aug 2018.
- [39] Appointed as Speaker for International Research Grant Workshop and Publication Talk, FSM UPSI, 17 April 2018
- [40] Appointed as Nanotechnology Panel for Workshop on Development of National Nanotechnology Laboratory by NATIONAL NANOTECHNOLOGY CENTRE, MOSTI on 26-28 NOV 2017.
- [41] Appointed as Preliminary Jury Panel for the L'Oréal-UNESCO For Women in Science Award 2017 by L'Oréal Malaysia, 6 June - 24 Oct 2017.
- [42] Appointed as Unpaid Consultant for Universiti Pendidikan Sultan Idris's Lecturers for International Postgraduate Conference on Science and Mathematics 2017 (IPCSCM 2017) & International Conference on Science, Technology, Engineering and Mathematics 2017 (ICSTEM2017) by Educational Planning and Research Division, Ministry of Education Malaysia 1 April -30 October 2017.
- [43] Director of UPSI PRESS, UPSI, 15 Aug 2017 - 1 Jan 2019.
- [44] Editorial Board for Cogent Physics, Taylor & Francis Group, Oxfordshire, UK, 15 March 2017 until present.
- [45] Chief Editor of EDUCATUM Journal of Science, Mathematics and Technology, UPSI, Feb 2016-Feb 2018.
- [46] Editorial Board for Composite Materials Science Publishing Group (SciencePG) 3 December 2016 until present.
- [47] Editorial Board Members for International Journal of Electrical & Electronic Systems Research (IEESR) (ISSN:1985-5389),
1 February 2017 until present.
- [48] Appointment as Nanotechnology Panel for Workshop on Development of National Nanotechnology Laboratory by NATIONAL NANOTECHNOLOGY CENTRE, MOSTI on 26-28 NOV 2017.
- [49] Appointment as Preliminary Jury Panel for the L'Oréal-UNESCO for Women in Science Award 2017 by L'Oréal Malaysia, 6 June - 24 Oct 2017.
- [50] Appointed as Deputy Chairman for selection panel of Best Journal Award Category during MAPIM-KPT Award 2017 organised by MAPIM (Malaysia Scholarly Publishing Council) and Ministry of Higher Education on 13 DEC 2017 - 30 APR 2018
- [51] Appointed as SECRETARIAT for UPSI's Journal Article Writing & Publishing Workshop, 16 NOV 2017
- [52] Appointed as Technical Manager in the Committee Member for ISO Certification of FESEM Laboratory, Faculty Science & Mathematics, UPSI, 04 Oct 2017 - 04 Oct 2019.
- [53] Appointed as Expert Panel for the Revisions of Degree Program - Bachelor Degree in Education (Physics) with Honours- 1 Oct 2017 - 30 Sept 2018.
- [54] Head of Department of Physics, Faculty of Science & Mathematics (FSM), UPSI, May 2013-May 2015.
- [55] Research Fellow-Nanotechnology Research Centre, FSM, UPSI.
- [56] Research Fellow-NANO-SCiTech Centre, Institute of Science, UiTM.
- [57] Invited speaker for Sharing Session Program "Tips to Get International and Industrial Grants : Toray and Kurita", at Faculty of Electrical Engineering UiTM Shah Alam, 5 Apr 2017.
- [58] Invited to give Consultation and Professional Advice for Fundamental Research Grant Scheme Application, Faculty of Engineering and Life Sciences, UNISEL, 18 Jan 2017.
- [59] Invitation as Speaker for FRGS Grant Workshop 2017 at Fakulti Seni Komputeran dan Industri Kreatif, UPSI, 19 Jan 2017.
- [60] Invitation as Speaker for Sharing Sessions for International Research Grant Application, Faculty of Science and Mathematics, UPSI, 22 Feb 2017.
- [61] Director- Community Service Program "A Day as a Junior Scientist" with Sekolah Rendah Integrasi Teras Islam, Slim River, Perak, 7 Sept. 2016, UPSI.
- [62] MOHE Grant Assessor Programme, AKEPT, MOHE, 19-20 Sept. 2016.
- [63] Panel Interviewer for University Lecturer (DS52) - 14 Aug 2014.
- [64] Panel Interviewer for Pure Science Scholarship Programme (MYBRAINSNC) 2016 Sponsorship of Ministry of Education Malaysia - 25-28 July 2016.
- [65] Invited Facilitator for Workshop on National Graphene Development Plan organised by National Nanotechnology Directorate (NND), MOSTI –Melaka-17-19 June 2014.
- [66] Represented UPSI during Workshop on National Nanocellulose Roadmap and Action Plan Development in conjunction with National Nano Programme 2016, NND, MOSTI -12 October 2016.
- [67] Represented UPSI in Nanocellulose Research Planning Workshop – Preparing Roadmap and Action Plan Development Phase by NND, MOSTI -24 November 2016
- [68] Invitation as Expert Consultant for Poster Presentation Judging Scheme in The International Conference on Life Sciences Revolution 2016 (ICLSR 2016)-Shah Alam- 29-30 November 2016.
- [69] Invited as Panel Judge during 2nd National Festival on Science, Technology & Innovation – Faculty of Applied Sciences UiTM, 14 Nov 2016.
- [70] Appointed as Judge for oral presentation session during National Congress on Membrane Technology Conference 2016 (NATCOM 2016) Johor, 24-25 August 2016.
- [71] Appointed as Advisory Committee for Master of Technology (Material Science) Program, Faculty of Science, Universiti Malaya, 16 June 2015.

- [72] Invited as participant for Workshop on Best Practice For Grant Assessor – Series 3, Ministry Of Higher Education, as preparation for the appointment as Grant Assessor Panel, AKEPT Bandar Enstek, Negeri Sembilan, 19-20 Sept 2016.
- [73] Scientific Committees- National Congress on Membrane Techology 2016 (NATCOM 2016) Johor, 24-25 August 2016.
- [74] Participant- 4th Malaysia 2D Materials and Carbon Nanotube Workshop (2DMC2016)-17-18 October 2016.
- [75] Participant- Seminar on Chemicals & Nanomaterials Management in Collaboration with OECD EHS & WPMN, 28-29 September 2016.
- [76] Participant- Workshop on Regulation and Safety of Nanotechnology, 5-6 October 2015.
- [77] Participant- Carbon Nanomaterials and Environmental Workshop, 10 October 2016.
- [78] Appointed as Committee Member for Pondok Pengajian Ilmu Wahyu, Merlimau, Melaka- 2 April 2015-2 April 2017.
- [79] Appointed as Committee Member for Pondok Pengajian Ilmu Wahyu, Merlimau Melaka- 1 April 2014- 1 April 2015.
- [80] Participated and demonstrated Science Project during Malaysia Toray Science Foundation Science Education Fair-Pusat Sains Negara, Kuala Lumpur- 30 Nov-1st Dec 2013.
- [81] Appointed as External Panel for Unisel's Academic Staff Promotion (Assoc. Prof.) -26 Sept. 2014.
- [82] Appointed as Committee Member for FSM's International Guest Lecture-3 Sept 2015.
- [83] Appointed as Committee Member for STEM Encouragement Program during the Profesor Turun Padang Carnival-14 Feb 2014.
- [84] Appointed as Assessor for Kursus Pensijilan PdP for New lecturer-22 Sept 2014.
- [85] Appointed as Expert Panel for New Degree Program - Bachelor Degree in Applied Physics with Education-12 July. 2016
- [86] Appointed as Expert Panel for New Degree Program - Bachelor Degree in Applied Physics with Education-12 Apr. 2016.
- [87] Appointed as Expert Panel for New Degree Program - Bachelor Degree in Applied Physics with Education-3 Oct. 2014.
- [88] Appointed as Consultant for International Postgraduate Conference on Science and Educatum (IPCSM'14)- 1 June 2014.
- [89] Appointed as Consultant for Perak Expo Young Scientist 2014 (PEYS 2014)-8 Oct 2014.
- [90] Appointed as Secretariat for Workshop on Teaching Aid Material preparation -20 Apr 2015.
- [91] Judge for Perak Expo Young Scientist 2014 (PEYS 2014)-8 Oct 2014.
- [92] Member- Research, Publication, Consultation and Commercialization Committee, FSM, 1 June 2016-31 May 2017.
- [93] Head- Research and Publication Management Committee, Physics Dept, FSM, UPSI -2012-until now.
- [94] Member-Curriculum Committee, Physics Dept, FSM, UPSI -2012-until now.
- [95] Member-Occupational Safety and Health Committee, Physics Dept, FSM, UPSI -2012-until now.
- [96] Member- Technical Committee: Procurement, Budget and Expenditure, Physics Dept, FSM, UPSI -2012-until now.
- [97] Chairperson - IC-NET 2015, Shah Alam, Malaysia.
- [98] Technical Committee of IC-NET 2015, Shah Alam, Malaysia.
- [99] Technical Committee of NANOSciTech2014 conference.
- [100] Chairperson - NANOSciTech2014, Shah Alam, Malaysia.
- [101] Judge for *Ekspo Penyelidikan dan Inovasi Dalam Pendidikan Antarabangsa*, UPSI, 2013.
- [102] UPSI and Faculty Internal Assessor for GPU, FRGS, MTSF Science & Technology Research Grant, 2013-2016.
- [103] Member of *Jawatankuasa Inovasi dan Pengkomersialan Universiti*, UPSI 2014.
- [104] Chairperson-APMAS2013, Antalya, Turkey
- [105] Chairperson - ISBEIA 2012, Bandung, Indonesia.
- [106] Chairperson - NANOSciTech2013, Shah Alam, Malaysia.
- [107] Technical Committee of NANOSciTech2013 conference.
- [108] Technical Committee of International Postgraduate Conference on Science and Mathematics 2013, UPSI.
- [109] Member - Institute Physics Malaysia.
- [110] Member – IEEE (Membership No.: 92333473)
- [111] Member - Institute of Physics (IOP) ((Membership No.: 80049257)
- [112] Member-The Malaysian Solid State Science and Technology Society MASS (Membership No.: 366)
- [113] Member-Malaysian Membrane Society.
- [114] Member- Asian Nanoscience and Nanotechnology Association.
- [115] Member- Analytical Science Association Malaysia.