



### **Curriculum Vitae**

**SAIFOLLAH BIN ABDULLAH  
PROFESSOR**

**PhD (Physic/Nanostructured Silicon), University of Malaya  
MSc (Materials Science), University of Malaya  
BSc.(Hons) Physics, University of Malaya  
Fellow, The Malaysian Solid-State Science and Technology Society (FMASS)  
Centre of Foundation Studies, Universiti Teknologi MARA,  
43800 Dengkil Campus, Selangor, Malaysia**

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+603 5543-5553  
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### **EDUCATION BACKGROUND**

**PhD Physics** (Nanostructured Silicon), 2004, University of Malaya, Malaysia.  
**MSc.** Physics (Materials Science) 1993, University of Malaya, Malaysia.  
**BSc.** Physic (Hons.) 1986, University of Malaya, Malaysia.

### **ADMINISTRATION POST**

1. Director, Centre of Foundation Studies, UiTM, 2018 – To date
2. Chairman of Foundation Studies Dean/Director Council, Malaysian Public University, 2020 – to date
3. Board of Director, University College Agrosience Malaysia (UCAM), 2008 – To date
4. Dean, Faculty of Applied Sciences, Universiti Teknologi MARA, 2007-2010
5. Director, Institute of Science, UiTM, 2007-2008
6. Head of Center for Nanoscience and Nanotechnology, 2004-2007

## **COMMITTEE**

### **International /National**

1. Expert Panel Committee; Grant Evaluation and Monitoring, Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC), Malaysia, 2019 - 2020
2. Expert Panel of S&T (Nanotechnology), Ministry of Science Technology and Innovation (MOSTI), Malaysia, 2013 – 2015
3. Expert Panel of S&T (Advanced Materials), Ministry of Science Technology and Innovation (MOSTI), Malaysia, 2013 – 2015
4. Expert Committee Panel: S&T Nanotechnology Cluster, Ministry of Science Technology and Innovation (MOSTI), Malaysia, 2012
5. Expert Committee Panel: S&T Materials Science Cluster, Ministry of Science Technology and Innovation (MOSTI), Malaysia, 2012
6. Expert Committee Panel: Industrial Cluster, Ministry of Science Technology and Innovation (MOSTI), Malaysia, 2012
7. Expert Committee Panel: Nanotechnology Cluster, Ministry of Science Technology and Innovation (MOSTI), Malaysia, 2011
8. Expert Committee Panel: Fundamental Research Scheme Grant (FRGS) policy cluster: Ministry of High education (MOHE), Malaysia, 2011
9. Committee of National Council of Professor (MPN), Cluster Industry and Innovation, 2010-present
10. Vice Chairman, Green Materials Chapter, Institute Materials Malaysia
11. Advisory Board of Institute Nanoelectronic, Universiti Malaysia Perlis, 2007-2009
12. International Advisory Committee for International symposium for Research Scholar (ISRS) ,2008, Indian Institute of Technology, Chennai, India, 2008
13. International Advisory for International Conference of Functional Materials and Devices, Malaysia, 2008
14. Deputy Chairman, International Conference on Nanoscience and Nanotechnology, Malaysia, 2008
15. Deputy Chairman for the International Plantation Industry Conference and Exhibition 2008, Malaysia.
16. Deputy Chairman of International Conference on Advancement Materials and Nanotechnology (ICAMN 2007), 2007
17. Chairman of International Workshop on Nanoscience and Nanotechnology 2006
18. Chairman of Regional Conference on Solid State and Technology 2005
19. Executive Committee (EXCO) Malaysian Association Solid State and Technology (MASS), Malaysia, 2004-2007
20. Fellow of Institute of Materials Malaysia (IMM), 2005-present
21. Executive Committee (EXCO) Institute of Material Malaysia (IMM), 2005-present
22. Member of Public Institution for Dean's Science Board, 2007-2010

## **EXPERT COMMITTEE**

1. Vice Chairman, Expert committee, EnsaiKlopedia nanoteknologi, Dewan Bahasa dan Pustaka, Malaysia, 2015-2020
2. Expert Panel of S&T (Nanotechnology), Ministry of Science Technology and Innovation (MOSTI), Malaysia, 2013 – 2015
3. Expert Panel of S&T (Advanced materials), Ministry of Science Technology and Innovation (MOSTI), Malaysia, 2013 – 2015
4. Evaluation Panel of Innovation Competition, Ministry of Higher Education, Ministry of Higher Education, 2012
5. Expert Committee Panel: S&T Nanotechnology Cluster, Ministry of Science Technology and Innovation (MOSTI), Malaysia, 2012
6. Expert Committee Panel: S&T Materials Science Cluster, Ministry of Science Technology and Innovation (MOSTI), Malaysia, 2012
7. Expert Committee Panel: Industrial Cluster, Ministry of Science Technology and Innovation (MOSTI), Malaysia, 2012
8. Expert Committee Panel: Nanotechnology Cluster, Ministry of Science Technology and Innovation (MOSTI), Malaysia, 2011
9. Evaluation Panel of FRGS-MPN (Fundamental Policy) research grant panel, Ministry of Higher Education, 2011
10. Evaluation Panel of Innovation Competition, Ministry of Higher Education, Ministry of Higher Education, 2011
11. Expert panel committee: Brain Gain Program, Akademi Sains Malaysia, 2008
12. Expert committee panel for FRGS (Fundamental Science) (University), 2005, 2009
13. Expert committee panel for Science Fund Grant, Grant (University) 2007
14. Expert Committee on Nanotechnology Malaysia, SIRIM-MOSTI, 2003-2004

## **MEMBERSHIP**

1. Council Member of Institute Materials of Malaysia (IMM), 2012-2014
2. Fellow of Malaysian Association Solid State and Technology (MASS), Malaysia
3. Council member of Malaysian Association Solid State and Technology (MASS), Malaysia, 2004-2008
4. Member of Institute of Nanotechnology (IoN), UK
5. Member of Materials Research Society of Singapore (MRSS)
6. Member of Institute Physics Malaysia (IFM)
7. Malaysia Nanotechnology Association (MNA)
8. Member of Electron Microscope Spectroscopy Malaysia (EMSM)
9. Member of Center for Nanoscience and Nanotechnology, UiTM

## **COMMUNITY CONTRIBUTION**

1. President, Teachers-Parents Society (PIBG), Primary School, Section 9, Shah Alam (High Performing School) – 2016/2017

2. President, Teachers-Parents Society (PIBG), Primary School, Section 9, Shah Alam (High Performing School) – 2015/2016
3. Chairman, Institute Materials Malaysia (IMM), Green Technology Chapter, 2015-2017
4. Chairman, Institute Materials Malaysia (IMM) Green Technology chapter, 2013-2015
5. Deputy Chairman, Institute Materials Malaysia (IMM) Green Technology chapter, 2012-2013
6. Vice President, Teachers-Parents Society (PIBG) , Primary School, Section 9, Shah Alam (High Performing School) 2014/2015
7. Committee Members of Teachers-Parents Society (PIBG) , Secondary School, Seksyen 9, Shah Alam 2014/2015
8. Vice President, Teachers-Parents Society (PIBG) , Primary School, Secksyen 9, Shah Alam 2(High Performing School) 013/2014
9. Committee Members of Teachers-Parents Society (PIBG), Shah Alam Parliamentary, 2014-2015
10. Vice President, Teachers-Parents Society (PIBG), Primary School, Secksyen 9, Shah Alam (High Performing School) 2012/2013
11. Deputy Chairman, Institute Materials Malaysia (IMM) Green Technology chapter, 2011-2012
12. Vice President, Teachers-Parents Society (PIBG), Primary School, Secksyen 9, Shah Alam (High Performing School) 2011/2012
13. Invited speaker” Menuju Kejayaan”, Sekolah Kebangsaan Parit Baharu, Sabak Bernam, Selangor, Februari 2011
14. Invited speaker” Azam dan Cita-cita”, Sekolah Kebangsaan Sg. Tengar, Sabak Bernam, Selangor, Januari 2011
15. Invited speaker” Nanoteknologi dan Masyarakat”, Sekolah Kebangsaan Seksyen 9, Shah Alam
16. Vice President, Teachers-Parents Society (PIBG), Primary School, Secksyen 9, Shah Alam (High Performing School) 2010/2011
17. Committee member, Teachers-Parents Society (PIBG), Primary School, Section 9, Shah Alam 2009/2010

### **RESEARCH INTERESTS**

1. Silicon Nanostructures
2. Carbon Nanotubes (CNTs)
3. Oxide Nanomaterials
4. Silicon Quantum Dots Nanoparticles (SQDNs) and nanowires.
5. Zeolite nano-porous
6. Herbal nanoparticles.
7. Nanocoating and
8. Graphene

## RESEARCH GRANT

1. Project (2019 -2021) Stable ion conduction mechanism of nanohybrid polymer electrolytes based on seaweed kappa-carrageenan (FRGS)
2. Project (2019 -2021) Enhancing light absorption from UV to Visible region for ZnO/Ni/Graphene ternary nanocomposites photocatalyst (FRGS)
3. Project (2019 -2021) Effect of ZnO Nanoparticles Coated Mango Fruit on Antifungal Activity of Colletotrium Gloesporiodes (FRGS).
4. Project (2019-2020) The Novelty of Graphene Synthesis Using Waste Water Cooking Palm Oil As Green Carbon Source For Humidity Sensors. (GIP)
5. Project (2018-2019) A Phytochemical Approach to Enhanced The Efficiency of Biosynthesized Silver Nanoparticles From Extraction of *Impretea Cylindrica* (DANAKEP).
6. Project (2018-2019) Highly Crystallined TiO<sub>2</sub> Nanoparticles Based Photocatalytic Devices: Detection and Purification of waste Water (Bestari Perdana)
7. Project (2016-2018) Preparation and Charcterization of Al-Nanostructured Coating on Mild Steel for Corrosion Protection (GIP)
8. Project (2015-2017) Synthesis of graphene from waste cooking oil (RAGS)
9. Project (2014-2015) Innovation in School: increasing rubber productivity (RISDA)
10. Project (2013-2016) Electrical Studies on Polymeric Nanofiber Network Composite Membrane Fuel Cells – New Class of Proton Exchange Membrane (FRGS)
11. Project (2013-2015) Effects of Aluminium Nanocoating on the corrosion behaviour of mild steel (FRGS)
12. Project (2012-2014) Nano particles modification of polyester gel-coat for anti-blistering features (RAGS)
13. Project (2012-2014) Determining the Acceptance Factors Towards Advance Technology Among University Students (RAGS)
14. Project (2011-2013) : Growth Mechanism of Self-organized TiO<sub>2</sub> Nanotube Formation (FRGS)
15. Project (2011-2012) Length Control of One-Dimensional TiO<sub>2</sub> nanotube formation by anodic oxidation (DANAKEP)
16. Project (2011-2012) The study of TiO<sub>2</sub> nanocoating process on glass and metal surface (DANAKEP)
17. Project (2010-2013) The Study of Growth Mechanism of Aligned Carbon Nanotubes (A-CNTs) on Porous Silicon Nanostructures (PSi) (DANAKEP)
18. Project (2010-2012) The Study of Quantum Optic Interaction Of Metals And Rare-Earth Doped On Porous Silicon (PSi) By Photoluminescence and Raman Spectroscopy (FRGS)
19. Project (2010-2012) The study of Blue Light Emission Mechanism from ZnO Nanorods Prepared on Nanostructured Porous Silicon Substrate (FRGS)
20. | Project (2008-2010) | The Production of CNTs for Commercialization (Sime Darby |

21.	Project (2007-2009)	Research Center Sdn. Bhd) The Study of Growth Mechanism of ZnO Nanowires (1-D) on Porous Silicon (FRGS)
22.	Project (2007-2009)	Development of New Bio-Material Based CNTs via Pyrolysis and its Applications in Electrochemical Systems (FRGS)
23.	Project (2006-2008)	The Application of Quantum confinement Theory an Luminescence Mechanism of nanostructured Porous Silicon-Academy of Science Malaysia (SAGA grant)
24.	Project (2006-2008)	Preparation and Characterizations and Applications of Silicon Quantum Dots Nanoparticles (SQDN)-MOSTI(Science fund)
25.	Project (2004-2005)	Erbium doped Porous Silicon Nanomaterials – University Grant
26.	Project ( 2004-2005)	Smart Card Security Sensor System Based on Porous Silicon Nanomaterials (PSN) - University Grant
27.	Top-Down Project (2003-2005)	Optical Planar Waveguide Technology–Ministry of Science, Technology and Innovation (MOSTI), National grant
28.	Project (1995-1997)	Fabrication and Characterization of Conducting Polymer based on Poly (Ethylene) Oxide - University Grant

### CONSULTANCY

1. Production of Food from Herbal using Nanotechnology: Perbadanan Kemajuan Pertanian Negeri Selangor. (PKPS): 2006-2008
2. Variant Photonic Devices Development Ministry of Defend, Malaysia, 2011-2013

### RESEARCH PATENT/COPYRIGHT

1. Zuraida Khusaimi, Suhaidah Amizam, Mohamad Hafiz Mamat, Saifollah Abdullah and Mohamad Rusop, “A Method for Synthesizing Nanostructures”, (2010) (Patent No. PI 2010003099)
2. Determining the acceptance factors Towards Advance Technology among University Students. (Copyright 2014)

### STUDENTS SUPERVISION

#### **PhD**

##### Graduated

1. **Azira Aziz:** CNTs Growth From Camphoric Carbon Sources using Transtion Metal Catalysts (2012)
2. **Suriani Abu Bakar:** Controlled Growth Vertically Aligned CNTs from Palm Oil Precursor using Thermal Chemical Vapour Deposirion Method and its Field Electron Emission properties (2012).
3. **Zuraidah Khusaimi :** Synthesis and Characterization of Low-Dimensional ZnO nanostructures by Solution - Immersion ans Mist-Atomisation (2012)
4. **Zainizan Saadan :** Process Optimization and Characterization of Nanostructured ZnO Thin Films for Solar Cell Applications. (2013)

5. **Noor Asnida Asli** : The Syntesis of Vertically Aligned CNTs on Nanostructured Porous Silicon Template by in-situ Catalyst Double Thermal Chemical Vapor Deposition Method. (2014)
6. **Mohd Husairi Fadhillah Suhaimi** : Fabrication and Verification of Porous Silicon Nanostructures/ZnO Nanostructures as a Capacitive Chemical Sensors by Electrochemical Impedance Method (2015)
7. **Amirah Amalina Ahmad Tarmizi**: The Effect of oxalic Acid as a Doping Agent on the Conductivity of Polyaniline (2017)
8. **Suzana Ratim**; Nanokomposit Hibrid epoksi Diperkukuh LENR Berpengisi Nanozarah Silikon Karbid dan Nanotiub Karbon (2018)
9. **Robaiah Hj. Mamat**; Synthesis of Multilayer Graphene using Waste Cooking Palm Oil (WCPO) by Double Thermal Chemical Vapor Deposition (DTCVD) Method for Humidity Sensor Application (2020)
10. **Asiah Md Noor**: Surfactant-free seed-mediated large-scale synthesis of mesoporous TiO<sub>2</sub> nanowires (2020)

#### On-going

1. **Nurul Hidah Sulimai** SYNTHESIS OF WELL-DISPERSED CALCIUM CARBONATE (CaCO<sub>3</sub>) NANOPARTICLES BY HYDROTHERMAL ASSISTED PRECIPITATION METHOD
2. **Mohd Faizal Md Nasir**: Synthesis and Characteristic of ZnO Nanostructure for photoelectrochemical water splitting.
3. **NURULHUDA BINTI ISMAIL**, BIOLOGICAL BASED CARBON NANOTUBES FOR CENTRAL NERVE SYSTEM DRUG DELIVERY
4. **ADLAN AKRAM BIN MOHAMAD MAZUKI**, HIGH ACCURACY OF X-RAY FLUORESCENCE USING ENHANCED INFLUENCE COEFFICIENT ALGORITHMS FOR GOLD PURITY ASSESSMENT
5. **NIK SYAZWANI BINTI NIK AHMAD**, NANO-ACTIVE PACKAGING MADE FROM LOW-DENSITY POLYETHYLENE (LDPE)/LEMONGRASS ESSENTIAL OIL (LgEO)/NANOCLAY (NC) TO ENHANCE THE SHELF-LIFE OF FRUITS.
6. **Zainab Razali**, Synergistic of *Ananas comosus* and *Garcinia mangostana* wastes extracts as green synthesized silver nanoparticle and their bioactivities mechanisms

#### **Master**

#### Graduated

1. **Hartinie Ahmad Rafaie**: Synthesis, Characterization and Growth Mechanism of ZnO Nano-flower by Thermal Chemical Vapor Deposition Method at Low Deposition Temperature
2. **Suhaidah Amizam**, Preparation and characterization of ZnO nanorods on porous silicon nanostructures using sol-gel immersion method
3. **Mohd Faizal Achoi**: The optimization and characterization of titanium dioxide nanostructures coated glass surface properties for self-cleaning and anti-bacterial applications
4. **Muhamad Zuhairi Borhan**: The effect of milling parameters on extraction yield of asiaticoside and asiatic acid from centella asiatica nanopowders
5. **Kevin Alvin Eswar**: Preparation, structural and temperature dependence of optical property of ZnO nanostructures on seeded porous silicon

6. **Zafirah Usaili** : Preparation and optimization of self-organized  $\text{TiO}_2$  nanotubes formation by anodic Oxidation
7. **Mohd Afif Safwan**: Preparation and Characterization of Multilayer Porous Silicon Nanostructure for Bragg Grating Waveguide.
8. **Syazwan Afif Mohd Zobir**: Raman Spectroscopic Study of Carbon Nanotubes Prepared Using Fe/ZnO-Palm Olein-Chemical Vapour Deposition.
9. **Muhammad Salleh Shamsudin**: Structural and thermal behaviors of iron-filled align carbon nanotubes formulated by two-stage catalytic chemical vapor deposition
10. **Hafsa bt. Omar**: The influence of  $\text{H}_2\text{O}_2$  concentration to the structure of silicon nanowire growth by metal-assisted chemical etching
11. **Azlinda Ab. Aziz**: Optical properties of nano-porous structure ZnO prepared by catalytic-immersion method
12. **Maryam Mohammad**: Characterization of carbon nanotubes prepared from palm oil by aerosol-assisted catalytic CVD method
13. **Nurul Fatahah Asyiqin Zainal** : Study on the effects of carbon nanotubes in pmma-based nanocomposite thin films
14. **Mohd Hafiz Mamat**: Properties of nano-structured zinc oxide thin films for ultraviolet photoconductive sensor applications
15. **Mohd Khairul Ahmad**: Study on the Various Sol-Gel Concentration to the Electrical, Structural and Optical Properties of the Nanostructured Titanium Dioxide Thin Films
16. **Zainurul Atikah Ab Kadir**: Preparation of  $\text{LaPO}_4$  with Different Morphologies and Fluorescence Properties by Sol-Gel Spin-Coating Method
17. **Nik Farhana Samsudin**: The Effects of Inoculum in Fermented Glutinous Rice for Nanotechnology Applications
18. **NurFarhana Rosman**: Synthesis and Characterization of Coated ZnO-Starch nanocomposite on Waterlily mango (*Mangifera indica*) to Inhibit Anthracnose Disease
19. **Tengku Ishak Tengku Kudin**: Electrochemical performance of anode material from palm oils derived carbon nanotubes for lithium ion batteries

#### On-going

1. Zahidah Othman

More than 170 undergraduate students completed since 2004

#### EXTERNAL AND INTERNAL EXAMINER

##### PhD

1. Mazdida Sulaiman (PhD), Development of Lithium And Magnesium Ion Conducting Composite Electrolytes, Universit of Malaya, 2013.
2. Reza Shabanniari, Growth and Characterization of vertically aligned ZnO nanorods synthesized by Chemical bath Deposition for UV Photodetector Applications.USM, 2013
3. Ahmad Nazib Alias, Computational and Characterization Studies of Non-Conjugated Poly(N-Vinylcabazole) Blended as Host Polymer for Phosphorescence Emission, UiTM, 2014
4. Mohsen H.S Ben Kara (PhD), Co-Planar Micriwave Integrated Circuit Transmission line Based on New carbon Nanomaterials, UiTM, 2015



5. Yasir Hussein Mohamed, VERY HIGH FREQUENCY PLASMA ENHANCED CHEMICAL VAPOR DEPOSITION ASSISTED OPTIMIZED GROWTH CHARACTERISTICS OF SILICON NANOWIRES, UTM, 2016
6. MUHAMMAD ARIF KHAN, SYNTHESIS OF CUO/ZNO HETEROSTRUCTURE NANOWIRES BY THERMAL EVAPORATION AND THEIR CHARACTERIZATION, UTM, 2016.
7. Ramazanali Dalvand, ZnO nanostructures Growth Using Electric Field Assisted Aqueous Solution Method and Their UV-Chemical Sensing Properties, USM, 2016
8. Nazli Ahmad Aini, Studies on Proton Exchange Membranes-Based SPEEK-Chitosan Crosslinked Via UV Curing Method, UiTM, 2017
9. AHMAD MOHAMMAD MUFLIH ALDIABAT, SYNTHESIS OF ZnS NANOSTRUCTURE USING CHEMICAL SPRAY PYROLYSIS TECHNIQUE FOR SENSING APPLICATION, USM 2018
10. Muhammad Aidil Ibrahim, STUDIES OF CHITOSAN THIONINE-GRAPHENE NANOCOMPOSITE AS ELECTRODE FOR GANODERMA DISEASE BIOSENSOR, UiTM, 2019.
11. A. Hamid, Novel Sonochemical Synthesis of ZnO Nanorods for Ultra-Violet Photodetection, USM, 2019
12. Mohd Iqbalidin Mohd Nayai, SYNTHESIS OF REDUCED GRAPHENE OXIDE FROM SUB-BITUMINOUS COAL USING ONE STEP PROCESSING. UiTM. 2020

### MSc

1. Nurul Akmal Binti Che Lah, Synthesis and characterization studies of silver nanoparticles, University of Malaya, 2010.
2. Nur Aliya Binti Hamizi, Synthesis and characterization of CdSe Quantum dots Using Inverse Micelle Technique, University of Malaya, 2011
3. Ng Meng Nee, Synthesis And Characterizations of Amorphous Carbon Nanotubes Silver Nanohybrids Via Temperature Chemicals Route, University of Malaya, 2011
4. Hoon Jian Wei, Magnetron Sputtered ZnO film, Malaysia Multimedia University, 2011
5. Tan Kim Han, Synthesis and Characterization of Amorphous Carbon Nanotubes /cadmium Selenide (CdSe) Quantum Dots Hybrid Materials, University of Malaya, 2012
6. Noorsaiyyidah Binti Darman Singho, Synthesis And Characterizations of Silver/Polymethylmethacrylate Nanocomposites Via In-Situ Technique, University of Malaya, 2013.
7. Ng Meng Nee, Synthesis And Characterizations of Amorphous Carbon nanotubes/Silver Nanoparticles Hybrids Materials, University of Malaya, 2013.
8. Lim Shyue Piin, Simulation Studies of Efficiency Enhancement of Epitaxial Thin Film Silicon Solar Cell by Plasmonic Nanostructures, USM, 2014
9. Norhidayatul Hikmee Binti Mahzan, Synthesis and Characterization of Nanocrystalline Silicon Thin Films on Teflon Substrates by RF Magnetron Sputtering, UiTM, 2014
10. Nazihah bt Jamaludin, THE STRUCTURAL AND ELECTRICAL PROPERTIES OF ZINC OXIDE NANOWIRES GROWN ON ZINC OXIDE SEED LAYER BY THERMAL EVAPORATION METHOD, UTM, 2015
11. Mohd Hannas bin Hosnon, Electrical Properties of Nanostructured Zinc Oxide Thin Films Deposited by Sol-Gel Spin Coating Method for MSM Gas Sensor Applications. UiTM, 2017
12. Siti Nur Atikah Binti Shamsuddin, Pertumbuhan Nanostruktur Gallium Nitrat (GaN) pada Silikon Berliang (PSi) menggunakan Teknik Elektrokimia, USM, 2017

13. Norhidayah binti Muhamad Ahyat, Synthesis and Characterization of Silver Nanoparticles Using Aquatic Extract Chitosan for the Development of Antimicrobial Agent, UMT, 2018
14. Nur Hasyimah Binti Hashim, Study of Metal Doped ZnO Thin Film as Thermal Interface for High Power LEDs Application, USM, 2018
15. SITI NURATIKAH BINTI SHAMSUDDIN, GROWTH AND CHARACTERIZATION OF GaN NANOSTRUCTURES ON POROUS SILICON BY ELECTROCHEMICAL TECHNIQUES, USM, 2019
16. Engku Safiah Engku Indong, Preparation and Characterization of Electrospun Sulfonated Poly(Ether Ketone) SPEEK Crosslinked Strontium as Proton Exchange Membrane, UiTM (2020)

### **EDITOR AND GUEST EDITOR**

1. Journal of Experimental and Theoretical Nanotechnology Specialized Research (JETNSR), International, Scopus Journal, 2017-2019. (International)
2. Journal Material Research Bulletin, 2016 (International)
3. Journal of Nano-Structures & Nano-Objects, 2016 (International)
4. Guest Editor, ICASIT Journal, 2015
5. Editor, International Journal of Nanoelectronics and Materials, 2014 (International)
6. Editor, Advanced Materials Research (AMR)- special issue IMTCE 2012
7. Review, Nanoscale Research Letters, SpringerOpen Journal, 2012
8. Reviewer, Advanced Materials Research (AMR), Materials Science and Engineering, Scientific.net., 2012
9. Guest Editor, Polymer letters, UK, 2010
10. Guest Editor, MAPIM, 2011
11. Chief Editor of Science Letter, UiTM, 2009-2010
12. Editor for Journal of Solid State Science and Technology Letters, MASS, Malaysia, 2009

### **TEACHING EXPERIENCE**

1. Statistical Physics – Degree Program
2. Nuclear and Particles Physics – Degree Program
3. Mechanics Physics – Degree Program
4. Introduction to Physics – Degree Program
5. Mechanic and Thermal Physics – Diploma Program
6. Electricity and Magnetism – Diploma Program
7. Physics I and Physics II – Pre-University Program
8. Physics – Pre-Diploma Program

## **AWARD AND RECOGNITION**

1. Shaping the Society with Innovative Research (SRIIC 2017) **Gold Medal**, Universiti Teknologi MARA, 2017  
THE NOVELTY OF WASTE COOKING PALM OIL AS GREEN CARBON SOURCE FOR GRAPHENE SYNTHESIS AND ITS TRANSPARENCY ABILITY
2. International Invention & Innovation Competition ( InIIC 1/2017), **Bronze Medal**, Kuala Lumpur. Al-Nanostructured Film Coating on Mild Steel Surface for Corrosion Protection.
3. Student Innovation and Design Competition (SIDC 2013) **Gold Medal**, Universiti Teknologi MARA, 2013  
The study of Self-Organized of TiO<sub>2</sub> nanotubes  
Saifollah Abdullah and Zafirah Usaili
4. Innovation, Invention and Design Expo 2013 9 IIDX-2013), **Silver Medal**, Universiti Teknologi MARA, 2013  
Fabrication and verification of Silicon Nanostructured/ZnO Nanostructures/CNT of Chemical Sensors.  
Saifollah Abdullah and Mohd Husairi Fadzilah.
5. Student Innovation and Design Competition (SIDC 2013) **Gold Medal**, Universiti Teknologi MARA, 2013  
Preparation and Characterization of ZnO nanorods on Seeded Porous Silicon  
Saifollah Abdullah and Kevin Alvin Eswar.
6. Malaysia Technology Expo (MTE 2008, **Bronze Medal**, Feb 2008, Malaysia  
**Luminescence from Nanostructured Silicon.**  
Saifollah Abdullah, Mohamad Rusop and Hartinie Ahmad Rafeaie
7. International Exposition of Research and Inventions of Higher Learning 2007 (PECIPTA 2007), **Bronze Medal** Award, 10-12 August 2007, Malaysia.  
***Nanostructured Porous Silicon: Luminescent From Silicon***  
Saifollah Abdullah, Mohamad Rusop and Hartinie Ahmad Rafeaie
8. Inventions, Innovations and Design (IID) 2007 **Gold Medal** Award 19-20 Jan 2007, IRDC, UiTM  
***Silicon Quantum Dots Nanoparticles (SQDNs): Luminescent Silicon Powder***  
Saifollah Abdullah, Mohamad Rusop Mahmood and Hartinie Ahmad Rafeaie
9. Inventions, Innovations and Design (IID) 2007 **Gold Medal** Award 19-20 Jan 2007, IRDC, UiTM  
***Malaysian Palm Oil: A Novel Renewable Biomass Precursor Materials on the Preparation of Carbon Nanotubes for Nanotechnology Applications***  
Mohamad Rusop Mahmood and Saifollah Abdullah

10. Inventions, Innovations and Design (IID) 2007 **Gold Medal** Award 19-20 Jan 2007, IRDC, UiTM  
*Carbon Burning System: A Cheap and Simple Method to Transform a Crystalline Camphoric Carbon to an Amorphous Carbon Shoot for Optoelectronic Device Application.*  
Mohamad Rusop Moahmod and Saifollah Abdullah
11. Inventions, Innovations and Design (IID) 2007 **Silver Medal** Award 19-20 Jan 2007, IRDC, UiTM  
*Nanostructured Porous Silicon: Luminescent From Silicon*  
Saifollah Abdullah, Mohamad Rusop Mahmood and Suhaidah Amizam
12. Inventions, Innovations and Design (IID) 2007 **Silver Medal** Award 19-20 Jan 2007, IRDC, UiTM  
*Environmental Friendly Nanotechnology: A Newly developed Nanodroplet and Pyrolysis Deposition(NPD) System using Renewable and Non-hazardous Liquid Precursor for Preparation of Nano-Materials.*  
Mohamad Rusop Mahmood and Saifollah Abdullah
13. Best Poster Award in The XXII Regional Conference on Solid State Science and Technology, 2005, Malaysia
14. Inventions, Innovations and Design (IID) 2008 **Gold Medal** Award Jan 2008, IRDC, UiTM  
**Porous Silicon Nanostructure: Template for Align CNTs Preparation**  
Saifollah Abdullah, M.Rusop et. al.
15. International Technology Expo 2008, **Bronze Medal**, Kuala Lumpur, 2008  
**Porous Silicon Nanostructure: Template for Align CNTs Preparation**  
Saifollah Abdullah, M.Rusop et. al.

### **HONORS AND AWARDS**

1. Research Fellow, The Malaysian Solid-State Science and Technology Society (FMASS), 2011
2. Excellence staff award for year 2019
3. Excellence staff award for year 2013
4. Excellence staff award for year 2004
5. Excellence staff award for year 2000

## **PRESENTATIONS AT SYMPOSIA/CONFERENCES**

### **Keynote/Invited Speaker**

1. International Conference on Research and Practices in Science, Technology and Social Sciences 2020 (ICRest 2020), Malaysia (2020).
2. International Workshop on Recent Trends in Nanotechnology, Centre of National Nanotechnology, Malaysia (2019)
3. Asian Conference of Science Technology and Innovation (Physics & Materials Symposium), Universiti Teknologi MARA, Malaysia (2019)
4. 5<sup>th</sup> International Conference Sustainable Agriculture, Food and Energy (SAFE, 2017), August 2017 (SAFE), 2017
5. Awareness Talk Programme on Nanotechnology 2017, UiTM- Nanomalaysia, 2017
6. Workshop on Nanomaterials Characterization Techniques: Fundamental and Application, Universiti of Malaya, 2015
7. NanoScitech and Nano-Electronic, March 2014
8. Workshop on Advanced Materials and 2011 (WAMN2011), UPM, Malaysia, 2011
9. S. Abdullah, Institute Materials Malaysia (IMM) Green Materials Seminar, 18 March 2011, Kuala Lumpur.
10. S. Abdullah, Nanomaterials: Future Building Materials and Safety, National Seminar on Material and Structural Integrity, Nuclear Malaysia, 3 Nov. 2010, Kuala Lumpur
11. S. Abdullah, Potential Research in Nanotechnology, Universiti Teknologi MARA, Sabah, Jun 2008
12. S. Abdullah, Multidisciplinary Research in Nanotechnology, Universiti Teknologi MARA, Trengganu, 2008
13. S. Abdullah, Nanotechnology Research in S&T and Social Science, Universiti Teknologi MARA, Sarawak, 2008
14. S. Abdullah, Future Research in Nanotechnology, Road Map on Research, Universiti Teknologi MARA, 2007
15. S. Abdullah and M.Rusop Preparation, Characterization and Applications of Nanostructured Silicon, International Workshop on Nanoscience and Nanotechnology ( Nano-SciTech 2006), 19-21 June 2006, Malaysia
16. S. Abdullah, Nanomaterials and Nanotechnology, Biotherapeutic and Healthcare Symposium, September 2004, Malaysia
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