



ACADEMIA INFO

Scopus ID :
36158772300
WoS ID :
L-3391-2013

AREAS OF EXPERTISE

Fizik

Nano Physics, Solid state physics, STEM educational kits (Solar edu kits)

SUPERVISION

PhD

Completed : 1
Ongoing : 1

Master

Completed : 4
Ongoing : 3

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Profesor Madya Dr. Faridah Lisa binti Supian

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Universiti Pendidikan Sultan Idris (UPSI)

BIOGRAPHY

A lecturer from the Faculty of Science and Mathematics, Universiti Pendidikan Sultan Idris, Tanjung Malim, Perak, Malaysia. Specializes in Nano Physics, Solid state physics, STEM educational kits (Solar edu kits).

ACADEMIC QUALIFICATION

- 2010 **Doktor Falsafah (Ph.D) (Fizik)**
University of Sheffield, UK
- 2006 **Sarjana (Fizik Keadaan Pepejal)**
Universiti Sains Malaysia
- 2004 **Sarjana Muda Sains Dengan kepujian (Sains)**
Universiti Kebangsaan Malaysia

RESEARCH

- 1 Electrical And Structural Properties Of Carbon Nanotube Effects On Novel Calixarene Thin Films For Metal Cation Sensing
2014 Leader Universiti Putra Malaysia
- 2 Development And Study Of Metal Ions Calixarenes Solid-State Using Langmuir And Langmuir-Blodgett (Lb) Films For Contamination Me
2011 Leader Kementerian Pengajian Tinggi
- 3 Surface Potential And Effective Dipole Moments Studies Of Novel Polysiloxanes Langmuir Thin Film For Detecting Solvent
2013 Leader Universiti Pendidikan Sultan Idris
- 4 Optimization Of Hybrid Semiconducting Polymers/Quantum Dots Composite Films For Photovoltaic Application
2011 Leader Universiti Pendidikan Sultan Idris
- 5 Drug Delivery Encapsulation: An Electrical, Langmuir And Optomechanics Investigation Of Calixarene-hosted PABA And Simulation Via DFT Molecular Modeling.
2020 Leader

RESEARCH

- 6 Development And Evaluation Of Solar Energy Project Module For Pre-university Programme Level And Its Impact On Students
 2018 Leader Universiti Pendidikan Sultan Idris
- 7 Hybrid Polymer/Semiconductor Nanoparticles For Solar Cells Application
 2012 Member Kementerian Sains Teknologi Dan Inovasi
- 8 Pembangunan Dan Keberkesanan Modul Eksperimen Dan Demonstrasi Fizik Berbantuan Telefon Pintar (MFBTP) Bagi Tajuk Daya Dan Gerakan Di UPSI
 2018 Member Universiti Pendidikan Sultan Idris
- 9 Study Of Nanoparticles Formation In Langmuir Blodgett Thin Films By Uv-Vis
 2011 Member Universiti Pendidikan Sultan Idris
- 10 Low-Frequency Electronic Noise (LFeN) Characterization For Quality And Reliability Evaluation Of Hybrid P3HT: CdS Nanocomposite Material Used In Photovoltaic Application
 2020 Member
- 11 Sistem Pengerian Suria Rumah Hijau Untuk Peningkatan Kualiti Herba Kering
 2018 Member Universiti Kebangsaan Malaysia
- 13 Photo-induced Interaction On Calixarene Thin Film Toward The Formation Of Supramolecular Assemblies By Laser Trapping Technique
 2017 Member Kementerian Pengajian Tinggi
- 14 Synthesis, Characterisation And Luminescence Properties Of Pb(II) And Hg(II) Complexes Of Chromone-based
 2016 Member Kementerian Pengajian Tinggi
- 15 Optical Manipulation Of A Single Chloroform Micro-droplet In Water For Sensing Applications
 2019 Member Universiti Pendidikan Sultan Idris

PUBLICATIONS

- 1 The Development and Usability of a Braggs Law Crystallography Model as a Teaching Aid in Solid State Physics Course among Undergraduate Students in Universiti Pendidikan Sultan Idris
 Pillar of Physics Education
 2021 Google Scholar Correspondence Author
- 2 Langmuir, Raman, and electrical properties comparison of calixarene and calixarene-rGO using Langmuir Blodgett (LB) technique
 Journal of Materials Science: Materials in Electronics
 2020 SCOPUS Correspondence Author

- 3 **Surface potential and temperature effect studies of homo- and copolysiloxanes through Langmuir Blodgett technique**
Defence S and T Technical Bulletin
2019 SCOPUS Correspondence Author
- 4 **Calix[4]Arene and Calix[8]Arene Langmuir Films: Surface Studies, Optical and Structural Characterizations**
International Journal of Innovative Technology and Exploring Engineering
2019 SCOPUS Correspondence Author
- 5 **Copolysiloxane solvent detector using langmuir-blodgett surface potential method**
International Journal of Nanoelectronics and Materials
2017 SCOPUS First Author
- 6 **Conductivity Comparison of Calix[8]arene-MWCNTs Through Spin Coating Technique**
Sains Malaysiana
2017 Web of Science First Author
- 7 **Elucidation Of Properties In Langmuir Monolayers And Langmuir - Blodgett (LB) Films Formed By Calix[6]arene**
Jurnal Fizik Malaysia
2017 Malaysian Citation Index First Author
- 8 **Copolysiloxane solvent detector using Langmuir-Blodgett surface potential method**
International Journal of Nanoelectronics and Materials
2016 SCOPUS First Author
- 9 **Enhanced Conductivity of Calix[8]arene Thin Films with MWCNTs through Spin Coating Deposition and Their Comparison.**
Sains Malaysiana
2016 Web of Science First Author
- 10 **Nanoscale Growth of CdS and PbS Semiconductor Within Calix[4]arene Langmuir- Blodgett LB Film For Ion Sensing Application**
Advanced Materials Research
2014 Excellent Research Australia (ERA) First Author
- 11 **Optical trapping of organic solvents in the form of microdroplets in water**
Chemical Physics Letters
2020 SCOPUS Co-Author
- 12 **A Review of Calixarene LangmuirBlodgett Thin Film Characteristics for Nanosensor Applications**
Defence S and T Technical Bulletin
2020 SCOPUS Co-Author
- 13 **Synthesis and characterization of chromone-based ligand and its fluorescence property towards Zn²⁺**
IOP Conference Series: Materials Science and Engineering
2018 SCOPUS Co-Author
- 14 **Ultrasensitive electrochemical detection of metal ions using dicarboethoxycalixarene-based sensor**
Journal of Electroanalytical Chemistry
2017 Excellent Research Australia (ERA) Co-Author

- 15 **The properties of carbon nanotube on novel calixarene thin film**
International Journal of Nanoelectronics and Materials
2015 SCOPUS Co-Author
- 16 **The Effect of Synthesis Temperature on the Growth of Carbon Nanotubes from Waste Chicken Fat Precursor**
Advanced Materials Research
2014 Excellent Research Australia (ERA) Co-Author
- 17 **Properties of a Novel Calix [4]-Lead(Pb) Films Using Langmuir-Blodgett(LB) Technique As Application of Ion Sensor**
Advanced Materials Research
2014 Excellent Research Australia (ERA) Co-Author

SUPERVISION

- 1 **Optical, Optomechanical And Density Functional Theory Modelling Investigation Of Calixarene Langmuir-blodgett Film For Drug Encapsulation**
2021 PHD National Supervisor
- 2 **Surface Pressure-area Isotherm, Optical And Electrical Properties Of P3HT/Nanoparticles Thin Films By Modified Langmuir-Blodgett Technique**
2017 PHD National Co-Supervisor
- 3 **Sensitivity Optimisation Of Hybrid Calixarene-Reduced Graphene Oxide Langmuir-Blodgett Thin Films Via Langmuir, Optical, Structural And Electrical Charaterisations**
2020 Master National Supervisor
- 4 **Pencirian Film Nipis Kaliksarina Didopkan Dengan Nanotub Karbon Untuk Pengesanan Ion CD2+**
2016 Master National Supervisor
- 5 **Fabrication Of Calixarene Films Using Langmuir And Langmuir-Blodgett (LB) Method For Heavy Metal Ion Sensing**
2014 Master National Supervisor
- 6 **Development And Evaluation Of Solar Energy STEM Module (SESTEM) Among Diploma Student In UPSI**
2021 Master National Supervisor
- 7 **Optical Trapping Of Organic Solvents In The Form Of Microdroplets In Water**
2020 Master National Co-Supervisor
- 8 **Optical Trapping And Manipulation Of Calixarene Molecules In Water**
2021 Master National Co-Supervisor
- 9 **Characterizing And Optimizing Electrical And Optical Properties Of Hybrid Calixarene-Gold Nano Particle Using Langmuir-Blodgett Method For Solar Cell Application**
2021 Master National Co-Supervisor

CONSULTATION / ADULATION

1	Reviewer for Sains Malaysiana Jurnal	2019	UKM, Bangi	Completed
2	Reviewer for Water, Air, & Soil Pollution Journal	2019	Springer	Completed
3	Reviewer for Sains Malaysiana Jurnal	2019	UKM, Bangi	Completed
4	Panel temuduga bagi Program Biasiswa KPT 2017	2017	Kementerian Pengajian Tinggi	Completed
5	Reviewer for Conference paper	2016	Universiti Pertahanan Nasional Malaysia (UPNM)	Completed
6	SECRETSRIAT PERSIDANGAN IPCSM"14	2015	UPSI	Completed
7	Pemeriksa luar Tesis PhD Norbaizura Nordin	2020	UKM, Bangi	Completed
8	Perunding untuk Pembangunan Modul Pendidikan Sains, Teknologi, Kejuruteraan, Dan Matematik (STEM)	2020	Kementerian Pendidikan Malaysia (KPM)	Completed
9	Panel Penilai geran Institut Pendidikan Guru Malaysia	2019	KPM	Completed
10	Pemeriksa luar Tesis PhD Adamu Ibrahim	2019	USM, Penang	Completed
11	Panel Penilai geran FRGS	2019	KPM	Completed
12	Pemeriksa luar Sarjana (Masters) UNIMAP	2018	UNIMAP	Completed
13	Panel penilai Geran FRGS Fasa 1 2018	2018	Kementerian Pendidikan Tinggi	Completed
14	Pemeriksa luar Master Sains Nor Hidayat Yusof	2017	UPM	Completed
15	Juri Pertandingan UPSI GOT TALENT	2017	UPSI	Completed

16	PENILAI PERMOHONAN PENGAMBILAN PELAJAR SARJANA SAINS FIZIK BAGI SEM 1 SESI 2013/2014	2013	FSM, UPSI	Completed
17	PEMERIKSA LUAR TESIS SISWAZAH IJAZAH SARJANA	2013	UPSI	Completed
18	PENILAI MODUL KURSUS MEKANIK SIFAT JIRIM DAN HABA	2013	PPL, UPSI	Completed
19	JK Pelaksana Semakan Semula Program Pengajian Siswazah	2020	UPSI	Completed
20	Pemeriksa dalaman Tesis Pascasiswazah	2019	UPSI	Completed
21	Penilai laporan akhir penyelidikan	2019	UPSI	Completed
22	Pengerusi pembentangan proposal pascasiswazah	2019	UPSI	Completed
23	Panel Penilai geran Rising Star 2019	2019	UPSI	Completed
24	Pemeriksa dalaman Tesis Pascasiswazah	2019	UPSI	Completed
25	Panel juri pertandingan inovasi pengajaran & pembelajaran Fakulti Pengurusan & Ekonomi (FPE)	2018	Fakulti Pengurusan & Ekonomi, UPSI	Completed
26	Pakar rujuk Semakan Semula AT12	2018	UPSI	Completed
27	Pengerusi JK VIVA Peringkat Sarjana	2017	UPSI	Completed
28	Panel Penilai Permohonan Skim Geran FRGS- MyGrants Fasa 2016	2016	UPSI	Completed
29	Penilai laporan akhir penyelidikan 2015-0047-102-01	2016	UPSI	Completed
30	Penilai laporan akhir penyelidikan 2013-0172-102-03	2016	UPSI	Completed
31	Panel pembangunan program baru ISMP Fizik Gunaan dgn Pendidikan	2016	UPSI	Completed
32	Penilai makalah jurnal (Anugerah Kecemerlangan Staf UPSI)	2016	UPSI	Completed

33	Pemeriksa Projek Penyelidikan IPS Mod C	2016	UPSI	Completed
34	Pemeriksa Dalam tesis PhD (UPSI)	2016	UPSI	Completed
35	Editorial Member for Journal of Educational Sciences, University of Riau, Indonesia	2022	University of Riau, Indonesia	In Progress
36	Pemeriksa luar berkumpulan USM	2020	USM	In Progress
37	Perunding/Konsultan Sistem Pengering Herba	2020	Kebun Bandar Proton City	In Progress
38	Panel penulis pembangunan modul amali fizik	2020	FSM	In Progress
39	Pemeriksa luar berkumpulan USM	2020	USM	In Progress
40	Pemeriksa luar Master Sains Fatin Adila Ismail	2018	UNIMAP	In Progress
41	PANEL PAKAR PENYELIDIKAN OLEH KUMPULAN PENYELIDIKAN BIDANG NANO KIMIA DAN BIOSENSOR	2017	UPM	In Progress
42	Penyelaras Program Diploma Sains Fakulti Sains Matematik	2019	UPSI	In Progress
43	Pakar Rujuk Pembangunan Program Baharu Jabatan Fizik "Ijazah Sarjana Muda Fizik Gunaan Dengan Pendidikan	2018	UPSI	In Progress
44	Pakar rujuk program Pra Diploma	2018	UPSI	In Progress
45	Pakar Rujuk Pembangunan Program Baharu Pascasiswazah	2018	UPSI	In Progress
46	Panel Penilai Proposal Geran Penyelidikan UPSI Sesi 2017/2018	2017	UPSI	In Progress
47	Pemeriksa dalam Master Sains M. Yunus Hamid	2017	UPSI	In Progress

AWARD / RECOGNITION



1 Sarjana Muda Pendidikan (FIZIK)

2019 University CiTel2019 Silver
