



ACADEMIA INFO

WoS ID :

G-4310-2013

Google Scholar :

Izan Roshawaty Mustapa

AREAS OF EXPERTISE

Fizik

Material Physics

SUPERVISION

PhD

Completed : 1

Ongoing : 2

Master

Completed : 5

Ongoing : 1

Scan here to see
my EXPERT@UPSI



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📍 Faculty Of Science And Mathematics
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 Material Physics.

ACADEMIC QUALIFICATION

- 2014 **IJAZAH DOKTOR FALSAFAH (Ph.D) (Applied Physics)**
Royal Melbourne Institute of Technology, Australia
- 2002 **Ijazah Sarjana Sains (Fizik Bahan) (Sains)**
Universiti Kebangsaan Malaysia
- 1999 **Ijazah Sarjana Muda (Fizik) (Sains)**
Universiti Kebangsaan Malaysia

RESEARCH

- Crystallization Kinetic Of Plasticized Biodegradable Polymer
- 1 Nanocomposites
2018 Leader Universiti Pendidikan Sultan Idris
- Cooling Crystallization Analysis Of Plasticized Biodegradable
- 2 Polymer Nanocomposites
2018 Leader Universiti Pendidikan Sultan Idris
- Korilasi Antara Parameter Struktur Dan Modulus Young Pelet Karbon
- 3 Daripada Bahan Lignoselulosa
2005 Leader Universiti Pendidikan Sultan Idris
- Analysis Of Bio-Inspired Fluidic Based Flow Sensor For High Robust
- 4 Performance Flow Sensing
2019 Member Kementerian Pengajian Tinggi
- Microrheological Study Of Nanocellulose Solution Using Optically
- 5 Trapped Single Microparticle
2018 Member Kementerian Pengajian Tinggi

RESEARCH

- 6 **Pembangunan Modul Pembelajaran Untuk Pelajar Pelbagai Kemampuan Bagi Topik Elektrik**
2012 Member Kementerian Pengajian Tinggi
- 7 **Planetary–Centrifugal Preparation Of High Filler Content Epoxy–Calcite/talc– Nanosilica Composites**
2017 Member Universiti Pendidikan Sultan Idris
- 8 **Resonance Tuning Of Electroacoustic Transductive Material Using Surface Modification Approach**
2017 Member Kementerian Pengajian Tinggi

PUBLICATIONS

- 1 **Thermomechanical Study and Thermal Behavior of Plasticized Poly(Lactic Acid) Nanocomposites**
Solid State Phenomena
2021 SCOPUS Correspondence Author
- 2 **Thermomechanical, Crystallization and Melting Behavior of Plasticized Poly (Lactic Acid) Nanocomposites**
Solid State Phenomena
2021 SCOPUS Correspondence Author
- 3 **Thermomechanical Study and Thermal Behavior of Plasticized Poly(Lactic Acid) Nanocomposites**
Solid State Phenomena
2020 SCOPUS Correspondence Author
- 4 **Thermomechanical, Crystallization and Melting Behavior of Plasticized Poly (Lactic Acid) Nanocomposites**
Solid State Phenomena
2020 SCOPUS Correspondence Author
- 5 **THE DEVELOPMENT AND PERCEPTION OF THE USE OF VIRTUAL REALITY LEARNING KITS FOR ELECTROMAGNETIC INDUCTION**
Pillar of Physics Education
2021 Google Scholar Correspondence Author
- 6 **Non-isothermal Crystallization Kinetics of Plasticized Poly(lactic–acid) Nanocomposites**
Journal of Advanced Research in Dynamical and Control Systems
2020 Academic Journal Correspondence Author
- 7 **Effects of Tributyl Citrate Plasticizer on Thermomechanical Attributes of Poly Lactic Acid**
Journal of Advanced Research in Fluid Mechanics and Thermal Sciences
2019 SCOPUS Correspondence Author
- 8 **Morphological structure and thermomechanical properties of hemp fibre reinforced poly(lactic acid) nanocomposites plasticized with tributyl citrate**
Materials Today
2018 SCOPUS First Author

- 9 **Crystallization Behaviour of Plasticized Poly(lactic acid)–Hemp Nanocomposites**
Polymer Research Journal
2016 Non Index First Author
- 10 **Improvement Thermomechanical Properties of Polylactic Acid via Titania Nanofillers Reinforcement**
Journal of Advanced Research in Fluid Mechanics and Thermal Sciences
2020 SCOPUS Correspondence Author
- 11 **Morphological structure and thermomechanical properties of hemp fibre reinforced poly(lactic acid) nanocomposites plasticized with tributyl citrate**
Materials Today
2016 SCOPUS First Author
- 12 **Morphological structure and thermomechanical properties of hemp fibre reinforced poly(lactic acid) nanocomposites plasticized with tributyl citrate**
Materials Today
2016 SCOPUS First Author
- 13 **Poly(lactic acid)–Hemp–Nanosilica Hybrid Composites: Thermomechanical, Thermal Behavior and Morphological Properties**
International Journal of Advances Sciences and Engineering Technology
2013 Non Index First Author
- 14 **Melting Behaviour and Dynamic Mechanical Properties of Poly (lactic acid)–Hemp–Nanosilica Composites**
Asian Transactions on Basic and Applied Sciences
2013 Non Index First Author
- 15 **Mechanical Properties of Self Reinforced Poly (lactic acid) Composites Prepared by Compression Moulding of Non–Woven Precursors**
World Journal of Engineering
2013 SCOPUS First Author
- 16 **The Effectiveness of a STEM–Based Physics Interactive Laboratory (I–LAB) Module for Form Four Physics Students**
Review of International Geographical Education
2021 SCOPUS Co–Author
- 17 **Thermomechanical Properties and Thermal Behavior of Poly(Lactic Acid) Composites Reinforced with TiO₂ Nanofiller**
Solid State Phenomena
2021 SCOPUS Co–Author
- 18 **Thermomechanical Properties and Thermal Behavior of Poly(Lactic Acid) Composites Reinforced with TiO₂ Nanofiller**
Solid State Phenomena
2020 SCOPUS Co–Author
- 19 **The Effectiveness of Form Four Stem–Based Physics Interactive Laboratory (I–Lab) By Employing Isman Instructional Design Model**
Turkish Online Journal of Educational Technology
2021 SCOPUS Co–Author

MICRORHEOLOGICAL MEASUREMENT OF MICROCRYSTALLINE CELLULOSE SOLUTION USING SINGLE PARTICLE TRACKING

20 Journal of Fundamental and Applied Sciences

2017 Google Scholar Co-Author

The Application Of The Fuzzy Delphi Technique On A Component Of Development Of Form Four STEM-Based Physics Interactive Laboratory (ILab)

21 International Journal of Scientific and Technology Research

2019 SCOPUS Co-Author

Depth-Dependent Optical Stiffness Toward Water-Air Interface

22 International Journal of Engineering and Technology (UAE)

2018 SCOPUS Co-Author

SUPERVISION

- 1 Thermomechanical, Thermal Properties And Structural Morphology Of Poly (Lactic Acid) Reinforced With Titanium Oxide Nanofiler
2020 PHD International Supervisor Completed
- 2 Pembangunan Modul Makmal Interaktif (i-Lab) Fizik Tingkatan Empat Berteraskan STEM Dan Keberkesannya Terhadap Pencapaian, Kemahiran Menyelesaikan Masalah Dan Perbezaan Gaya Kognitif
2022 PHD National Co-Supervisor Waiting for Viva
- 3 Optical Manipulation Of A Nematic Liquid Crystal Microdroplei (NLCM) For Actuating And Sensing Applications In Water
2022 PHD National Co-Supervisor Presentation
- 4 KEBERKESANAN STRATEGI PEER TUTORING DALAM MENINGKATKAN PENCAPAIAN PELAJAR TERHADAP KONSEP DAYA, MOMENTUM DAN IMPULS DALAM KALANGAN TINGKATAN 4
2016 Master National Supervisor Completed
- 5 Reinforcement Of Plasticized Poly (lactic Acid) With Titanium Dioxide Nanofiller
2021 Master National Supervisor Completed
- 6 TAHAP MINAT DAN FAKTOR YANG MEMPENGARUHI MINAT TERHADAP PEMBELAJARAN FIZIK DALAM KALANGAN PELAJAR TINGKATAN EMPAT
2017 Master National Supervisor Completed
- 7 Keberkesanan Aplikasi Tracker Terhadap Pencapaian Pelajar Bagi Topik Graf Gerakan
2018 Master National Supervisor Completed
- 8 Pembangunan Dan Kebolegunaan Modul Interaktif Nearpod Bagi Topik Elektrik Dalam Fizik Tingkatan 5
2022 Master National Supervisor In Progress
- 9 The Determination Of An Effective Radius Of An Optically Trapped Polystyrene Microbead Near A Water-Air Interface
2019 Master National Co-Supervisor Completed

CONSULTATION

1	Polymer Composites Article Journal Reviewer	2020	Polymer Composites Journal	Completed
2	Solid State Phenomena Article Journal Reviewer	2020	Solid State Phenomena	Completed
3	IIUM Engineering Journal Article Journal Reviewer	2020	IIUM Engineering Journal	Completed
4	Article Reviewer	2019	UTHM	Completed
5	External Examiner	2018	Nottingham University Malaysia	Completed
6	Article Reviewer	2018	Journal of Polymer Engineering	Completed
7	JK Pengubalan Program Diploma Pendidikan Profesional (DPP), FSM	2021	FSM	Completed
8	Pemeriksa Dalam Disertasi Siswazah Ijazah Sarjana	2020	FSM, UPSI	Completed
9	Panel Semakan Semula Program Ijazah Sarjana Muda Pendidikan (Fizik) dengan kepujian (AT12)	2020	FSM, UPSI	Completed
10	Penilai Laporan Akhir Geran Penyelidikan	2019	FSM, UPSI	Completed
11	Penilai Dalam Manuskrip "Exploring Physics in Daily Life: Mechanics and Matter"	2019	PKM, UPSI	Completed
12	Penilai Permohonan Geran Penyelidikan Khas Universiti Berteraskan Pendidikan 2018	2018	FSM	Completed
13	Pemeriksa Kertas Projek Penyelidikan Pelajar Pascasiswazah	2017	UPSI	Completed
14	Penilai "Research Proposal for Doctor of Philosophy"	2017	FSM	Completed
15	Panel Temuduga	2017	BSM, UPSI	Completed
16	Penilai Permohonan Geran Penyelidikan Universiti Fasa 2/2016	2016	FSM, UPSI	Completed



17	Penilai proposal bagi permohonan kemasukan program pengajian siswazah SEM 1 2016/2017	2016	FSM, UPSI	Completed
18	Penilai Proposal bagi permohonan kemasukan program pengajian siswazah SEM 1 SESI 2016/1017	2016	FSM, UPSI	Completed
19	Panel Pembangunan Program Baharu Bagi Program Ijazah Sarjana Muda, Jabatan Fizik, FSM	2016	FSM, UPSI	In Progress
20	EDITOR JOURNAL SCIENCE & MATHEMATICS LETTERS (JSML)	2022	FSM	In Progress
21	Editor Journal Science and Mathematics Letters (JSML)	2020	FSM, UPSI	In Progress
22	EDITOR JOURNAL SCIENCE & MATHEMATICS LETTERS (JSML)	2020	FSM, UPSI	In Progress
23	Panel Pembangunan Program Baharu Pascasiswazah	2017	UPSI	In Progress
24	Penilai Manuskrip	2017	FSM, UPSI	In Progress
25	Panel Semakan Semula Program Pascasiswazah	2016	FSM, UPSI2015	In Progress



AWARD / RECOGNITION

- 1 Anugerah Pingat Perak dalam Ekspo Penyelidikan & Inovasi, UPSI 2007

2007 University Pusat Pengurusan Penyelidikan, UPSI Silver

- 2 Anugerah Perkhidmatan Cemerlang 2017

2018 University Universiti Pendidikan Sultan Idris
