

Profile Image

## DR. FADZIDAH BINTI MOHD IDRIS

PENSYARAH UNIVERSITI DS13

### CONTACT

Phone: 067980133

E-mail:

fadzidahmohdidris@usim.edu

Faculty: Kolej Permata  
Insan

### SUPERVISION

PhD - Completed: 0, Ongoing: 1

Master - Completed: 0, Ongoing: 1

## AREAS OF EXPERTISE

Nano Structured Materials

Magnetic Material Physics

Polymer-based Composites

## ACADEMIC QUALIFICATION

PhD in Nanoteknologi (2017)

Master in Bahan Dan Teknologi Nano (2013)

Bachelor in Sains Bahan (2010)

## RESEARCH

### 1. GIFT TO GIVE: EXPLORING GIFTED STUDENTS AS TRENDSETTERS TO INTENSIFY STEM LEARNING THROUGH ADDITIVE MANUFACTURING TECHNOLOGY

2024

GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ)

ON GOING

CO-RESEARCHER

### 2. INVESTIGATING THE DE-AND-RE-POLYMERIZATION ON CHAIN EXTENSION OF RECYCLED PET FOR HIGH PERFORMANCE 3D PRINTING MATERIAL

2024

GERAN KPT

ON GOING

CO-RESEARCHER

### 3. BANANA-PEEL-DERIVED ACTIVATED CARBON AS SUSTAINABLE ELECTRODE MATERIALS FOR ELECTRO-CHEMICAL CAPACITORS

2023

GERAN PENYELIDIKAN USIM

ON GOING

CO-RESEARCHER

### 4. PEMBANGUNAN MODEL KURIKULUM PENDIDIKAN PINTAR BERBAKAT INTEGRASI ILMU NAQLI AQLI (IGED)

2021

GERAN PENYELIDIKAN KHAS

ON GOING

CO-RESEARCHER

### 5. DEVELOPING AN INTERVENTION MODEL FOR PATIENTS WITH DYSARTHRIA TO RECITE AL-QURAN"

2021

GERAN KPT

ON GOING

CO-RESEARCHER

# RESEARCH

---

## 6. ELECTROMAGNETIC WAVE ABSORPTION MECHANISM OF HYBRID NANO-COMPOSITE-3D

2020 GERAN KPT COMPLETED MAIN RESEARCHER

## 7. LOW COST 3D PRINTED HONEYCOMB-TERMINALIA CATAPPA FRUIT SHELLS COMPOSITES AS AN ABSORBING MATERIALS IN REDUCING ELECTROMAGNETIC INTERFERENCE POLLUTION

2020 GERAN PENYELIDIKAN USIM RACER COMPLETED MAIN RESEARCHER

## 8. TOUCH AND MEMORIZE: INAUGURATION OF ROSARY-LIKE 3D PRINTED BRAILLE QURAN FOR VISUALLY IMPAIRED CHILDREN

2019 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

## 9. USIMAKERS (INDUSTRY4WRD - INDUSTRY@UNIVERSITY)

2019 PROJEK REVOLUSI INDUSTRI 4.0 COMPLETED CO-RESEARCHER

## 10. BIODEGRADATION PATHWAY OF NEW EMERGING POLLUTANTS BY NEWLY ISOLATED FUNGI

2018 GERAN PENYELIDIKAN HEADSTART PROGRAM COMPLETED CO-RESEARCHER

## 11. USING AL-QURAN AND GAME KIT FOR ENTHUSIASTIC AND INTERACTIVE LEARNING IN ADDITIONAL MATHEMATICS CLASSROOM

2018 GERAN PENYELIDIKAN HEADSTART PROGRAM COMPLETED CO-RESEARCHER

## 12. ADOPTING GAMIFICATION IN DELIVERING CRYPTOGRAPHY CONCEPT & IMAGING A TOUCHABLE 3D HOLOGRAPHIC DISPLAY FOR AUGMENTED REALITY: A PRACTICAL APPROACH FOR INTERACTIVE LEARNING

2018 GERAN PENYELIDIKAN HEADSTART PROGRAM COMPLETED CO-RESEARCHER

# PUBLICATION

---

## 1. MATERIALS? PROPERTIES OF LIGHTWEIGHT SPIRAL HYBRID CNT/EPOXY COMPOSITES ENHANCED REFLECTION LOSS

JOURNAL OF ADVANCED RESEARCH IN APPLIED MECHANICS

2024 JOURNAL SCOPUS CORRESPONDING AUTHOR

## 2. PENTAKSIRAN PENDIDIKAN PINTAR DAN BERBAKAT INTEGRASI NAQLI DAN AQLI (IGED)

INTERNATIONAL JOURNAL OF EDUCATION, PSYCHOLOGY AND COUNSELING

2024 JOURNAL INDEXED IN MYCITE (<10 YEARS) MAIN AUTHOR

## 3. SYNTHESIZED HYBRID CNT POLYMER COMPOSITE IN REDUCING EMI POLLUTION AT GIGAHERTZ FREQUENCY RANGE

SEMARAK INTERNATIONAL JOURNAL OF NANOTECHNOLOGY

2024 JOURNAL MYCITE CORRESPONDING AUTHOR

## 4. A CASE STUDY: THE SECONDARY STUDENTS OVERALL SATISFACTION ON ONLINE LEARNING

INDONESIAN JOURNAL OF INFORMATION SYSTEMS (IJIS)

2024 JOURNAL OTHER DATABASE MAIN AUTHOR

## 5. FABRICATION AND CHARACTERIZATION OF NANOCOILS CNT/PLA FILAMENT AT DIFFERENT FILLER'S PERCENTAGES AS ELECTROMAGNETIC WAVE ABSORBERS

JOURNAL OF ADVANCED RESEARCH IN MICRO AND NANO ENGINEERING

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 6. COMPUTATIONAL SIMULATION AND EXPERIMENTAL ANALYSIS OF ACTIVATED CARBON FROM AGRICULTURAL WASTE AS ELECTROMAGNETIC ABSORBER

JOURNAL OF ADVANCED RESEARCH IN APPLIED MECHANICS

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 7. CRAFTING MATHEMATICAL MINDS BY ENGAGING BRAILLE-TANGIBLE 3IN1 3D PRINTED GEOBOARDS MODULE FOR VISUALLY IMPAIRED CHILDREN

SEMARAK INTERNATIONAL JOURNAL OF FUNDAMENTAL AND APPLIED MATHEMATICS

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 8. INTEGRATING SENSORY-BASED ACTIVITY MODULES TO ENHANCE TACTILE SENSITIVITY IN BRAILLE LEARNERS: A COMPARATIVE STUDY

ESTEEM JOURNAL OF SOCIAL SCIENCES AND HUMANITIES

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 9. THE INTERSECTION OF TECHNOLOGY AND EDUCATION: DEVELOPMENT OF DIGITAL GAMING FOR ENHANCED ADDITIONAL MATHEMATICS

INTERNATIONAL JOURNAL OF MODERN EDUCATION (IJMOE)

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 10. EXPLORING LEARNING GAPS IN THE FUNCTIONS SUBTOPIC: A STUDY OF FORM 4 KSSM ADDITIONAL MATHEMATICS PRETEST RESULTS OF SECONDARY SCHOOL STUDENTS

SEMARAK INTERNATIONAL JOURNAL OF STEM EDUCATION (SIJSTE)

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 11. ELECTROMAGNETIC WAVE EMISSION PROFILES: A STUDY OF EVERYDAY ELECTRONIC DEVICES

5TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE & INNOVATION

2024 PROCEEDING OTHER DATABASE CORRESPONDING AUTHOR

## 12. 3D PRINTING ACTIVITY FOR YOUNG INNOVATORS

2024 BOOK EDITOR

## 13. TRANSFORMING ENVIRONMENTAL EXPLORATION INTO 3D OBJECTS AND UNLOCKING THE WISDOM OF AL-QURAN KNOWLEDGE

3D PRINTING ACTIVITY FOR YOUNG INNOVATORS

2024 CHAPTER IN BOOK MAIN AUTHOR

# PUBLICATION

---

## 14. EMBARKING ON THE 3D MODELLING JOURNEY: CREATING MY FIRST DESIGN

3D PRINTING ACTIVITY FOR YOUNG INNOVATORS

2024 CHAPTER IN BOOK MAIN AUTHOR

## 15. INNOVATION UNVEILED: PRESENTING MY INVENTIVE MODEL IN THE PROJECT REPORT

3D PRINTING ACTIVITY FOR YOUNG INNOVATORS: DESIGN IT! CREATE IT! INNOVATE IT!

2024 CHAPTER IN BOOK MAIN AUTHOR

## 16. IMPAK PENTAKSIRAN PENDIDIKAN PINTAR DAN BERBAKAT INTEGRASI NAQLI DAN AQLI (IGED)

INNOVATIVE TEACHING AND LEARNING JOURNAL (ITLJ)

2023 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 17. PENGGUNAAN PENGIMEJAN RESONANS MAGNETIK(MRI) SEBAGAI INTERVENSI ALTERNATIF KEPADA MEREKA YANG MEMPUNYAI MASALAH DYSARTHRIA UNTUK MEMBACA AL-QURAN

QALAM INTERNATIONAL JOURNAL OF ISLAMIC AND HUMANITIES RESEARCH (E-ISSN 2773-6334)

2023 JOURNAL OTHER DATABASE MAIN AUTHOR

## 18. FABRICATION AND CHARACTERIZATION OF NANOCOILS CNT/PLA FILAMENT AT DIFFERENT FILLER'S PERCENTAGES AS ELECTROMAGNETIC WAVE

4TH INTERNATIONAL RESEARCH CONFERENCE ON APPLIED SCIENCES AND ENGINEERING TECHNOLOGY 2023

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 19. MATERIALS' PROPERTIES OF LIGHTWEIGHT SPIRAL HYBRID CNT/EPOXY COMPOSITES ENHANCED REFLECTION LOSS

2ND WORLD ENGINEERING, SCIENCE AND TECHNOLOGY CONFERENCE 2023

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 20. GAME-BASED LEARNING: THE EDUCATIONAL BOARD GAME TREND

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE

2023 PROCEEDING NON-INDEX CO-AUTHOR

## 21. ASSESSING STUDENT AWARENESS OF CYBERSECURITY: A MINI SURVEY

4TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2023 (IJURECON 2023)

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 22. VISUAL AND KINESTHETICS LEARNING ADOPTING STUDENT AS TRENDSETTER VIA 3D PRINTING KITS TO ENHANCE UNDERSTANDING OF PHYSICS THEOREM

ASEAN JOURNAL OF ENGINEERING AND TECHNOLOGY

2022 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 23. THE ESSENCE OF PRACTICING 3D PRINTED MODELS THROUGH GAME-BASED MODULE IN LEARNING BRAILLE QURAN CODE AMONG THE BEGINNERS

INTERNATIONAL JOURNAL OF ACADEMIC RESEARCH IN PROGRESSIVE EDUCATION AND DEVELOPMENT

2022 JOURNAL INDEXED BY ERA CORRESPONDING AUTHOR

## 24. MATERIALS' CHARACTERIZATION AND PROPERTIES OF MULTIWALLED CARBON NANOTUBES FROM INDUSTRIAL WASTE AS ELECTROMAGNETIC WAVE ABSORBER

JOURNAL OF NANOPARTICLE RESEARCH

2022 JOURNAL INDEXED BY ERA MAIN AUTHOR

## 25. ELECTROMAGNETIC WAVE REDUCTION OF MULTIWALLED CARBON NANOTUBES (MWCNT) MIXED NANOMETER COFE<sub>2</sub>O<sub>4</sub> AT HIGHER FREQUENCY RANGE

MATERIALS TODAY: PROCEEDINGS

2022 JOURNAL INDEXED BY SCOPUS AND ERA MAIN AUTHOR

## 26. ELECTROMAGNETIC WAVE ABSORPTION PERFORMANCE OF CARBON NANOCOILS BY USING MIXED FERRITES AS CATALYST

ERZINCAN UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY

2022 JOURNAL OTHER DATABASE MAIN AUTHOR

# PUBLICATION

---

## 27. MUSLIM GIFTED AND TALENTED CURRICULUM: A DESIGN OF FRAMEWORK

INTERNATIONAL JOURNAL OF ACADEMIC RESEARCH IN PROGRESSIVE EDUCATION AND DEVELOPMENT

2022 JOURNAL INDEXED BY ERA CORRESPONDING AUTHOR

## 28. REVIEW OF METHOD FOR ENERGY HARVESTING FROM NATURAL SOURCES

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2022

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 29. THE POTENTIAL OF NANOTECHNOLOGY IN FABRICATING THE SHARPEST SWORD IN WORLD HISTORY ? A REVIEW

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2022

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 30. ELECTROMAGNETIC WAVE ABSORPTION PERFORMANCE OF CARBON NANOCOILS BY USING MIXED FERRITES AS CATALYST

4TH INTERNATIONAL CONFERENCE ON ADVANCED ENGINEERING TECHNOLOGIES

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 31. ELECTROMAGNETIC WAVE REDUCTION OF MULTIWALLED CARBON NANOTUBES MIXED NANOMETER COFE<sub>2</sub>O<sub>4</sub> AT HIGHER FREQUENCY RANGE

THE INTERNATIONAL SYMPOSIUM ON POLYMERIC MATERIALS 2022

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 32. GAME-BASED LEARNING APPROACH IN UNDERSTANDING PHYSICS CONCEPT VIA MINECRAFT

INTERNATIONAL COMPETITION AND EXHIBITION ON COMPUTING INNOVATION (ICE-CINNO) 2022

2022 PROCEEDING NON-INDEX CO-AUTHOR

## 33. MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), TAHAP 1 ALI

2022 BOOK EDITOR

## 34. PHYCISC (CONCEPTUALIZATION ENRICHMENT, UNDERSTANDING ENRICHMENT)

MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), TAHAP 1 ALI

2022 CHAPTER IN BOOK MAIN AUTHOR

## 35. PHYSICS (CONCEPTUALIZATION ENRICHMENT, UNDERSTANDING ENRICHMENT)

MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), TAHAP 2

2022 CHAPTER IN BOOK MAIN AUTHOR

## 36. PHYSICS (WAVES)

MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), TAHAP 2 HAMZAH

2022 CHAPTER IN BOOK MAIN AUTHOR

## 37. POLISI AKADEMIK KOLEJ GENIUS INSAN 2022

2022 POLICY

## 38. EFFECT OF MICROSTRUCTURAL EVOLUTION FROM NANO TO MICRON GRAIN SIZE REGIME TOWARDS STRUCTURAL, MAGNETIC, ELECTRICAL AND MICROWAVE PROPERTIES OF GADOLINIUM IRON GARNET (GD<sub>3</sub>FE<sub>5</sub>O<sub>12</sub>)

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS

2021 JOURNAL INDEXED BY ERA MAIN AUTHOR / CONTACT PERSON IN USIM

## 39. ENHANCING MICROWAVE ABSORBING PROPERTIES OF NICKEL-ZINC-FERRITE WITH MULTI-WALLED CARBON NANOTUBES (MWCNT) LOADING AT HIGHER GIGAHERTZ FREQUENCY

MALAYSIAN JOURNAL OF SCIENCE, HEALTH & TECHNOLOGY

2021 JOURNAL MYCITE MAIN AUTHOR / CONTACT PERSON IN USIM

# PUBLICATION

---

## 40. AN EVALUATION OF STUDENT'S PERCEPTION TOWARDS LEARNING PHYSICS AT LOWER SECONDARY SCHOOL

JURNAL PENDIDIKAN SAINS DAN MATEMATIK MALAYSIA

2021 JOURNAL MYCITE CORRESPONDING AUTHOR

## 41. MULTIPLE REFLECTIONS OF SPIRAL AND SPRING PASTA-LIKE CARBON NANOCOILS IN ABSORBING THE EMI WAVE

THE 4TH INTERNATIONAL MALAYSIA-INDONESIA-THAILAND SYMPOSIUM ON INNOVATION AND CREATIVITY, 2021

2021 PROCEEDING NON-INDEX MAIN AUTHOR

## 42. LOW-COST AS-SYNTHESIZED CARBON NANOTUBES AS POTENTIAL ELECTROMAGNETIC ABSORBING MATERIALS

INTERNATIONAL MULTIDISCIPLINARY INNOVATION COMPETITION

2021 PROCEEDING NON-INDEX MAIN AUTHOR

## 43. THE GIFTED STUDENT PERFORMANCE IN LEARNING PYTHON PROGRAMMING: A CASE STUDY

INTERNATIONAL VIRTUAL CONFERENCE ON LIBERAL STUDIES 2021

2021 PROCEEDING NON-INDEX CO-AUTHOR

## 44. THE STUDY ON AWARENESS OF KOLEJ GENIUS INSAN STUDENTS ABOUT EDUCATIONAL APPS USED IN TEACHING AND LEARNING

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE

2021 PROCEEDING NON-INDEX CO-AUTHOR

## 45. ELECTROMAGNETIC WAVE ABSORBING PERFORMANCE OF ACTIVATED CARBON BASED AGRICULTURAL WASTE - A REVIEW

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 46. RECENT DEVELOPMENT OF HYALURONIC ACID BASED HOLLOW MICRONEEDLE FOR TRANSDERMAL DRUG DELIVERY - A REVIEW

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 47. SILICA BASED SAND AS POTENTIAL FILLER MATERIAL IN REDUCING ELECTROMAGNETIC INTERFERENCE POLLUTION

INTERNATIONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 48. FABRICATION OF A-SYNTHESIZED CARBON NANO FIBERS/3D PRINTED HONEYCOMB STRUCTURE AS ELECTROMAGNETIC WAVE ABSORBER

INTERNATIONAL MULTIDISCIPLINARY INNOVATION COMPETITION

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 49. MATERIALS' CHARACTERIZATION OF ELECTROMAGNETIC WAVE ABSORBER IN REDUCING THE ELECTROMAGNETIC INTERFERENCE POLLUTION- A REVIEW

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 50. ELECTROMAGNETIC AND MORPHOLOGICAL CHARACTERIZATION OF AN ACTIVATED CARBON TERMINALIA CATAPPA/3D PRINTED AS AN INEXPENSIVE ELECTROMAGNETIC WAVE ABSORBING MATERIALS

INTERNATIONAL MULTIDISCIPLINARY INNOVATION COMPETITION

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 51. USING NLP TECHNIQUES TO IDENTIFY STUDENT'S LEARNING STYLE BASED ON VAK LEARNING METHOD

ACTIVE LEARNING IN EDUCATION 4.0 STUDENTS AS OWNERS OF LEARNING

2021 CHAPTER IN BOOK MAIN AUTHOR

## 52. FUN LEARNING ACTIVITY WITH 3D PRINTING KIT AS ATTRACTIVE APPROACHES FOR EMPHASIZING PHYSICS INTEREST

ACTIVE LEARNING IN EDUCATION 4.0 STUDENTS AS OWNERS OF LEARNING

2021 CHAPTER IN BOOK CO-AUTHOR

# PUBLICATION

---

## 53. ACTIVE LEARNING IN EDUCATION 4.0 STUDENTS AS OWNERS OF LEARNING

ACTIVE LEARNING IN EDUCATION 4.0 STUDENTS AS OWNERS OF LEARNING

2021 CHAPTER IN BOOK EDITOR

## 54. ELECTROMAGNETIC WAVE ABSORBING CHARACTERISTICS OF C/CO-MN AND C/CO-ZN DOPED BARIUM HEXAFERRITE SANDWICHED NANOCOMPOSITES

INTERNATIONAL JOURNAL OF NANOTECHNOLOGY

2020 JOURNAL INDEXED BY ERA MAIN AUTHOR / CONTACT PERSON IN USIM

## 55. A STUDY ON MICROWAVE ABSORPTION PROPERTIES OF CARBON BLACK AND Ni<sub>0.6</sub>Zn<sub>0.4</sub>Fe<sub>2</sub>O<sub>4</sub> NANOCOMPOSITES BY TUNING THE MATCHING-ABSORBING LAYER STRUCTURES

SCIENTIFIC REPORTS

2020 JOURNAL INDEXED BY ERA CO-AUTHOR

## 56. COMPARATIVE STUDY OF SINGLE- AND DOUBLE-LAYER BaFe<sub>12</sub>O<sub>19</sub>-GRAPHITE NANOCOMPOSITES FOR ELECTROMAGNETIC WAVE ABSORBER APPLICATIONS

MATERIALS RESEARCH BULLETIN

2020 JOURNAL INDEXED BY ERA CO-AUTHOR

## 57. INVESTIGATION WITH GIFTED STUDENTS IN LEARNING PHYSICS CONCEPT BASED ON COGNITIVE STRUCTURE

JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE

2020 JOURNAL SCOPUS MAIN AUTHOR

## 58. INFLUENCE OF DIFFERENT BFO FILLER CONTENT ON MICROWAVE ABSORPTION PERFORMANCES IN BiFeO<sub>3</sub>/EPOXY RESIN COMPOSITES.

CERAMICS INTERNATIONAL

2020 JOURNAL INDEXED BY ERA CO-AUTHOR

## 59. ENHANCING MICROWAVE ABSORBING PROPERTIES OF NICKEL-ZINC FERRITE WITH MULTIWALLED CARBON NANOTUBES (MWCNT) LOADING AT HIGHER GIGAHERTZ FREQUENCY

POSTGRADUATE SEMINAR FACULTY SCIENCE AND TECHNOLOGY

2020 PROCEEDING NON-INDEX MAIN AUTHOR

## 60. LOW-COST 3D PRINTED-TERMINALIA CATAPPA FRUIT SHELLS COMPOSITES AS POTENTIAL ELECTROMAGNETIC ABSORBING MATERIALS

INTERNATIONAL INNOVATION COMPETITION (INNOCOM) 2020

2020 PROCEEDING NON-INDEX MAIN AUTHOR

## 61. THE ELECTROMAGNETIC WAVE ABSORBING PERFORMANCE OF LOWCOST AGRICULTURAL WASTE/EPOXY-3D PRINTED HONEYCOMB STRUCTURE AT HIGHER GIGAHERTZ FREQUENCY RANGE

POSTGRADUATE SEMINAR FACULTY OF SCIENCE AND TECHNOLOGY

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 62. FABRICATION AND CHARACTERIZATION OF LOW-COST RAW COCONUT HUSK AND ACTIVATED CARBON COCONUT HUSK/EPOXY-3D PRINTED HONEYCOMB STRUCTURE AS AN ELECTROMAGNETIC WAVE ABSORBING MATERIAL

POSTGRADUATE SEMINAR FACULTY SCIENCE AND TECHNOLOGY

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 63. SINGLE-AND DOUBLE-LAYER MICROWAVE ABSORBERS OF COBALT FERRITE AND GRAPHITE COMPOSITE AT GIGAHERTZ FREQUENCY

JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM

2019 JOURNAL INDEXED BY ERA CO-AUTHOR

## 64. MAGNETIC PHASE TRANSITION OF MECHANICALLY ALLOYED SINGLE SAMPLE Co<sub>0.5</sub>Ni<sub>0.5</sub>Fe<sub>2</sub>O<sub>4</sub>

RESULTS IN PHYSICS

2019 JOURNAL INDEXED BY ISI CO-AUTHOR

**65. SYSTEMATIC MICROSTRUCTURAL DEVELOPMENT WITH THERMAL DIFFUSIVITY BEHAVIOUR FROM NANOMETRIC TO MICRONIC GRAINS OF STRONTIUM TITANATE.**

JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

2019

JOURNAL

INDEXED BY SCOPUS

CO-AUTHOR

# PUBLICATION

---

## 66. USING GAME KIT FOR ENTHUSIASTIC AND INTERACTIVE LEARNING IN ADDITIONAL MATHEMATICS CLASSROOM

JOURNAL OF EDUCATION AND SOCIAL SCIENCES

2019 JOURNAL OTHER DATABASE CO-AUTHOR

## 67. A CASE STUDY IN IDENTIFYING THE LEVEL OF THINKING ABILITY IN PHYSICS SUBJECT AMONG SECONDARY SCHOOL STUDENTS

3RD ASIA INTERNATIONAL MULTIDISCIPLINARY CONFERENCE

2019 PROCEEDING NON-INDEX CO-AUTHOR

## 68. RECYCLING AND UTILISATION OF MILL SCALE TO PRODUCE CURRENT SMART ELECTROMAGNETIC ABSORBING MATERIAL

INNOVATION FOR SUSTAINABILITY AND GREEN TECHNOLOGY: DEGRADATION OF INANIMATE FORMS

2019 CHAPTER IN BOOK MAIN AUTHOR

## 69. DEGRADATION OF CELLULOSE MOLECULAR WEIGHT: EFFECT OF ACID HYDROLYSIS TIME ON CELLULOSE HYDROGEL PROPERTIES

INNOVATION FOR SUSTAINABILITY AND GREEN TECHNOLOGY: DEGRADATION OF INANIMATE FORMS

2019 CHAPTER IN BOOK CO-AUTHOR

## 70. DEPENDENCE OF MAGNETIC AND MICROWAVE LOSS ON EVOLVING MICROSTRUCTURE IN YTTRIUM IRON GARNET.

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS

2018 JOURNAL WOS CO-AUTHOR

## 71. EFFECTS OF CRYSTALLINE PHASE FORMATION OF MULTIFERROIC BIFE03 ON MICROWAVE ABSORPTION CHARACTERISTICS

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS

2018 JOURNAL WOS CO-AUTHOR

## 72. INFLUENCE OF MICROSTRUCTURAL EFFECT ON MICROVICKERS HARDNESS PROPERTIES OF SIO2-NA2O-CAO (SNC) WASTE BASED GLASSCERAMIC

JOURNAL OF PHYSICS: CONFERENCE SERIES

2018 JOURNAL WOS CO-AUTHOR

## 73. SINGLE- AND DOUBLE-LAYER MICROWAVE ABSORBERS OF COBALT FERRITE AND GRAPHITE COMPOSITE AT GIGAHERTZ FREQUENCY.

JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM

2018 JOURNAL WOS CO-AUTHOR

## 74. INFLUENCE OF SINTERING TEMPERATURE ON THE STRUCTURAL, ELECTRICAL AND MICROWAVE PROPERTIES OF YTTRIUM IRON GARNET (YIG)

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS

2018 JOURNAL WOS CO-AUTHOR

## 75. SYSTEMATIC MICROSTRUCTURAL DEVELOPMENT WITH THERMAL DIFFUSIVITY BEHAVIOUR FROM NANOMETRIC TO MICRONIC GRAINS OF STRONTIUM TITANATE

JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY

2018 JOURNAL WOS CO-AUTHOR

## 76. MICROWAVE ABSORPTION PROPERTIES OF SINGLE AND DOUBLE-LAYER COATINGS BASED ON STRONTIUM HEXAFERRITE AND GRAPHITE NANOCOMPOSITE.

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS

2018 JOURNAL WOS CO-AUTHOR

## 77. METHOD FOR PRODUCING LIGHTWEIGHT ABSORBING MATERIAL FOR ELECTROMAGNETIC RADIATION ABSORPTION, LIGHTWEIGHT ABSORBING MATERIAL AND SPIRAL-LIKE CARBON NANOFIBER ASSOCIATED THEREOF

2018 POLICY

## 78. INFLUENCE OF PARALLEL EVOLVING MICROSTRUCTURE ON THERMAL DIFFUSIVITY IN STRONTIUM TITANATE

MATERIALS SCIENCE FORUM

2016 JOURNAL SCOPUS CO-AUTHOR

# PUBLICATION

---

## 79. INFLUENCE OF MICROSTRUCTURAL EVOLUTION ON THE MAGNETICALLY GROUP DOMINANCE IN POLYCRYSTALLINE Y3FE5O12 MULTI-SAMPLES

MATERIALS SCIENCE FORUM

2016 JOURNAL SCOPUS CO-AUTHOR

## 80. RECENT DEVELOPMENTS OF SMART ELECTROMAGNETIC ABSORBERS BASED POLYMER-COMPOSITES AT GIGAHERTZ FREQUENCIES

JOURNALS OF MAGNETISM AND MAGNETIC MATERIALS

2016 JOURNAL SCOPUS MAIN AUTHOR

## 81. COMPOSITIONAL AND FREQUENCY DEPENDENT-MAGNETIC AND MICROWAVE CHARACTERISTICS OF INDIUM SUBSTITUTED YTTRIUM IRON GARNET.

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONIC

2016 JOURNAL SCOPUS CO-AUTHOR

## 82. INDIUM-SUBSTITUTION AND INDIUM-LESS CASE EFFECTS ON STRUCTURAL AND MAGNETIC PROPERTIES OF YTTRIUM-IRON GARNET.

JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS

2015 JOURNAL SCOPUS CO-AUTHOR

## 83. DEVELOPMENT OF MAGNETIC B-H HYSTERESIS LOOPS THROUGH STAGES OF MICROSTRUCTURE EVOLUTION OF BULK BAFE12O19

JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM

2015 JOURNAL SCOPUS CO-AUTHOR

## 84. INFLUENCE OF INDIUM SUBSTITUTION AND MICROSTRUCTURE CHANGES ON THE MAGNETIC PROPERTIES EVOLUTION OF Y3FE52XINXO12 (X =0.0?0.4)

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS

2015 JOURNAL SCOPUS CO-AUTHOR

## 85. CHARACTERIZATION OF NIXZN1- XFE2O4 AND PERMITTIVITY OF SOLID MATERIAL OF NIO, ZNO, FE2O3, AND NIXZN1- XFE2O4 AT MICROWAVE FREQUENCY USING OPEN ENDED COAXIAL PROBE

INTERNATIONAL JOURNAL OF MICROWAVE SCIENCE AND TECHNOLOGY

2015 JOURNAL SCOPUS CO-AUTHOR

## 86. MICROWAVE ABSORPTION CHARACTERISTICS OF SOME FERRITE-FILLED POLYMER COMPOSITES.

ADVANCED MATERIALS RESEARCH

2014 JOURNAL SCOPUS MAIN AUTHOR

## 87. MAGNETIC M-H LOOPS FAMILY CHARACTERISTICS IN THE MICROSTRUCTURE EVOLUTION OF BAFE12O19.

JOURNAL OF MATERIALS SCIENCE

2014 JOURNAL SCOPUS CO-AUTHOR

## 88. EVOLVING MICROSTRUCTURE, MAGNETIC PROPERTIES AND PHASE TRANSITION IN A MECHANICALLY ALLOYED NI0.5ZN0.5FE2O4 SINGLE SAMPLE

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS

2014 JOURNAL SCOPUS CO-AUTHOR

## 89. GROUPING TRENDS OF MAGNETIC PERMEABILITY COMPONENTS IN THEIR PARALLEL EVOLUTION WITH MICROSTRUCTURE IN NI0.3ZN0.7FE2O4 .

JOURNALS OF MATERIALS SCIENCE: MATERIALS IN ELCTRONIC

2014 JOURNAL SCOPUS CO-AUTHOR

## 90. A COMPARATIVE STUDY OF DIFFERENT SINTERING ROUTES EFFECTS ON EVOLVING MICROSTRUCTURE AND B?H MAGNETIC HYSTERESIS IN MECHANICALLY-ALLOYED NI?ZN FERRITE, NI0.3ZN0.7FE2O4

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS

2014 JOURNAL SCOPUS CO-AUTHOR

## 91. BROADENING OF EM ENERGY-ABSORPTION FREQUENCY BAND BY MICROMETER-TO-NANOMETER GRAIN SIZE REDUCTION IN NIZN FERRITE.

IEEE TRANSACTIONS ON MAGNETICS

2013 JOURNAL SCOPUS MAIN AUTHOR

# PUBLICATION

---

**92. CRYSTALLINITY AND MAGNETIC PROPERTIES DEPENDENCE ON SINTERING TEMPERATURE AND SOAKING TIME OF MECHANICALLY ALLOYED NANOMETER-GRAIN  $\text{Ni}_{0.5}\text{Zn}_{0.5}\text{Fe}_2\text{O}_4$**

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS.

2013

JOURNAL

SCOPUS

CO-AUTHOR

**93. SYNTHESIS AND CHARACTERISATION OF  $\text{NiZn}$ -FERRITE (0.5? X ?0.8) FOR MICROWAVE ABSORPTION VIA MECHANICAL ALLOYING.**

26TH REGIONAL CONFERENCE ON SOLID STATE SCIENCE AND TECHNOLOGY 2011

2011

PROCEEDING

NON-INDEX

MAIN AUTHOR

# AWARDS/RECOGNITION

---

## 1. EDITOR'S CHOICE ARTICLE

2024

INTERNATIONAL

## 2. ANUGERAH PENYELIDIK CEMERLANG

2024

UNIVERSITY

## 3. ANUGERAH PENULIS CEMERLANG

2024

UNIVERSITY

## 4. ANUGERAH PENULIS JURNAL TERBAIK

2024

UNIVERSITY

## 5. ANUGERAH PENULIS JURNAL CEMERLANG (MEI 2024)

2024

UNIVERSITY

## 6. ANUGERAH PENULIS JURNAL CEMERLANG (JUN 2024)

2024

UNIVERSITY

## 7. ANUGERAH PENULIS JURNAL CEMERLANG (JULAI 2024)

2024

UNIVERSITY

## 8. ANUGERAH PENILAI JURNAL BERKUALITI (SEPTEMBER 2024)

2024

UNIVERSITY

## 9. ANUGERAH PENILAI JURNAL BERKUALITI (OKTOBER 2024)

2024

UNIVERSITY

## 10. ANUGERAH INOVASI TERBAIK (NOVEMBER 2024)

2024

UNIVERSITY

## 11. ANUGERAH INOVASI TERBAIK (OKTOBER 2024)

2024

UNIVERSITY

## 12. ANUGERAH 'BEST RESEARCH AWARD' (OKTOBER 2024)

2024

UNIVERSITY

## 13. ANUGERAH PENILAI BERKUALITI (NOVEMBER 2024)

2024

UNIVERSITY

## 14. ANUGERAH PENILAI BERKUALITI (DISEMBER 2024)

2024

UNIVERSITY

# AWARDS/RECOGNITION

---

## 15. ACADEMIC ADVISOR

KEMENTERIAN PENDIDIKAN

2024 NATIONAL

## 16. ACADEMIC ADVISOR

PERTANDINGAN INOVASI SAINS, TEKNOLOGI DAN KEJURUTERAAN (PISTEK)

2024 NATIONAL

## 17. ACADEMIC ADVISOR

MALAYSIAN YOUNG SCIENTIST ORGANISATION

2024 INTERNATIONAL

## 18. ACADEMIC ADVISOR

SASBADI & KEMENTERIAN PENDIDIKAN MALAYSIA

2024 NATIONAL

## 19. CRAFTING MATHEMATICAL MINDS BY ENGAGING BRAILLE-TANGIBLE 3IN1 3D PRINTED GEOBOARDS MODULE FOR VISUALLY IMPAIRED CHILDREN

Semarak International Research Article Competition 2024 (SIRAC 2024)

2024 ANTARABANGSA GOLD

## 20. FLEXIBLE MICRO STRIP PATCH ANTENNA SENSOR FOR POSTURE MONITORING

SCEINCE AND TECHNOLOGY RESEARCH EXPO (SCITEX)

2024 UNIVERSITI BRONZE

## 21. COMPUTATIONAL SIMULATION AND EXPERIMENTAL ANALYSIS OF ACTIVATED CARBON FROM AGRICULTURE WASTE AS ELECTROMAGNETIC ABSORBER

Semarak International Research Article Competition 2024 (SIRAC 2024)

2024 ANTARABANGSA BEST PAPER AWARD

## 22. A CASE STUDY: THE SECONDARY STUDENTS OVERALL SATISFACTION ON ONLINE LEARNING

KONFERENSI NASIONAL TEKNOLOGI INFORMASI

2024 ANTARABANGSA BEST PAPER AWARD

## 23. CRYPTIQ: GAMIFYING APPROACH ON LEARNING CRYPTOGRAPHY

Pertandingan Inovasi FKP 2024

2024 UNIVERSITI SILVER

## 24. BLOCK-BOUND SECRETS: TEACHING CRYPTOGRAPHY VIA MINECRAFT ADVENTURES

EAST COAST SCHOOLS EDUCATION RESEARCH SYMPOSIUM (ECSERS) 2024

2024 KEBANGSAAN BEST PAPER AWARD

## 25. BLOCK-BOUND SECRETS: TEACHING CRYPTOGRAPHY VIA MINECRAFT ADVENTURES

EAST COAST SCHOOLS EDUCATION RESEARCH SYMPOSIUM (ECSERS) 2024

2024 KEBANGSAAN PLATINUM

## 26. ACCESSIBLE CONGKAK: A BOARD GAME FOR THE VISUALLY IMPAIRED

Pertandingan Inovasi FKP 2024

2024 UNIVERSITI GOLD

## 27. OLD TROPHY: A GAMIFIED APPROACH TO MASTERING THE INTERNATIONAL SYSTEM OF UNITS

Pertandingan Inovasi FKP 2024

2024 UNIVERSITI BRONZE

**28. EXPLORING LEARNING GAPS IN THE FUNCTIONS SUBTOPIC: A STUDY OF FORM 4 KSSM ADDITIONAL MATHEMATICS PRETEST RESULTS OF SECONDARY SCHOOL**

Semarak International Research Article Competition 2024 (SIRAC 2024)

2024

ANTARABANGSA

SILVER

# AWARDS/RECOGNITION

---

## 29. 3D PRINTED EM WAVE ABSORBERS FROM SILICA SAND AND INDUSTRIAL WASTE

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI GOLD

## 30. BREAKTHROUGH IN UV PROTECTION: UTILIZING ZNO AND FE<sub>2</sub>O<sub>3</sub> NANOMATERIALS IN CARBON NANOTUBE- BASED FILAMENTS FOR OUTDOOR USE

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE (IJURECON 2024)

2024 ANTARABANGSA SILVER

## 31. DEVELOPMENT OF A MILL SCALE AND TITANIUM-BASED COATING FOR ENHANCED AIR FILTRATION EFFICIENCY

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE (IJURECON 2024)

2024 ANTARABANGSA GOLD

## 32. ELECTROMAGNETIC WAVE EMISSION PROFILES: A STUDY OF EVERYDAY ELECTRONIC DEVICES.

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE (IJURECON 2024)

2024 ANTARABANGSA GOLD

## 33. ELECTROMAGNETIC EXPOSURE: ANALYZING ELECTRONIC DEVICES USAGE AMONG KOLEJ PERMATA INSAN STUDENTS

JOHOR INTERNATIONAL INNOVATION INVENTION COMPETITION AND SYMPOSIUM (JIICaS 2024)

2024 ANTARABANGSA BRONZE

## 34. ANUGERAH PERKHIDMATAN CEMERLANG

2023 UNIVERSITY

## 35. ANUGERAH AHLI AKADEMIK HARAPAN

2023 UNIVERSITY

## 36. ANUGERAH GURU PALING PENYABAR

2023 UNIVERSITY

## 37. ACADEMIC ADVISOR

KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI

2023 NATIONAL

## 38. ACADEMIC ADVISOR

KEMENTERIAN PENDIDIKAN

2023 NATIONAL

## 39. SYNTHESIS OF SILICA-BASED SAND COMPOSITE AS ELECTROMAGNETIC WAVE ABSORBER

Semarak International Innovation Challenge (SIIC2023)

2023 ANTARABANGSA GOLD

## 40. ELECTROMAGNETIC ABSORBER FROM ELECTRONIC WASTE

Insan Junior Researchers International Conference (IJURECON 2023)

2023 ANTARABANGSA SILVER

## 41. ASSESSING STUDENT AWARENESS OF CYBERSECURITY: A MINI SURVEY

Insan Junior Researchers International Conference (IJURECON 2023)

2023 ANTARABANGSA GOLD

## 42. PHYSICSCRAFT: EMPOWERING LEARNING THROUGH MINECRAFT EDUCATION

DARULAMAN INTERNATIONAL INNOVATION, COMPETITION & EXHIBITION (DiICE 2023)

2023 ANTARABANGSA GOLD

# AWARDS/RECOGNITION

---

## 43. ENHANCING LEARNING OF TRIANGLES VIA MINECRAFT EDUCATION

PUTRA INNOCREATIVE POSTER COMPETITION INTERNATIONAL PUTRA INNOCREATIVE CARNIVAL IN TEACHING AND LEAR

2023 ANTARABANGSA SILVER

## 44. ANUGERAH PENYELIDIK TERBAIK

2022 OTHERS

## 45. BEST JURY AWARD (VIRTUAL ASIA INNOVATION SHOW 2022)

2022 INTERNATIONAL

## 46. BEST RESEARCH AWARD

2022 INTERNATIONAL

## 47. STAF CONTOH (KATEGORI AKADEMIK)

2022 OTHERS

## 48. DEVELOPMENT OF PAINLESS HOLLOW MICRONEEDLE-3D PRINTED MIMICS MOSQUITO BITE FOR TRANSDERMAL DRUG DELIVERY

VIRTUAL ASIA INNOVATION SHOW (V-AIS 2022)

2022 ANTARABANGSA SILVER

## 49. REDUCING EMI POLLUTION BY USING NATURAL SOURCE

World Youth STEM Invention Innovation (WYSII 2022)

2022 KEBANGSAAN SILVER

## 50. ALTERNATIVE ASSESSMENT FOR ADDITIONAL MATHEMATICS AND ENGLISH SUBJECTS IN SCHOOL

INTERNATIONAL PUTRA INNOCREATIVE CARNIVAL IN TEACHING AND LEARNING 2022 (PICTL 2022)

2022 ANTARABANGSA SILVER

## 51. THE POTENTIAL OF NANOTECHNOLOGY IN FABRICATING THE SHARPEST SWORD IN WORLD HISTORY

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA GOLD

## 52. GAME-BASED LEARNING APPROACH IN UNDERSTANDING PHYSICS CONCEPT VIA MINECRAFT

INTERNATIONAL COMPETITION AND EXHIBITION ON COMPUTING INNOVATION 2022 (iCE-CInno 2022)

2022 ANTARABANGSA SILVER

## 53. BEST EXTENDED ABSTRACT

2021 INTERNATIONAL

## 54. BEST VIDEO AWARD

2021 INTERNATIONAL

## 55. MOST IMPACTFUL RESEARCH

2021 INTERNATIONAL

## 56. MOST PROMISING RESEARCH

2021 INTERNATIONAL

# AWARDS/RECOGNITION

---

## 57. ELECTROMAGNETIC WAVE ABSORBING MATERIAL BASED ON LOW-COST SLUDGE WASTE IN REDUCING THE ELECTROMAGNETIC WAVE INTERFERENCE POLLUTION

KARNIVAL REKACIPTA & INOVASI (KREATIV 2021)

2021 UNIVERSITI GOLD

## 58. FABRICATION OF AS-SYNTHESIZED CARBON NANO FIBERS/3D PRINTED HONEYCOMB STRUCTURE AS ELECTROMAGNETIC WAVE ABSORBER

International Multidisciplinary Innovation Competition 2021 (IMIC 2021)

2021 ANTARABANGSA BRONZE

## 59. THE GIFTED STUDENT PERFORMANCE IN LEARNING PYTHON PROGRAMMING: A CASE STUDY

INTERNATIONAL VIRTUAL CONFERENCE ON LIBERAL STUDIES 2021 MASTERY OF MULTIDISCIPLINARY AND INTER-DISC

2021 ANTARABANGSA BEST PAPER AWARD

## 60. MULTIPLE REFLECTIONS OF SPIRAL AND SPRING PASTA-LIKE CARBON NANOCOILS IN ABSORBING THE EMI WAVE

THE 4th INTERNATIONAL INDONESIA-MALAYSIA-THAILAND SYMPOSIUM ON INNOVATION AND CREATIVITY 2021

2021 ANTARABANGSA SILVER

## 61. SILICA BASED SAND AS POTENTIAL FILLER MATERIAL IN REDUCING ELECTROMAGNETIC INTERFERENCE POLLUTION

INTERNATIONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION 2021 (ISIC III 2021)

2021 ANTARABANGSA GOLD

## 62. INCOPORATION OF PLASTICIZER IN CELLULOSE NANOFIBRE/3D PRINTED WASTE POLYLACTIC ACID (PLA) FOR THE FABRICATION OF FLEXIBLE BIOPLASTIC COMPOSITE

International Digital Innovation and Invention Challenge 2021 (IDIIC 2021)

2021 ANTARABANGSA GOLD

## 63. ELECTROMAGNETIC AND MORPHOLOGICAL CHARACTERIZATION OF AN ACTIVATED CARBON TERMINALIA CATAPPA/3D PRINTED AS AN INEXPENSIVE ELECTROMAGNETIC WAVE ABSORBING MATERIALS

International Multidisciplinary Innovation Competition 2021 (IMIC 2021)

2021 ANTARABANGSA BRONZE

## 64. LOW-COST AS SYNTHESIZED CARBON NANOTUBES AS POTENTIAL ELECTROMAGNETIC ABSORBING MATERIALS

International Multidisciplinary Innovation Competition 2021 (IMIC 2021)

2021 ANTARABANGSA GOLD

## 65. BEST EXTENDED ABSTRACT

2020 INTERNATIONAL

## 66. BEST EXTENDED ABSTRACT

2020 INTERNATIONAL

## 67. BEST EXTENDED ABSTRACT

2020 INTERNATIONAL

## 68. BEST EXTENDED ABSTRACT

2020 INTERNATIONAL

## 69. THE PERFORMANCE OF LOW-COST AGRICULTURAL WASTE/EPOXY AS AN ELECTROMAGNETIC WAVE ABSORBING MATERIALS AT GIGAHEARTZ FREQUENCY RANGE

INTERNATIONAL INNOVATION COMPETITION (INNOCOM2020)

2020 ANTARABANGSA SILVER

**70. GIFT TO GIVE: EXPLORING GIFTED STUDENTS AS TRENDSETTER TO INTENSIFY PHYSICS FOR WEAK STUDENTS THROUGH 3D PRINTING KITS MODULE**

eCARNIVAL RESEARCH INNOVATION (eCRI 2020)

2020

KEBANGSAAN

BRONZE

# AWARDS/RECOGNITION

---

## 71. DEPOLYMERIZATION OF POLYETHYLENE TEREPHTHALATE (PET) FROM 3D PRINTED WASTE VIA THERMAL AND ALKALINE HYDROLYSIS

eCARNIVAL RESEARCH INNOVATION (eCRI 2020)

2020 KEBANGSAAN SILVER

## 72. LOW-COST MICROWAVE ABSORBING MATERIAL IN REDUCING ELECTROMAGNETIC WAVE INTERFERENCE POLLUTION

INVENTION, INNOVATION AND DESIGN EXPOSITION 2020 (IIDEX2020)

2020 ANTARABANGSA GOLD

## 73. LEARN HISTORY INTEGRATED WITH CRYPTOGRAPHY THROUGH GAMIFICATION APPROACH

INTERNATIONAL PUTRA INNOCREATIVE CARNIVAL IN TEACHING AND LEARNING 2020

2020 ANTARABANGSA SILVER

## 74. LOW-COST 3D PRINTED-TERMINALIA CATAPPA FRUIT SHELLS COMPOSITES AS POTENTIAL ELECTROMAGNETIC ABSORBING MATERIALS

INTERNATIONAL INNOVATION COMPETITION (INNOCOM2020)

2020 ANTARABANGSA SILVER

## 75. ENHANCEMENT OF MICROWAVE ABSORBING PROPERTIES VIA DOUBLE-LAYER STRUCTURING OF CNTS/EPOXY AND CARBON BLACK/EPOXY NANOCOMPOSITES

MATERIALS TECHNOLOGY CHALLENGE 2019

2019 UNIVERSITI GOLD

## 76. BROADBAND MICROWAVE ABSORBING PERFORMANCES OF MULTIWALLED CNT/EPOXY RESIN NANOCOMPOSITES

MATERIALS TECHNOLOGY CHALLENGE 2019

2019 UNIVERSITI SILVER

## 77. MICROWAVE ABSORPTION PERFORMANCE OF CNTS CATALYZED BY WASTE MILL SCALE NANOCOMPOSITES AS POTENTIAL ANTI-RADAR COATING MATERIAL

MATERIALS TECHNOLOGY CHALLENGE 2019

2019 UNIVERSITI SILVER

## 78. REFLECTION LOSS PERFORMANCE OF COCO PEAT-MULTIWALLED CARBON NANOTUBES/EPOXY RESIN AT X-BAND AND KU-BAND

INTERNATIONAL SYMPOSIUM ON ADVANCED MATERIALS & NANOTECHNOLOGY

2019 ANTARABANGSA SILVER

## 79. SYNTHESIS AND MICROWAVE ABSORPTION ENHANCEMENT OF RADAR ABSORBING RICE HUSK/CONI FERRITE COMPOSITES IN X AND KU-BAND FREQUENCY

INTERNATIONAL SYMPOSIUM ON ADVANCED MATERIALS & NANOTECHNOLOGY

2019 ANTARABANGSA SILVER

## 80. MICROWAVE ABSORPTION PERFORMANCE OF HYBRID NANOCOMPOSITES AT HIGHER GIGAHERTZ FREQUENCY

MATERIALS TECHNOLOGY CHALLENGE 2019

2019 UNIVERSITI GOLD

## 81. A 3D HOLOGRAPHIC DISPLAY FOR AUGMENTED REALITY: A PRACTICAL APPROACH FOR INTERACTIVE LEARNING IN PHYSICS

INTERNATIONAL COMPETITION AND EXHIBITIONS ON COMPUTING INNOVATIONS 2019

2019 ANTARABANGSA GOLD

## 82. FLEXIBLE PATCH ANTENNA SENSOR FOR PRAYER MOVEMENT DETECTION

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION

2019 KEBANGSAAN BRONZE

## 83. INTRODUCING LOW COST WASTE MATERIALS AS ELECTROMAGNETIC WAVE ABSORBER AT GHZ FREQUENCY RANGE

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION

2019 KEBANGSAAN BRONZE

**84. BROADENING MICROWAVE ABSORPTION VIA DOUBLE-LAYER COUPLING OF DIELECTRIC CARBON BLACK/EPOXY RESIN NANOCOMPOSITES LAYER AND MAGNETIC COBALT ZINC FERRITE/EPOXY RESIN NANOCOMPOSITES LAYER**

INTERNATIONAL SYMPOSIUM ON ADVANCED MATERIALS & NANOTECHNOLOGY

2019

ANTARABANGSA

BRONZE

# AWARDS/RECOGNITION

---

## 85. ELECTROMAGNETIC WAVE ABSORBING CHARACTERISTICS OF C/CO-MN AND C/CO-ZN DOPED BARIUM HEXAFERRITE NANOCOMPOSITES

INTERNATIONAL SYMPOSIUM ON ADVANCED MATERIALS & NANOTECHNOLOGY

2019

ANTARABANGSA

GOLD

## 86. MASS MICROGRAPHY AWARD 2016

2016

NATIONAL

## 87. MASS MICROGRAPHY AWARD

2015

INTERNATIONAL

## 88. SILVER MEDAL FOR INVENTION/INNOVATION

2012

UNIVERSITY