



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. DEVELOPMENT OF A TECHNOLOGY - AND GAMIFICATION- INTEGRATED INNOVATION FOR THE ADDITIONAL MATHEMATICS SUBJECT

2026 GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) ON GOING
CO-RESEARCHER

2. 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

3. 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

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

2023 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

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

2021

GERAN PENYELIDIKAN KHAS

ON GOING

CO-RESEARCHER

RESEARCH

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

2021 GERAN KPT ON GOING CO-RESEARCHER

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

2020 GERAN KPT COMPLETED MAIN RESEARCHER

8. 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

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

2019 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

10. USIMAKERS (INDUSTRY4WRD - INDUSTRY@UNIVERSITY)

2019 PROJEK REVOLUSI INDUSTRI 4.0 COMPLETED CO-RESEARCHER

11. BIODEGRADATION PATHWAY OF NEW EMERGING POLLUTANTS BY NEWLY ISOLATED FUNGI

2018 GERAN PENYELIDIKAN HEADSTART PROGRAM COMPLETED CO-RESEARCHER

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

2018 GERAN PENYELIDIKAN HEADSTART PROGRAM COMPLETED CO-RESEARCHER

13. 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. ELECTROMAGNETIC WAVE ABSORPTION PERFORMANCE OF Ni_{0.7}Zn_{0.3}Fe₂O₄/ZEOLITE/ CNT-EPOXY POLYMER MATRIX AT DIFFERENT THICKNESS**
JOURNAL OF ADVANCED RESEARCH IN MICRO AND NANO ENGINEERING
2025 JOURNAL OTHER DATABASE MAIN AUTHOR
- 2. DESIGNING 3D PRINTED ELECTROMAGNETIC WAVE ABSORBER**
JOURNAL OF ADVANCED RESEARCH DESIGN
2025 JOURNAL INDEXED IN MYJOURNAL (<10 YEARS) MAIN AUTHOR
- 3. DEVELOPMENT OF A NATURAL WATER PURIFICATION SYSTEM FROM AGRICULTURAL WASTE**
VIRTUAL INNOVATION COMPETITION
2025 PROCEEDING OTHER DATABASE CO-AUTHOR
- 4. PROCEEDINGS BOOK ICIEST 2025**
2025 BOOK
- 5. POLISI PENGAJARAN DAN PEMBELAJARAN KOLEJ PERMATA INSAN**
2025 POLICY
- 6. MATERIALS? PROPERTIES OF LIGHTWEIGHT SPIRAL HYBRID CNT/EPOXY COMPOSITES ENHANCED REFLECTION LOSS**
JOURNAL OF ADVANCED RESEARCH IN APPLIED MECHANICS
2024 JOURNAL SCOPUS CORRESPONDING AUTHOR
- 7. 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
- 8. SYNTHESIZED HYBRID CNT POLYMER COMPOSITE IN REDUCING EMI POLLUTION AT GIGAHERTZ FREQUENCY RANGE**
SEMARAK INTERNATIONAL JOURNAL OF NANOTECHNOLOGY
2024 JOURNAL MYCITE CORRESPONDING AUTHOR
- 9. A CASE STUDY: THE SECONDARY STUDENTS OVERALL SATISFACTION ON ONLINE LEARNING**
INDONESIAN JOURNAL OF INFORMATION SYSTEMS (IJIS)
2024 JOURNAL OTHER DATABASE MAIN AUTHOR
- 10. 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
- 11. 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
- 12. 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
- 13. 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

PUBLICATION

14. 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

15. 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

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

5TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE & INNOVATION

2024 PROCEEDING OTHER DATABASE CORRESPONDING AUTHOR

17. 3D PRINTING ACTIVITY FOR YOUNG INNOVATORS

2024 BOOK EDITOR

18. 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

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

3D PRINTING ACTIVITY FOR YOUNG INNOVATORS

2024 CHAPTER IN BOOK MAIN AUTHOR

20. 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

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

INNOVATIVE TEACHING AND LEARNING JOURNAL (ITLJ)

2023 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

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

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

2023 JOURNAL OTHER DATABASE MAIN AUTHOR

23. 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

24. 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

25. GAME-BASED LEARNING: THE EDUCATIONAL BOARD GAME TREND

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE

2023 PROCEEDING NON-INDEX CO-AUTHOR

26. ASSESSING STUDENT AWARENESS OF CYBERSECURITY: A MINI SURVEY

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

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

PUBLICATION

27. 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

28. 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

29. ELECTROMAGNETIC WAVE REDUCTION OF MULTIWALLED CARBON NANOTUBES (MWCNT) MIXED NANOMETER COFE₂O₄ AT HIGHER FREQUENCY RANGE

MATERIALS TODAY: PROCEEDINGS

2022 JOURNAL INDEXED BY SCOPUS AND ERA MAIN AUTHOR

30. 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

31. 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

32. 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

33. REVIEW OF METHOD FOR ENERGY HARVESTING FROM NATURAL SOURCES

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2022

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

34. 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

35. 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

36. ELECTROMAGNETIC WAVE REDUCTION OF MULTIWALLED CARBON NANOTUBES MIXED NANOMETER COFE₂O₄ AT HIGHER FREQUENCY RANGE

THE INTERNATIONAL SYMPOSIUM ON POLYMERIC MATERIALS 2022

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

37. 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

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

2022 BOOK EDITOR

39. 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

PUBLICATION

40. 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

41. 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

42. POLISI AKADEMIK KOLEJ GENIUS INSAN 2022

2022 POLICY

43. EFFECT OF MICROSTRUCTURAL EVOLUTION FROM NANO TO MICRON GRAIN SIZE REGIME TOWARDS STRUCTURAL, MAGNETIC, ELECTRICAL AND MICROWAVE PROPERTIES OF GADOLINIUM IRON GARNET (GD₃FE₅O₁₂)

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS

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

44. 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

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

JURNAL PENDIDIKAN SAINS DAN MATEMATIK MALAYSIA

2021 JOURNAL MYCITE CORRESPONDING AUTHOR

46. 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

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

INTERNATIONAL MULTIDISCIPLINARY INNOVATION COMPETITION

2021 PROCEEDING NON-INDEX MAIN AUTHOR

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

INTERNATIONAL VIRTUAL CONFERENCE ON LIBERAL STUDIES 2021

2021 PROCEEDING NON-INDEX CO-AUTHOR

49. 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

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

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

51. 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

52. 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

PUBLICATION

53. FABRICATION OF A-SYNTHEZIZED CARBON NANO FIBERS/3D PRINTED HONEYCOMB STRUCTURE AS ELECTROMAGNETIC WAVE ABSORBER

INTERNATIONAL MULTIDISCIPLINARY INNOVATION COMPETITION

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

54. 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

55. 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

56. USING NLP TECHNIQUES TO IDENTIFY STUDENTS? LEARNING STYLE BASED ON VAK LEARNING METHOD

ACTIVE LEARNING IN EDUCATION 4.0 STUDENTS AS OWNERS OF LEARNING

2021 CHAPTER IN BOOK MAIN AUTHOR

57. 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

58. 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

59. 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

60. A STUDY ON MICROWAVE ABSORPTION PROPERTIES OF CARBON BLACK AND Ni_{0.6}Zn_{0.4}Fe₂O₄ NANOCOMPOSITES BY TUNING THE MATCHING-ABSORBING LAYER STRUCTURES

SCIENTIFIC REPORTS

2020 JOURNAL INDEXED BY ERA CO-AUTHOR

61. COMPARATIVE STUDY OF SINGLE- AND DOUBLE-LAYER BAFE12O19-GRAPHITE NANOCOMPOSITES FOR ELECTROMAGNETIC WAVE ABSORBER APPLICATIONS

MATERIALS RESEARCH BULLETIN

2020 JOURNAL INDEXED BY ERA CO-AUTHOR

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

JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE

2020 JOURNAL SCOPUS MAIN AUTHOR

63. INFLUENCE OF DIFFERENT BFO FILLER CONTENT ON MICROWAVE ABSORPTION PERFORMANCES IN BIFE03/EPOXY RESIN COMPOSITES.

CERAMICS INTERNATIONAL

2020 JOURNAL INDEXED BY ERA CO-AUTHOR

64. 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

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

INTERNATIONAL INNOVATION COMPETITION (INNOCOM) 2020

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PROCEEDING

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MAIN AUTHOR

PUBLICATION

66. 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

67. 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

68. 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

69. MAGNETIC PHASE TRANSITION OF MECHANICALLY ALLOYED SINGLE SAMPLE CO_{0.5}NI_{0.5}FE₂O₄

RESULTS IN PHYSICS

2019 JOURNAL INDEXED BY ISI CO-AUTHOR

70. 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

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

JOURNAL OF EDUCATION AND SOCIAL SCIENCES

2019 JOURNAL OTHER DATABASE CO-AUTHOR

72. 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

73. 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

74. 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

75. 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

76. EFFECTS OF CRYSTALLINE PHASE FORMATION OF MULTIFERROIC BIFE_{0.3}O₃ ON MICROWAVE ABSORPTION CHARACTERISTICS

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS

2018 JOURNAL WOS CO-AUTHOR

77. 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

78. 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

PUBLICATION

79. 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

80. 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

81. 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

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

2018 POLICY

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

MATERIALS SCIENCE FORUM

2016 JOURNAL SCOPUS CO-AUTHOR

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

MATERIALS SCIENCE FORUM

2016 JOURNAL SCOPUS CO-AUTHOR

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

JOURNALS OF MAGNETISM AND MAGNETIC MATERIALS

2016 JOURNAL SCOPUS MAIN AUTHOR

86. 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

87. 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

88. 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

89. INFLUENCE OF INDIUM SUBSTITUTION AND MICROSTRUCTURE CHANGES ON THE MAGNETIC PROPERTIES EVOLUTION OF Y3FE52XINXO12 (X = 0.070.4)

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS

2015 JOURNAL SCOPUS CO-AUTHOR

90. 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

91. MICROWAVE ABSORPTION CHARACTERISTICS OF SOME FERRITE-FILLED POLYMER COMPOSITES.

ADVANCED MATERIALS RESEARCH

2014 JOURNAL SCOPUS MAIN AUTHOR

PUBLICATION

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

JOURNAL OF MATERIALS SCIENCE

2014 JOURNAL SCOPUS CO-AUTHOR

93. EVOLVING MICROSTRUCTURE, MAGNETIC PROPERTIES AND PHASE TRANSITION IN A MECHANICALLY ALLOYED NI_{0.5}ZN_{0.5}FE₂O₄ SINGLE SAMPLE

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS

2014 JOURNAL SCOPUS CO-AUTHOR

94. GROUPING TRENDS OF MAGNETIC PERMEABILITY COMPONENTS IN THEIR PARALLEL EVOLUTION WITH MICROSTRUCTURE IN NI_{0.3}ZN_{0.7}FE₂O₄ .

JOURNALS OF MATERIALS SCIENCE: MATERIALS IN ELCTRONIC

2014 JOURNAL SCOPUS CO-AUTHOR

95. A COMPARATIVE STUDY OF DIFFERENT SINTERING ROUTES EFFECTS ON EVOLVING MICROSTRUCTURE AND B_H MAGNETIC HYSTERESIS IN MECHANICALLY-ALLOYED NI_{1/2}ZN FERRITE, NI_{0.3}ZN_{0.7}FE₂O₄

JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS

2014 JOURNAL SCOPUS CO-AUTHOR

96. 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

97. CRYSTALLINITY AND MAGNETIC PROPERTIES DEPENDENCE ON SINTERING TEMPERATURE AND SOAKING TIME OF MECHANICALLY ALLOYED NANOMETER-GRAIN NI_{0.5}ZN_{0.5}FE₂O₄

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS.

2013 JOURNAL SCOPUS CO-AUTHOR

98. SYNTHESIS AND CHARACTERISATION OF 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. JOHAN (INDIVIDU) STRIKE SANTAI

2025 UNIVERSITY

2. TEMPAT KETIGA (KUMPULAN) STRIKE SANTAI

2025 UNIVERSITY

3. WRITER OF THE MONTH (AUGUST 2025)

2025 UNIVERSITY

4. WRITER OF THE MONTH (JULY 2025) PAPER 1

2025 UNIVERSITY

5. WRITER OF THE MONTH (JULY 2025) PAPER 2

2025 UNIVERSITY

6. WRITER OF THE MONTH (MAY 2025)

2025 UNIVERSITY

7. ANUGERAH STAF CONTOH (KATEGORI AKADEMIK) BULAN APRIL 2025

2025 UNIVERSITY

8. ACADEMIC ADVISOR

SASBADI & KEMENTERIAN PENDIDIKAN MALAYSIA

2025 NATIONAL

9. STUDY ON THE EFFECTIVENESS OF NATURAL-BASED THERMAL INSULATORS IN REDUCING GLOBAL WARMING

INSAN Junior Researchers International Conference (ijURECON 2025)

2025 ANTARABANGSA SILVER

10. EMR ABSORBER KIT: AN INNOVATIVE SOLUTION IN REDUCING ELECTROMAGNETIC RADIATION EXPOSURE

INSAN Junior Researchers International Conference (ijURECON 2025)

2025 ANTARABANGSA BRONZE

11. ADDITIVE MANUFACTURING OF LOW-COST WATER FILTERS FROM NATURAL WASTE-DERIVED PLA FILAMENTS

INTERNATIONAL FUTURE INNOVATORS CHALLENGE 2025 (IFIC 2025)

2025 ANTARABANGSA BRONZE

12. NANOPROTECTIVE FILAMENTS

VIRTUAL INNOVATION COMPETITION 2025

2025 ANTARABANGSA BRONZE

13. DEVELOPMENT OF A NATURAL WATER PURIFICATION SYSTEM FROM AGRICULTURAL WASTE

VIRTUAL INNOVATION COMPETITION 2025

2025 ANTARABANGSA GOLD

14. SUSTAINABLE WATER FILTRATION SYSTEM USING AGRICULTURAL WASTE AND ADDITIVE MANUFACTURING

INSAN Junior Researchers International Conference (ijURECON 2025)

2025 ANTARABANGSA SILVER

AWARDS/RECOGNITION

15. BATTERY E-WASTE AS AS SUITABLE SOURCE FOR ELECTROMAGNETIC ABSORBING MATERIALS

VIRTUAL INNOVATION COMPETITION 2025

2025 ANTARABANGSA GOLD

16. SUSTAINABLE RECYCLING OF CARBON RODS FROM BATTERY WASTE INTO PLA COMPOSITE FILAMENTS FOR ADDITIVE MANUFACTURING APPLICATIONS

INSAN Junior Researchers International Conference (IJURECON 2025)

2025 ANTARABANGSA GOLD

17. EFFECT OF ADDITION OF CARBON NANOTUBES (CNT) ON THE MECHANICAL STRENGTH OF EPOXY COMPOSITES

INSAN Junior Researchers International Conference (IJURECON 2025)

2025 ANTARABANGSA GOLD

18. ANUGERAH PENULIS JURNAL CEMERLANG (JULAI 2024)

2024 UNIVERSITY

19. ANUGERAH PENILAI JURNAL BERKUALITI (SEPTEMBER 2024)

2024 UNIVERSITY

20. EDITOR'S CHOICE ARTICLE

2024 INTERNATIONAL

21. ANUGERAH PENYELIDIK CEMERLANG

2024 UNIVERSITY

22. ANUGERAH PENULIS CEMERLANG

2024 UNIVERSITY

23. ANUGERAH PENULIS JURNAL TERBAIK

2024 UNIVERSITY

24. ANUGERAH PENULIS JURNAL CEMERLANG (MEI 2024)

2024 UNIVERSITY

25. ANUGERAH PENULIS JURNAL CEMERLANG (JUN 2024)

2024 UNIVERSITY

26. ANUGERAH PENILAI JURNAL BERKUALITI (OKTOBER 2024)

2024 UNIVERSITY

27. ANUGERAH INOVASI TERBAIK (NOVEMBER 2024)

2024 UNIVERSITY

28. ANUGERAH INOVASI TERBAIK (OKTOBER 2024)

2024 UNIVERSITY

AWARDS/RECOGNITION

29. ANUGERAH 'BEST RESEARCH AWARD' (OKTOBER 2024)

2024 UNIVERSITY

30. ANUGERAH PENILAI BERKUALITI (NOVEMBER 2024)

2024 UNIVERSITY

31. ANUGERAH PENILAI BERKUALITI (DISEMBER 2024)

2024 UNIVERSITY

32. ACADEMIC ADVISOR

KEMENTERIAN PENDIDIKAN

2024 NATIONAL

33. ACADEMIC ADVISOR

PERTANDINGAN INOVASI SAINS, TEKNOLOGI DAN KEJURUTERAAN (PISTEK)

2024 NATIONAL

34. ACADEMIC ADVISOR

MALAYSIAN YOUNG SCIENTIST ORGANISATION

2024 INTERNATIONAL

35. ACADEMIC ADVISOR

SASBADI & KEMENTERIAN PENDIDIKAN MALAYSIA

2024 NATIONAL

36. FLEXIBLE MICRO STRIP PATCH ANTENNA SENSOR FOR POSTURE MONITORING

SCEINCE AND TECHNOLOGY RESEARCH EXPO (SCITEX)

2024 UNIVERSITI BRONZE

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

KONFERENSI NASIONAL TEKNOLOGI INFORMASI

2024 ANTARABANGSA BEST PAPER AWARD

38. CRYPTIQ: GAMIFYING APPROACH ON LEARNING CRYPTOGRAPHY

Pertandingan Inovasi FKP 2024

2024 UNIVERSITI SILVER

39. BLOCK-BOUND SECRETS: TEACHING CRYPTOGRAPHY VIA MINECRAFT ADVENTURES

EAST COAST SCHOOLS EDUCATION RESEARCH SYMPOSIUM (ECSERS) 2024

2024 KEBANGSAAN BEST PAPER AWARD

40. BLOCK-BOUND SECRETS: TEACHING CRYPTOGRAPHY VIA MINECRAFT ADVENTURES

EAST COAST SCHOOLS EDUCATION RESEARCH SYMPOSIUM (ECSERS) 2024

2024 KEBANGSAAN PLATINUM

41. 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

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

Pertandingan Inovasi FKP 2024

2024 UNIVERSITI BRONZE

AWARDS/RECOGNITION

43. 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

44. 3D PRINTED EM WAVE ABSORBERS FROM SILICA SAND AND INDUSTRIAL WASTE

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI GOLD

45. BREAKTHROUGH IN UV PROTECTION: UTILIZING ZNO AND Fe_3O_4 NANOMATERIALS IN CARBON NANOTUBE- BASED FILAMENTS FOR OUTDOOR USE

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE (IJURECON 2024)

2024 ANTARABANGSA SILVER

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

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE (IJURECON 2024)

2024 ANTARABANGSA GOLD

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

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE (IJURECON 2024)

2024 ANTARABANGSA GOLD

48. 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

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

JOHOR INTERNATIONAL INNOVATION INVENTION COMPETITION AND SYMPOSIUM (JIICaS 2024)

2024 ANTARABANGSA BRONZE

50. ACCESSIBLE CONGKAK: A BOARD GAME FOR THE VISUALLY IMPAIRED

Pertandingan Inovasi FKP 2024

2024 UNIVERSITI GOLD

51. ANUGERAH PERKHIDMATAN CEMERLANG

2023 UNIVERSITY

52. ANUGERAH AHLI AKADEMIK HARAPAN

2023 UNIVERSITY

53. ANUGERAH GURU PALING PENYABAR

2023 UNIVERSITY

54. ACADEMIC ADVISOR

KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI

2023 NATIONAL

55. ACADEMIC ADVISOR

KEMENTERIAN PENDIDIKAN

2023 NATIONAL

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

Semarak International Innovation Challenge (SIIC2023)

2023 ANTARABANGSA GOLD

AWARDS/RECOGNITION

57. ELECTROMAGNETIC ABSORBER FROM ELECTRONIC WASTE

Insan Junior Researchers International Conference (IJURECON 2023)

2023 ANTARABANGSA SILVER

58. ASSESSING STUDENT AWARENESS OF CYBERSECURITY: A MINI SURVEY

Insan Junior Researchers International Conference (IJURECON 2023)

2023 ANTARABANGSA GOLD

59. ENHANCING LEARNING OF TRIANGLES VIA MINECRAFT EDUCATION

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

2023 ANTARABANGSA SILVER

60. PHYSICSCRAFT: EMPOWERING LEARNING THROUGH MINECRAFT EDUCATION

DARULAMAN INTERNATIONAL INNOVATION, COMPETITION & EXHIBITION (DiICE 2023)

2023 ANTARABANGSA GOLD

61. ANUGERAH PENYELIDIK TERBAIK

2022 OTHERS

62. BEST JURY AWARD (VIRTUAL ASIA INNOVATION SHOW 2022)

2022 INTERNATIONAL

63. BEST RESEARCH AWARD

2022 INTERNATIONAL

64. STAF CONTOH (KATEGORI AKADEMIK)

2022 OTHERS

65. THE POTENTIAL OF NANOTECHNOLOGY IN FABRICATING THE SHARPEST SWORD IN WORLD HISTORY

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA GOLD

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

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

2022 ANTARABANGSA SILVER

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

VIRTUAL ASIA INNOVATION SHOW (V-AIS 2022)

2022 ANTARABANGSA SILVER

68. REDUCING EMI POLLUTION BY USING NATURAL SOURCE

World Youth STEM Invention Innovation (WYSII 2022)

2022 KEBANGSAAN SILVER

69. ALTERNATIVE ASSESSMENT FOR ADDITIONAL MATHEMATICS AND ENGLISH SUBJECTS IN SCHOOL

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

2022 ANTARABANGSA SILVER

70. BEST EXTENDED ABSTRACT

2021 INTERNATIONAL

AWARDS/RECOGNITION

71. BEST VIDEO AWARD

2021 INTERNATIONAL

72. MOST IMPACTFUL RESEARCH

2021 INTERNATIONAL

73. MOST PROMISING RESEARCH

2021 INTERNATIONAL

74. INCORPORATION 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

75. 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

76. 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

77. 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

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

International Multidisciplinary Innovation Competition 2021 (IMIC 2021)

2021 ANTARABANGSA GOLD

79. 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

80. 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

81. 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

82. BEST EXTENDED ABSTRACT

2020 INTERNATIONAL

83. BEST EXTENDED ABSTRACT

2020 INTERNATIONAL

84. BEST EXTENDED ABSTRACT

2020 INTERNATIONAL

AWARDS/RECOGNITION

85. BEST EXTENDED ABSTRACT

2020 INTERNATIONAL

86. DESIGNING TANGIBLE 3D PRINTED CATHODE RAY OSCILLOSCOPE IN LEARNING ELECTRONIC FOR PHYSICS IN SECONDARY SCHOOL

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE 2020 (IJURECON 2020)

2020 KEBANGSAAN

87. 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

88. DEPOLYMERIZATION OF POLYEHTLENE TEREPHTHALATE (PET) FROM 3D PRINTED WASTE VIA THERMAL AND ALKALINE HYDROLYSIS

eCARNIVAL RESEARCH INNOVATION (eCRI 2020)

2020 KEBANGSAAN SILVER

89. LEARN HISTORY INTEGRATED WITH CRYPTOGRAPHY THROUGH GAMIFICATION APPROACH

INTERNATIONAL PUTRA INNOCREATIVE CARNIVAL IN TEACHING AND LEARNING 2020

2020 ANTARABANGSA SILVER

90. 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

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

INTERNATIONAL INNOVATION COMPETITION (INNOCOM2020)

2020 ANTARABANGSA SILVER

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

INVENTION, INNOVATION AND DESIGN EXPOSITION 2020 (IIDEX2020)

2020 ANTARABANGSA GOLD

93. 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

94. 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

95. FLEXIBLE PATCH ANTENNA SENSOR FOR PRAYER MOVEMENT DETECTION

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION

2019 KEBANGSAAN BRONZE

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

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION

2019 KEBANGSAAN BRONZE

97. 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

98. 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

AWARDS/RECOGNITION

99. 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

100. MICROWAVE ABSORPTION PERFORMANCE OF HYBRID NANOCOMPOSITES AT HIGHER GIGAHERTZ FREQUENCY

MATERIALS TECHNOLOGY CHALLENGE 2019

2019 UNIVERSITI GOLD

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

MATERIALS TECHNOLOGY CHALLENGE 2019

2019 UNIVERSITI SILVER

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

MATERIALS TECHNOLOGY CHALLENGE 2019

2019 UNIVERSITI SILVER

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

MATERIALS TECHNOLOGY CHALLENGE 2019

2019 UNIVERSITI GOLD

104. MASS MICROGRAPHY AWARD 2016

2016 NATIONAL

105. MASS MICROGRAPHY AWARD

2015 INTERNATIONAL

106. SILVER MEDAL FOR INVENTION/INNOVATION

2012 UNIVERSITY