

**PUSAT
PENGURUSAN
PENYELIDIKAN**

2024 LAPORAN TAHUNAN



UNIVERSITI MALAYSIA PERLIS

Kandungan

KANDUNGAN

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07.

Sorotan Aktiviti Sepanjang
Tahun 2023

VISI

Untuk menjadi pusat pengurusan penyelidikan dengan reputasi antarabangsa yang cemerlang.

“To be an excellent internationally reputable research management center.”

MISI & OBJEKTIF

Memastikan penyelidikan yang optimum di UniMAP dengan menerapkan budaya penyelidikan serta mengurus dana penyelidikan dengan cekap.

“Ensure optimal research in UniMAP by inculcating a research culture as well as managing research funds efficiently.”

01.

Memainkan peranan penting dalam meletakkan penyelidikan dan inovasi sebagai agenda utama di UniMAP melalui pengukuhan budaya penyelidikan dan penyampaian perkhidmatan berkualiti.

“Plays a prominent role in setting research and innovation as the main agenda in UniMAP by strengthening research culture and delivery of quality services.”

02.

Menggalakkan aktiviti penyelidikan dan penerbitan yang berkualiti, relevan, berimpak dan lestari

“Encourages quality, relevant, impactful and sustainable research and publication activities.”

03.

Mengurus dana penyelidikan dan penerbitan dengan cekap dan berusaha untuk meningkatkan dan mempelbagaikan peluang dan sumber dana penyelidikan.

“Manages research and publication funds efficiently and strive to increase and diversify opportunities and sources of research funds.”

04.

Memperkuh jaringan dan rangkaian penyelidikan dengan industri, institusi dan komuniti tempatan dan antarabangsa.

“Strengthens research networking and linkages with local and international industries, institutions and communities.”

KATA ALUAN PENGARAH

Assalamualaikum warahmatullahi wabarakatuh
Salam Ilmu Keihklasan Kecemerlangan
Salam Malaysia Madani

Alhamdulillah, syukur ke hadrat Ilahi kerana dengan izin-Nya Laporan Tahunan Pusat Pengurusan Penyelidikan (RMC) 2024 yang merupakan wadah untuk melaporkan kejayaan dan pencapaian penyelidik UniMAP sepanjang tahun 2024 telah berjaya diterbitkan. Tahniah dan syabas saya ucapkan kepada semua staf RMC yang terlibat menghasilkan Laporan Tahunan ini.

Laporan Tahunan RMC 2024 membawa sedikit kelainan daripada laporan pada tahun-tahun yang lalu. Kali ini kita cuba memberi penghargaan kepada penyelidik UniMAP dengan mempromosi dan menonjolkan wajah-wajah mereka yang telah menyumbang dalam perolehan geran penyelidikan dan penerbitan. Selain itu, sedutan sebahagian daripada pelbagai aktiviti dan program yang telah dilaksanakan oleh RMC sepanjang tahun 2024 juga ada dipaparkan. RMC bersama Pejabat Timbalan Naib Canselor (Penyelidikan & Inovasi) telah menganjurkan satu persidangan mega, iaitu Global Trends in Engineering, Science & Technology Congress (GTEST 2024) yang menghimpunkan 7 persidangan antarabangsa dari 5 fakulti di UniMAP. Kongres kali kedua dianjurkan ini dirasmikan oleh YAB Menteri Pendidikan Tinggi dan menjadi program 'flagship' UniMAP.

Tahun 2024 juga menyaksikan perolehan dana penyelidikan di UniMAP termasuk dana kerajaan, agensi luar, industri dan antarabangsa mencatatkan jumlah perolehan tertinggi sejak penubuhan UniMAP iaitu RM 24.3 juta. Tidak ketinggalan juga, pelbagai projek yang berimpak telah dilaksanakan bagi memberi manfaat kepada komuniti, selari dengan hasrat Kementerian dan juga universiti.

Akhir kata, setinggi-tinggi penghargaan dan tahniah saya ucapkan kepada semua penyelidik UniMAP dan CoE di atas pencapaian masing-masing pada tahun 2024. Semoga pencapaian ini dapat terus ditingkatkan pada tahun 2025 dan akan datang untuk menyumbang kepada peningkatan daya saing industri negara dan meningkatkan kecemerlangan UniMAP di persada antarabangsa.

Wassalam.



PROF. MADYA TS. DR. AYU WAZIRA AZHARI
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CARTA ORGANISASI

(JAN-SEP 2024)



CARTA ORGANISASI

(OKT-DIS 2024)



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**PROF. MADYA TS. DR. AYU WAZIRA
AZHARI**

PENGARAH

Email: ayuwazira@unimap.edu.my



**PROF. MADYA IR. DR. KHAIRUL
SALLEH BASARUDDIN**

TIMBALAN PENGARAH
(STRATEGIK DAN PEMBANGUNAN)

Email: khsalleh@unimap.edu.my



**PROF. MADYA TS. DR. MOHD
AMINUDIN JAMLOS**

TIMBALAN PENGARAH
(PENTADBIRAN DAN PENGURUSAN COE)

Email: mohdaminudin@unimap.edu.my

SENARAI KAKITANGAN



PN. NURUL SHAFINAZ ISMAIL
PENOLONG PENDAFTAR KANAN

Email: shafinaz@unimap.edu.my



PN. ZURAIDA ISMAIL
PENOLONG PENDAFTAR KANAN

Email: zuraidaismail@unimap.edu.my



PN. FAZLINA MD FADZIL
PENOLONG PENDAFTAR KANAN

Email: fazlina@unimap.edu.my



PN. ROZAINI HUSSAIN
SETIAUSAHA PEJABAT KANAN

Email: rozaini@unimap.edu.my

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PN. JANATUL NAIM ZULKEFLI
PENOLONG PEGAWAI TADBIR

Email: janatulnaim@unimap.edu.my



EN. IBRAHIM DIN
PEMBANTU TADBIR KANAN

Email: ibrahim@unimap.edu.my



CIK NURUL SHAFIKAH OTHMAN
PEMBANTU TADBIR KANAN

Email: shafikah@unimap.edu.my



EN. MUHAMMAD FAHMI ABDULLAH
PEMBANTU TADBIR KANAN

Email: mfahmi@unimap.edu.my

SENARAI KAKITANGAN



PN. DIZA EWANA MOHD DRAPI
PEMBANTU TADBIR

Email: diza@unimap.edu.my



PN. SALWA MAT HUSSIN
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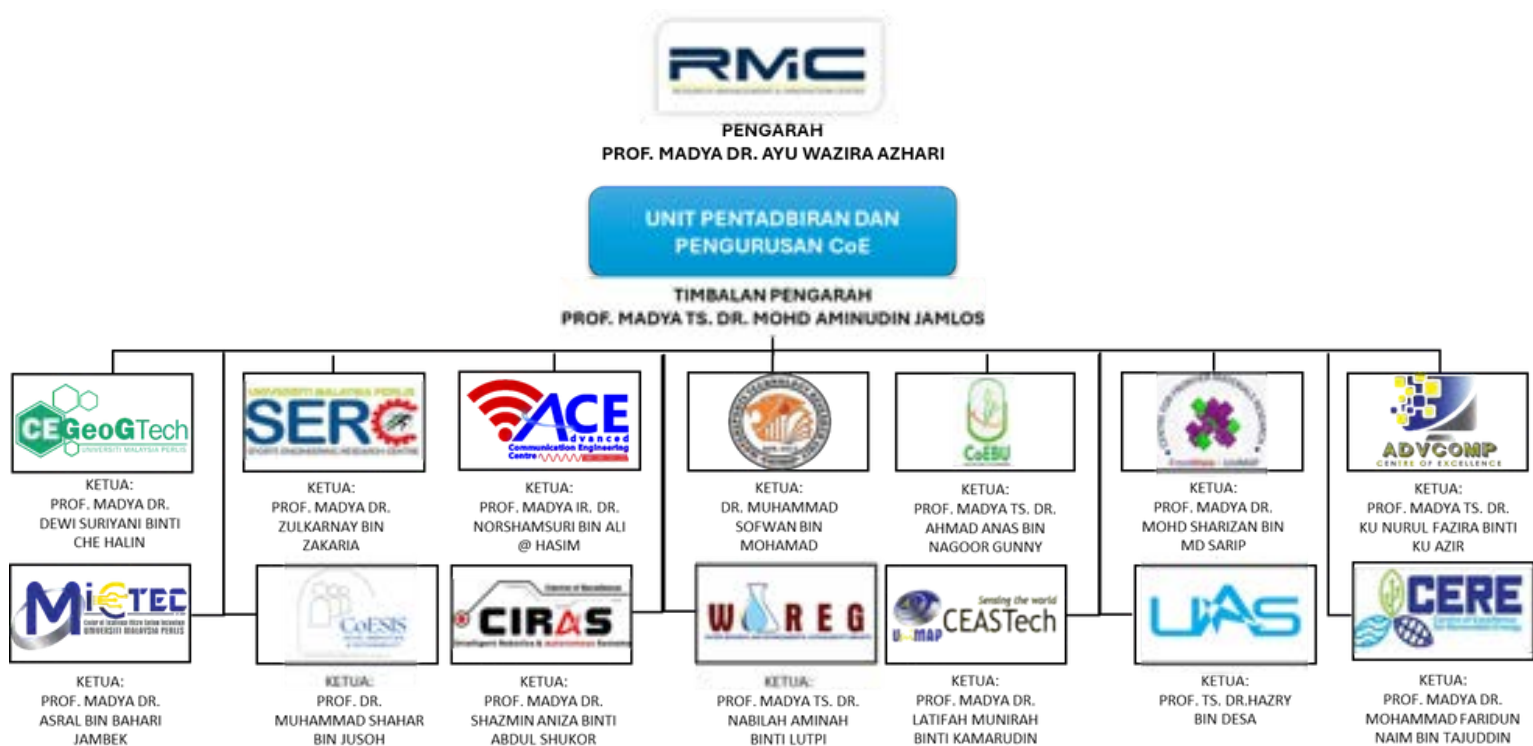
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PUSAT KECEMERLANGAN UniMAP



Penubuhan Pusat Kecemerlangan adalah bertujuan menyediakan platform bagi penyelidik menggabungkan kepakaran dan kemahiran dalam menjalankan pelbagai penyelidikan bagi menyokong struktur akademik dalam menjana modal insan yang dapat menyumbang kepada pembangunan ilmu dan masyarakat. Selain itu, Pusat Kecemerlangan juga dapat meningkatkan daya saing dan budaya penyelidikan di UniMAP, di samping membuka peluang kepada para akademik dari pelbagai fakulti untuk bekerjasama dalam melakukan sesuatu penyelidikan dan inovasi yang merentasi bidang dan berimpak tinggi berdasarkan kelompok kepakaran masing-masing. Semenjak 2012 sehingga 2024, terdapat sebanyak 14 Pusat Kecemerlangan di UniMAP yang merangkumi pelbagai bidang tujuhan yang berbeza dalam mencapai hasrat visi dan misi UniMAP.

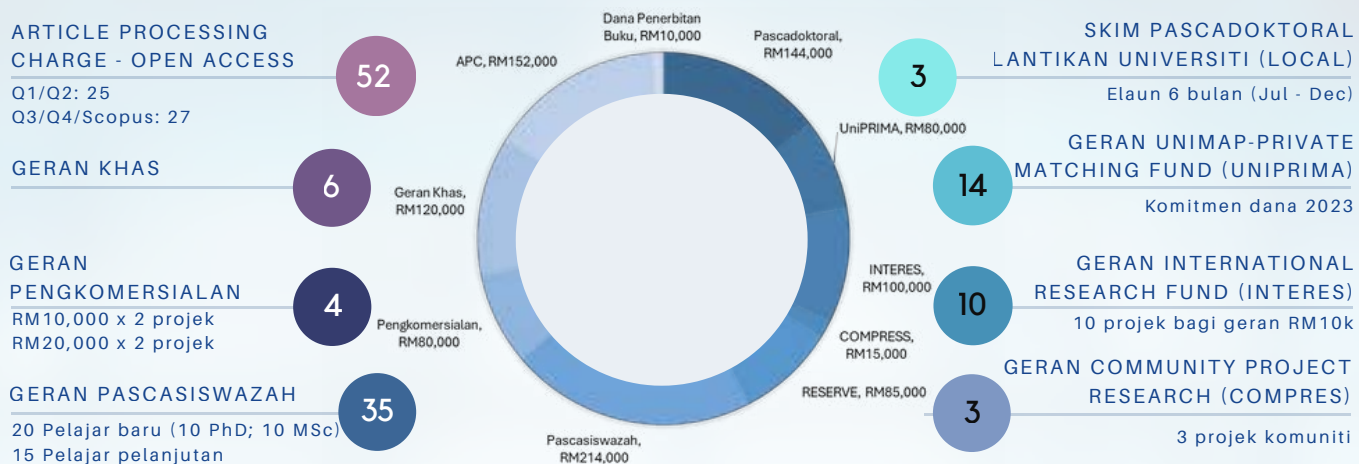
PUSAT KECEMERLANGAN UniMAP



INISIATIF PENYELIDIKAN DAN INOVASI 2024

Inisiatif Penyelidikan dan Inovasi bagi tahun ini telah dirancang dengan mengambil kira pelbagai aspek dan KPI penting dalam Malaysia Research Assessment (MyRA) seperti jumlah penerbitan terindeks, jumlah perolehan dana penyelidikan, jumlah paten dan harta intelek yang didaftarkan, produk yang dikomersialkan dan lain-lain KPI, termasuklah bagi meningkatkan pencapaian penyelidikan dan inovasi dalam pelbagai KPI dan sistem penarafan dan pemeringkatan (rating and ranking) seperti UniMAP 2025, MTUN Excellence, MyMohes, QS World University Ranking, THE World University Ranking dan THE Impact Ranking. Inisiatif ini juga dapat meningkatkan kepakaran dan hasil penyelidikan UniMAP yang menyumbang secara signifikan kepada pembangunan ekonomi melalui ekosistem yang dapat memupuk penemuan intelek, inovasi, penyebaran dan penggunaan ilmu.

Inisiatif Penyelidikan dan Inovasi yang dicadangkan bagi tahun 2024 dan peruntukan dana masing-masing adalah seperti yang disenaraikan di dalam dibawah. Seperti tahun-tahun sebelum ini, tumpuan peruntukan dana bagi inisiatif ini adalah untuk meningkatkan jumlah staf akademik aktif yang terlibat sebagai PI dalam projek penyelidikan dengan peningkatan peruntukan geran-geran melalui dana dalaman. Selain itu, tumpuan juga diberikan kepada peningkatan bilangan penerbitan dalam jurnal berimpak tinggi serta penghasilan modal insan. Peruntukan dana Inisiatif Penyelidikan dan Inovasi tahun 2024 terdiri daripada DUA (2) bahagian, iaitu bagi menyelesaikan komitmen terhadap baki geran-geran dalaman yang belum disalurkan sepenuhnya pada tahun 2023 akibat kekangan kewangan serta bagi membiayai Inisiatif Penyelidikan dan Inovasi yang baharu pada tahun 2024.

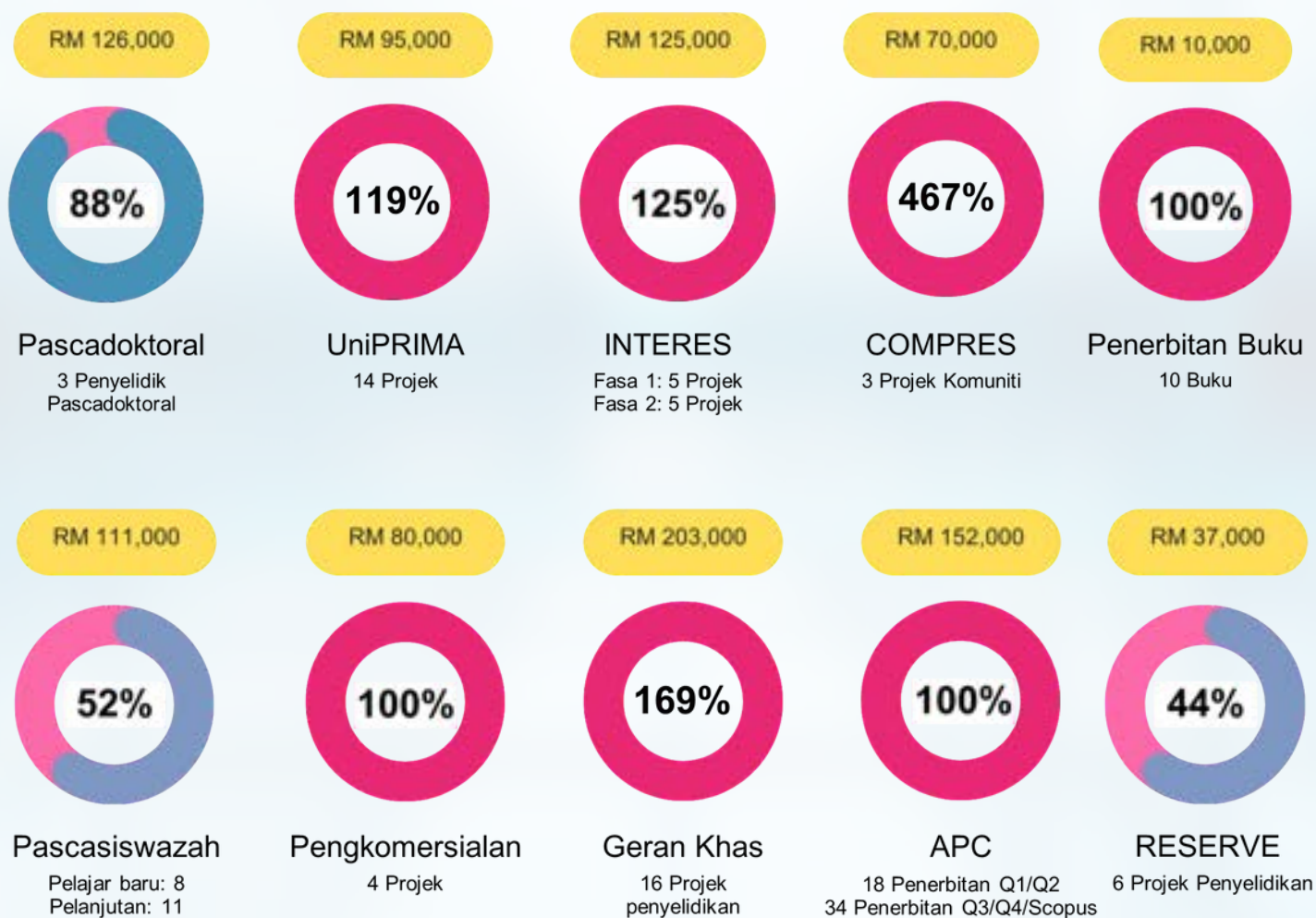


36% daripada jumlah peruntukan dana pada tahun 2024 adalah untuk pembangunan modal insan.

Sebenyak 15% daripada jumlah peruntukan dana pada tahun 2024 digunakan untuk pembiayaan penerbitan jurnal.

75% daripada keseluruhan peruntukan dana pada tahun 2024 adalah untuk penawaran geran-geran penyelidikan.

PERBELANJAAN INISIATIF PENYELIDIKAN DAN INOVASI 2024



PENCAPAIAN MyRA®



MyRA® adalah singkatan bagi Malaysian Research Assessment, atau istilah bahasanya Taksiran Penyelidikan Malaysia. Konsepnya adalah sama seperti Research Assessment Exercise (RAE) yang digunapakai di United Kingdom. MyRA® digunakan untuk menilai kapasiti Institusi Pengajian Tinggi (IPT) di Malaysia untuk mencapai kecemerlangan dalam penyelidikan. MyRA® merupakan instrumen untuk menaksir keupayaan penyelidikan pada peringkat institusi yang mempunyai tiga unsur utama iaitu:

1. Indikator atau kriteria yang menilai IPT;
2. Tanda aras setiap indikator; dan
3. Mekanisme penskoran bagi setiap indikator

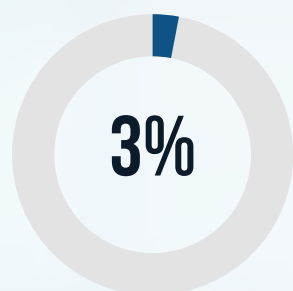
Pada tahun 2020, UniMAP telah berjaya mendapat penarafan 5 Bintang dalam penilaian MyRA berbanding 4 Bintang pada tahun sebelumnya. UniMAP telah berjaya mengekalkan penarafan 5 Bintang dalam penilaian MyRA dalaman untuk tiga tahun berturut-turut iaitu dari 2021 hingga 2023. Ini adalah pencapaian yang amat membanggakan bagi UniMAP.

Sebagai panduan, data 2021 hingga 2023 adalah data yang telah melalui audit dalaman, namun belum diaudit di peringkat KPT.

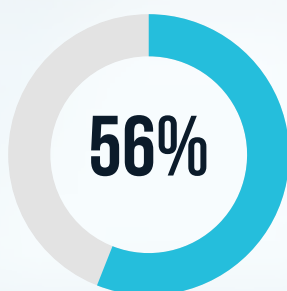
PENCAPAIAN GERAN PENYELIDIKAN



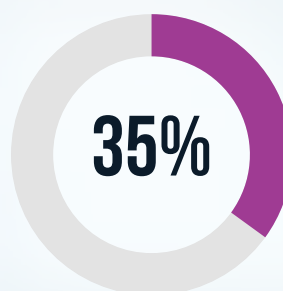
Sepanjang tahun 2024, penyelidik UniMAP telah berjaya memperoleh sebanyak **273 geran penyelidikan** dengan dana sejumlah **RM24,317,869.40** yang merupakan jumlah dana tertinggi pernah diperolehi sejak penubuhan UniMAP.



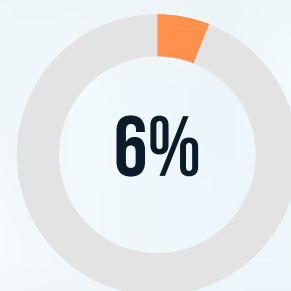
Geran Penyelidikan
Dalaman



Geran Agensi
Kerajaan



Geran Industri

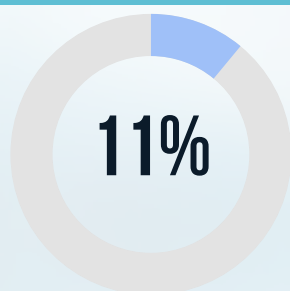


Geran Antarabangsa

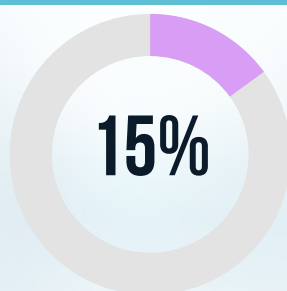
Geran Penyelidikan Dalam

Geran penyelidikan dalaman unimap merupakan geran dalaman yang ditawarkan oleh unimap bagi membantu meningkatkan aktiviti penyelidikan para penyelidik di unimap. Antara geran-geran dalaman yang ditawarkan ialah:

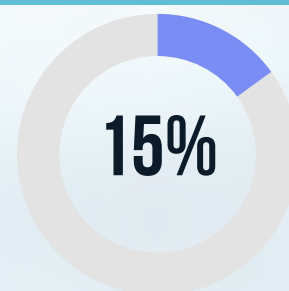
- Geran Penyelidikan Khas
- Geran Pasca Kedoktoran
- Geran Pascasiswazah
- International research fund (INTERES)
- Geran Pengkomersialan
- Projek Komuniti Tertumpu UniMAP for Society @ Perlis
- Resources and Services for Research (RESERVE)
- Geran Penyelidikan Kerjasama Strategik MTUN
- Collaborative research grant (CRG)



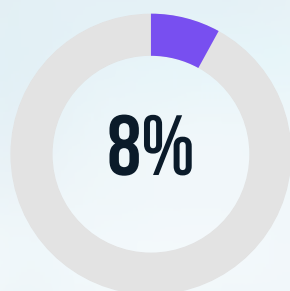
Geran Penyelidikan Khas



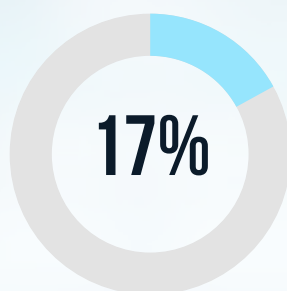
Geran Pasca Kedoktoran



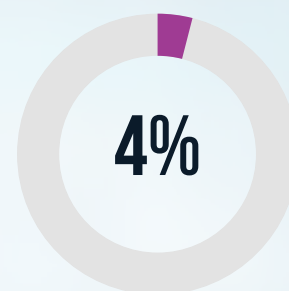
Geran Pascasiswazah



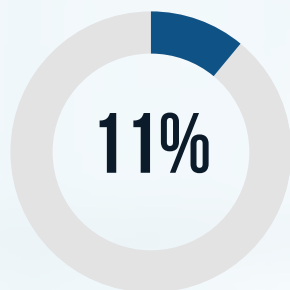
Resources & Services for Research (RESERVE)



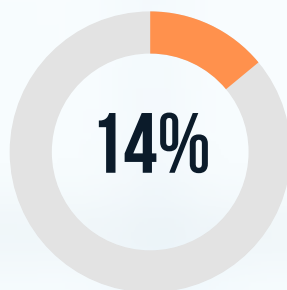
International research fund (INTERES)



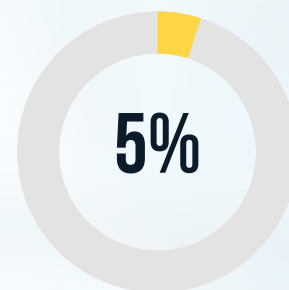
Projek Komuniti Tertumpu UniMAP for Society @ Perlis



Geran Pengkomersialan



Geran Penyelidikan Kerjasama Strategik MTUN



Collaborative research grant (CRG)

Geran Penyelidikan Khas



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**DR. NORIZAN MOHAMED
NAWAWI**

Visible Light Communication with
Adaptive Encoder Decoder (ADE)-
OCDMA Model

FKT ELEKTRONIK
RM12,000.00

INTERES: International Research Fund - Dana Universiti



**DR. NUR HAFIZAH
GHAZALI**

Development Of Smart Greenhouse
Management System Using IOT & MI

FKT ELEKTRONIK

RM15,000.00



**IR. ZAHARI AWANG
AHMAD**

Enhancing Mango Industry Quality Control: An
IOT-Integrated Fruit Inspection and Grading
System with Neural Network Architecture

FKT ELEKTRONIK

RM15,000.00



**PROF. MADYA TS. DR.
NOORMAIZATUL AKMAR ISHAK**

Exploring Free-to-Air Tv Engagement:
Patterns, Preferences, and Prospects of
Educational Television on TVET in Northern
Malaysia and Yogyakarta Special District

FPK

RM10,000.00



DR. FARAH FAIQAH FAZIAL

Smart Film from Natural
Biopolymer for Monitoring Food
Quality

FKT KIMIA

RM15,000.00

Geran Pengkomersialan



**PROF. MADYA DR.
LATIFAH MUNIRAH
KAMARUDIN**

AIGIS River Monitoring Solution:
Performance Review and
Commercial Prospects

FKT ELEKTRONIK

RM20,000.00



**PROF. MADYA DR. SYED
MUHAMMAD MAMDUH
SYED ZAKARIA**

Development of Web-based
Conference Management
Platform

FKT ELEKTRONIK

RM20,000.00



**PROF. MADYA IR. TS. DR.
MOHD RASHIDI CHE
BESON**

VLC Utilize Adaptive Multi-Carrier
Modulation (AMCM) for Optical
Wireless Communication (OWC)

FKT ELEKTRONIK

RM20,000.00

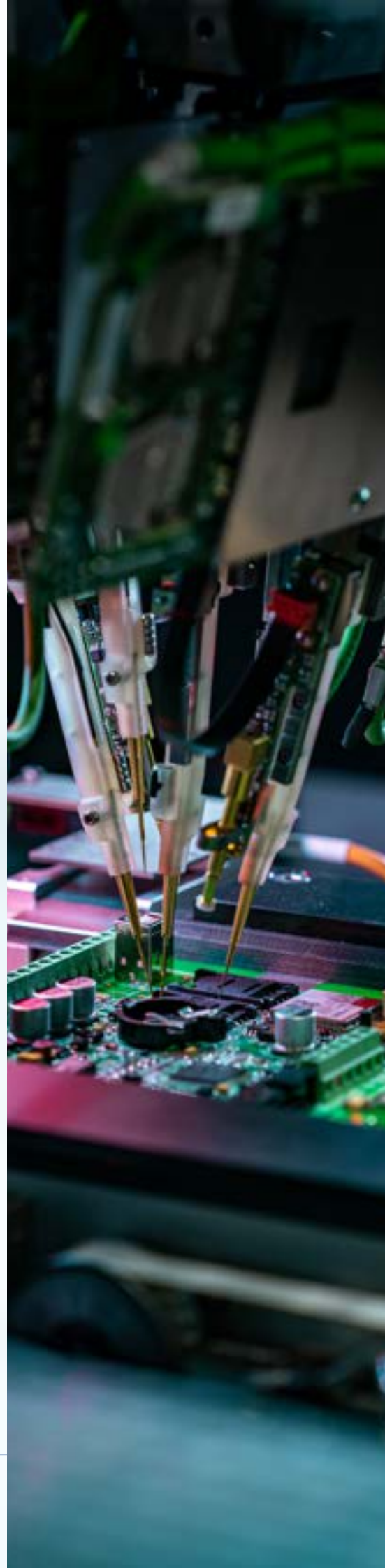


**DR. NOOR SHAZLIANA
AIZEE ABIDIN**

High Fiber Value Added Rice
Noodle Incorporated with Mango
Flour Utilizing Hydrocolloid

FKT KIMIA

RM20,000.00



Geran Penyelidikan Kerjasama Strategik MTUN



**DR. SITI HAWA
MOHAMED SALLEH**

Advancing Mg Alloys:
Pioneering Sustainable and
Biocompatible Orthopedic
Implants

FKT KIMIA

RM40,000.00



**DR. HASSRIZAL HASSAN
BASRI**

Data-Driven Tools Based On Safe
Experimentation Dynamics
Algorithm for Modelling and
Control of Double - Pendulum
Overhead Crane with Distributed -
Mass Payload

FKT ELEKTRIK

RM20,000.00



**DR. WAN KHAIRUNNISA
WAN RAMLI**

Novel Des - Functionalized Hybrid Nitrogen -
Doped Carbon Quantum Dots - Graphene
Nanoplatelets (N-CQDS-GNPS) for Efficient Co2
Adsorption

FKT KIMIA

RM20,000.00



**TS. DR. WAN AZANI
WAN MUSTAFA**

Developing Intelligent Decision
Support Systems For Breast Cancer
Detection

FKT ELEKTRIK

RM20,000.00



CRG: Collaborative Research Grant



DR. MASITAH HASAN

Mineral Carbonation Reaction
Mechanism of Heavy Metal and
Bicarbonate from CO_2 Absorption Using
Hybrid Calcium Carbonate and Calcium
Hydroxide Adsorbent

FKT AWAM

RM20,000.00



DR. SALINA MOHD ASI

Design and Development of
Cognitive Ai Chatbot for
Academic Management in
Higher Education Institution

FKT ELEKTRONIK

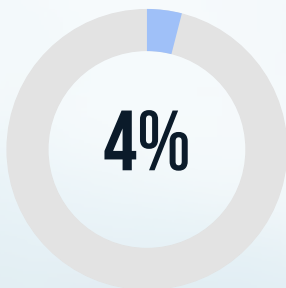
RM20,000.00



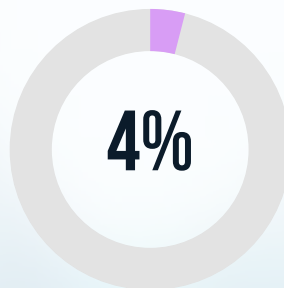
Geran Agensi Kerajaan

Geran agensi kerajaan merupakan geran penyelidikan yang ditawarkan oleh pelbagai agensi kerajaan termasuk Kementerian Pengajian Tinggi (KPT), Kerajaan Negeri dan lain-lain agensi kerajaan termasuk Syarikat Berkaitan Kerajaan (GLC). Antara geran-geran yang ditawarkan ialah:

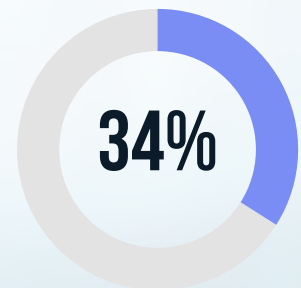
- Geran UniMADANI
- Geran Penyelidikan PRGS
- Geran Penyelidikan FRGS
- Geran Penyelidikan FRGS-EC
- Transdisiplinari Statetik dan Berfokus (TRGS-SF)
- Industry Matching Programme (IMaP)
- Geran Faizuddin Centre of Educational Excellence (FCoEE)
- Lain-lain Geran Agensi Kerajaan



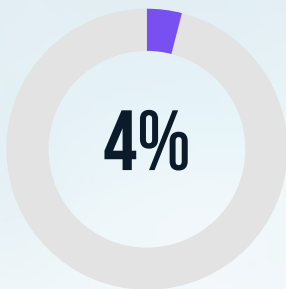
Geran Pendayaan Komuniti
Universiti Awam (UniMADANI)



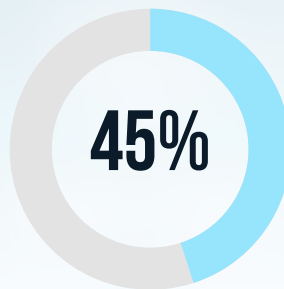
Prototype Research Grant
Scheme (PRGS)



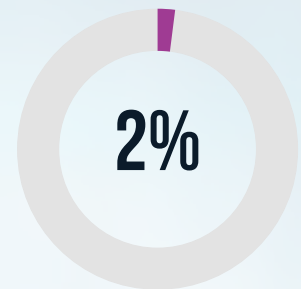
Fundamental Research
Grant Scheme (FRGS)



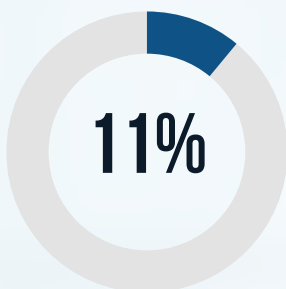
Fundamental Research Grant
Scheme - Early Career (FRGS-
EC)



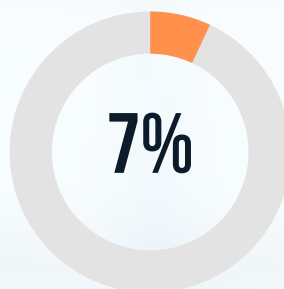
Industry Matching
Programme (IMaP)



Transdisiplinari Statetik dan
Berfokus (TRGS-SF)



Geran Faizuddin Centre of
Educational Excellence
(FCoEE)



Lain-lain agensi kerajaan

Geran UniMADANI



**PROF. MADYA DR. HANUM
HASSAN**

Program Inovasi Penghasilan Bongkah
Cendawan

FPK

RM100,000.00



**PROF. MADYA TS. DR. IRNIS
AZURA ZAKARYA**

Produk Sisa Organik Komuniti Berasaskan
Proses Bersepadu Di Felda Chuping, Perlis

FKT AWAM

RM90,000.00



**DR. NOOR SHAZLIANA AIZEE
ABIDIN**

Pemprosesan Mangga Harumanis Bagi
Memanjangkan Jangka Hayat Secara Sejuk
Beku Bersama Komuniti Pertubuhan
Pemulihan Dalam Komuniti Anak Istimewa
Negeri Perlis

FKT KIMIA

RM130,000.00



**PROF. MADYA DR. MUHAMAD
KHAIRUL ALI HASSAN**

Inovasi Penghasilan Sarang Lebah Kelulut
Tiruan Dengan Sistem Pemantauan
Berasaskan Iot

FKT ELEKTRIK

RM180,000.00

Geran Penyelidikan PRGS



**PROF. MADYA TS. DR. ZULKIFLI
HUSIN**

Development of a Non-Destructive
Automated Intelligent Unprocessed Food
Quality Assessment System Prototype

FKT ELEKTRONIK

RM176,000.00



**PROF. MADYA IR. TS. DR. MOHD
RASHIDI CHE BESON**

Vehicle-to-Everything (V2X) in Intelligent
Transportation System for Autonomous
Vehicle Based on Visible Light
Communication

FKT ELEKTRONIK

RM199,060.00



**PROF. MADYA DR. MOHD NAJIB MOHD
YASIN**

Field Validation of Reconfigurable Intelligent
Surfaces for 6G Wireless Communication

FKT ELEKTRONIK

RM136,000.00



Geran Penyelidikan FRGS



DR. ILYA JOOHARI

Compatibility Mechanism of Recycled Carbon Black in Hybrid Polymer-Modified Bitumen for Asphalt Pavement

FKT AWAM

RM106,400.00



DR. HAZIRAH PENGIRAN

Kinetics Mechanism of Cellulose Nanofiber as Nanocarrier for Bacillus Thuringiensis in Controlling Aedes Larvae

FKT AWAM

RM149,300.00



PROF. DR. ONG SOON AN

Mechanism Study on Co-Metabolic Bioremediation Of Phenolic Compounds Using Up-Flow Constructed Wetland-Microbial Fuel Cell with Multiple Anodes and Cathodes Configurations for Wastewater Treatment and Electricity Generation

FKT AWAM

RM128,500.00



DR. SUKHAIRI SUDIN

Enhancing Time Series Cycling Performance Prediction through a New Hybrid Peephole-GRU Predictor

FKT ELEKTRIK

RM74,600.00



DR. NUR ADYANI MOHD AFFENDI

Efficiency Improvement of a Dual Band Near Field using U-shape Resonator and Geometric Shape Defected Ground Structures for Wireless Power Transfer Applications

FKT ELEKTRIK

RM86,700.00



HANDY ALI MUNIR

Feasibility Study of Low Frequency Electromagnetic Field Applications in Multiple Layers Tissue Imaging using Magnetic Induction Tomography Principle

FKT ELEKTRIK

RM139,800.00



DR. MOHD ZAMRI ZAHIR AHMAD

A Novel Control Mechanism for Phase Transition in Sand Cat Swarm Optimization Algorithm for Combinatorial Test Suite Generation

FKT ELEKTRONIK

RM124,150.00



DR. HARIYANTI MOHD SALEH

Formulation of an Optimum Deep Learning CNN Model for Failure Classification and Root Cause Prediction in Semiconductor Manufacturing

FKT ELEKTRONIK

RM87,450.00



PROF. MADYA DR. NAZAHAH MUSTAFA

Modification of Semantic Segmentation Convolutional Neural Networks Architecture for Enhancement of White Matter Hyperintensities Detection in The Ageing Brain

FKT ELEKTRONIK

RM131,900.00

Geran Penyelidikan FRGS

**DR. HASNIZAH ARIS**

Enhancing Sensitivity in Flexible MEMS Capacitive Pressure Sensors: A Numerical Analysis Approach

FKT ELEKTRONIK

RM59,200.00

**TS. DR. NUR HIDAYAH RAMLI**

Characterizing of Electrical and Mechanical Properties of CoCrFeMnNi-based High Entropy Alloy (HEA) Via Powder Metallurgy Route for Advancing 6G Antenna Performances

FKT ELEKTRONIK

RM188,400.00

**MAZLEE MAZALAN**

Unravelling the Polymeric Acoustic Wave Mechanism for Enhancing Human Mesenchymal Stem Cells Chondrocytes Differentiation Ability

FKT ELEKTRONIK

RM109,400.00

**DR. NOR HIDAWATI ELIAS**

Elucidating the Kinetics Mechanism of Black Soldier Fly Larvae (BSFL) Lipid Extraction and its Physico-chemical Characteristics for Bio-lubricant Production

FKT KIMIA

RM108,200.00

**PROF. MADYA DR. HUZAIRY HASSAN**

Elucidating Electron Transfer Mechanism by Novel Biofilm Synergy for Enhanced Simultaneous Electrogenicity and Recalcitrant Contaminant Degradation

FKT KIMIA

RM194,204.00

**DR. MUHAMMAD FAIQ ABDULLAH**

Elucidating Cellulose Dissolution Mechanism of Empty Fruit Bunches by Deep Eutectic Solvents for Enhancement of Tissue Scaffold Stiffness

FKT KIMIA

RM177,100.00

**DR. MOHD ASRAF MOHD ZAINUDIN**

Elucidation of Enriched Harumanis Mango Peel's Extracted Using Dielectric Heating Method as a Valorization Strategy

FKT KIMIA

RM125,320.00

**PROF. MADYA IR. DR. MOHD ARIF ANUAR MOHD SALLEH**

Correlation of Intermetallic Precipitations To the Grain Refinement, Kinetic Growth of Microstructures and Solder Joint Strength of In-Sn-Ag low-Temperature Solders

FKT KIMIA

RM148,300.00

**DR. AZALINA MOHAMED NASIR**

Interaction Mechanisms of Template-Functional Monomers in A Surface-Imprinted for Lactose Adsorption, Encompassing Both Computational and Experimental Approaches

FKT KIMIA

RM155,800.00

Geran Penyelidikan FRGS



**PROF. MADYA DR. NOOR
HASYIERAH MOHD SALLEH**

Elucidating The Kinetics and Metabolism of Myco-Degradation by Pleurotus SPP in LDPE- Sawdust Substrate for Sustainable Plastic Waste Management

FKT KIMIA

RM119,200.00



**DR. SHARIFAH SHAHNAZ
SYED BAKAR**

Investigation on the Formulation and Mechanism of Functional PVDF:PSU Filled MWCNT Composite Membrane via Electrospinning Method

FKT KIMIA

RM145,800.00



**DR. KHADIJAH HANIM
ABDUL RAHMAN**

Elucidating the Extracellular Enzyme Profile of Pleurotus pulmonarius Cultivated on Spent Mushroom Compost Formulated Substrate through Proteomics Approach

FKT KIMIA

RM109,200.00



**PROF. MADYA IR. DR. YEOH
CHEOW KEAT**

Understanding The Distribution of Mixed Carbon and Oxide Fillers to Control PLA Composite Properties in 3D Printing Using Monte Carlo Modeling

FKT KIMIA

RM133,800.00



DR. MOHD HAFIZ ZAINOL

Elucidation of the Reaction Mechanism of Self-Healing Natural Rubber Based on Reversible Metal Thiolate Ionic Crosslink Network Towards Recycling and Reprocessing Ability

FKT KIMIA

RM111,000.00



**TS. DR. NOR ZIAAZMIN
YAHAYA**

Exploring The Effects Of Magnetic Field Parameters On Metal Flow Behavior In Additive Manufacturing Using Magnetohydrodynamic Method

FKT MEKANIKA

RM73,200.00



**PROF. MADYA TS. DR.
TAN WEI HONG**

Identifying the Frequency Bandwidth of Sound Transmission Loss for Microperforated-Natural Fibre Sandwich Structure Composite

FKT MEKANIKA

RM131,500.00



**PROF. MADYA IR. DR.
FAUZIAH MAT**

Modeling of Implantation Stability Mechanism for Pauwels Type III Femoral Neck Fracture

FKT MEKANIKA

RM145,800.00



**PROF. MADYA IR. DR. ZURADZMAN
MOHAMAD RAZLAN**

Elucidating Optimal Ambient Thermal Characteristics to Enhance Cycle-Life Efficiency of Lithium-Ion Batteries in Precision Thermal Management System at Super Fast Charging Conditions

FKT MEKANIKA

RM129,540.00

Geran Penyelidikan FRGS



**PROF. MADYA DR. SUHAIMI
ILLIAS**

Elucidating the Critical Heat Flux and Leidenfrost Transition Temperature On Superheated Alloy Surfaces Via High Speed Video Camera

FKT MEKANIKA
RM78,550.00



TS. DR. TAN WEE CHOON

A Correlation Study Between Microstructure and Current-Voltage Characteristic For A Solid Oxide Fuel Cell Using Quasi-3D Modelling

FKT MEKANIKA
RM89,649.00



**DR. MUHAMMAD HASNULHADI
MOHAMMAD JAAFAR**

Elucidation of Variation in Formability Behaviour and Strength: Establishing Core Principles in Advanced High Strength Steel (AHSS) Tailored Blanks Generated by High-pressure Forming

FKT MEKANIKA
RM147,800.00



**DR. AZISYAHIRAH
AZIZAN**

Damage Mechanism-based Fatigue Model of Orthotropic Carbon Fiber-reinforced Polymer (CFRP) Composite Lamina

FKT MEKANIKA
RM88,100.00



DR. ALIDA ABDULLAH

Solidification Mechanism and Gelation Alkali Solution Towards Granite Ash Based Geopolymer as Cementitious Materials

FKT MEKANIKA
RM81,120.00



**PROF. MADYA TS. DR. MOHD
ZAMZURI MOHAMMAD ZAIN**

Explication of Aluminum Impurity Behavior for Electron Mobility and Carrier Concentration Enhancement in Electrodeposited Inter-Stacked Copper Oxide Layers for Photovoltaic Applications

FKT MEKANIKA
RM145,800.00



DR. MUHAMMAD AHMAR ALI

Developing an Integrated Financial Management Practices Framework for Mosques in Malaysia

FPK
RM88,640.00



**PROF. MADYA WAN SALLHA
YUSOFF**

A Sustainability Metrics Model for Cultivating Boardroom Integrated Thinking to Optimize Value Creation in Malaysian MNCs: Stakeholder Capitalism Approach

FPK
RM123,050.00



DR. NUR QURRATUL' AINI ISMAIL

Model Pendigitalan Sistem Perkhidmatan Kesihatan Primer MADANI

FPK
RM102,700.00

Geran Penyelidikan FRGS



DR. SURIANI SUKRI

Technology Strategy Framework of
Technology Adoption for
Manufacturing Companies
Sustainability by employing Lawshe's
Method

FPK

RM111,608.00



**DR. MOHAMAD FARIS
MOHAMAD FATHIL**

Elucidating Silver Nanoparticles
Electrodeposited Silicon Nanowires
Interaction with Polystyrene Nanoplastic
in Water via Electrical Conductance

INEE

RM112,700.00



**PROF. MADYA DR. WAN MOHD
KHAIRY ADLY WAN ZAIMI**

A Set of Novel Governing Equations in
Nanofluid Incorporating Suction, Chemical
Reaction, Thermal Radiation, Slip and
Convective Conditions for Engineering
Applications

IMK

RM70,200.00

Geran Penyelidikan FRGS-EC



**DR. FATMAWATI ABDUL
WAHID**

Elucidating the Pozzolanic Reactivity
and Durability of Mortars with Coconut
Shell Ash As 3D Printing Concrete Ink

FKT AWAM

RM30,000.00



**DR. NOR AMIRAH ABU
SEMAN @ HAJI AHMAD**

Elucidate the interaction of Integrated
Circuit (IC) package underfill material
parameters on the flow characteristics
using computational analysis

FKT AWAM

RM21,400.00



DR. LIEW HUI FANG

Formulation of PSO-TVIW DNNs Model to
Improve Convergence Speed in Resonant
Frequency for Flexural Ultrasonic
Transducer

FKT ELEKTRIK

RM30,000.00



**DR. KUMUTHAWATHE
A/P ANANDA RAO**

Optimization of Voltage Balancing Circuit in
Hybrid Energy Storage System (HESS)
Topology using Particle Swarm
Optimization for Electric Vehicle Application

FKT ELEKTRIK

RM28,200.00



**DR. AHMAD SHAKAFF ALI
YEON**

Real-time Hybrid Ultra Wide Band
Localization Method for Enhanced Resource
Tracking in Complex Construction
Environment

FKT ELEKTRIK

RM30,000.00



**DR. ARIF MAWARDI
ISMAL @ SUHAIMEE**

Unveiling Metasurface-Based Polarization
Manipulation for Polarization
Synchronization in Wireless
Communication Systems

FKT ELEKTRONIK

RM30,000.00

Geran Penyelidikan FRGS-EC



DR. ISZAIDY ISMAIL

A Novel Active Learning Approach for Interactive Annotation of Large- scale Dataset for Underwater Image Intepretation

FKT ELEKTRONIK

RM24,500.00



DR. MOHD ILMAN JAIS

New Optimized of Hybrid Inductive and Capacitive Wireless Power Transfer (WPT) using Fuzzy Inferences Algorithm for Smart Rechargeable Applications

FKT ELEKTRONIK

RM25,600.00



DR. OUNG QI WEI

Formulation of PSO-TVIW DNNs Model to Improve Convergence Speed in Resonant Frequency for Flexural Ultrasonic Transducer

FKT ELEKTRONIK

RM30,000.00



**TS. DR. RASHIDAH CHE
YOB**

Dielectric Resonator Matching Model for Stability Performances of Microwave Amplifier in a 5G- Satellite Communication System

FKT ELEKTRONIK

RM30,000.00



**DR. VIJAYASARVESWARI A/P
VEERAPERUMAL**

Formulation of Enhanced Automatic Coral Reef Characterization Model using Feature Extraction and Machine Learning

FKT ELEKTRONIK

RM21,310.00



**DR. AHMAD ASHRAF ABDUL
HALIM**

Enhanced Sewing Training-Based Optimization for T-Way Test Suite Generation Strategy

FKT ELEKTRONIK

RM30,000.00

Geran Penyelidikan FRGS-EC



DR. FARAH FAIQAH FAZIAL

Elucidation of Nano emulsified
Andrographis Paniculata's Role in
Modulating Bioactivity of Fruit Coatings

FKT KIMIA
RM30,000.00



DR. RUMAISA NORDIN

Elucidation of the Effects of Superheated
Steam Treatment on Quality
Characteristics of Parboiled Rice: Insights
from Starch Structure Changes

FKT KIMIA
RM29,950.00



DR. IFFAH NADHIRA MADZUKI

Correlation Between Phenolic Compounds
With Antioxidant And Antimicrobial
Activities In Pleurotus Pulmonarius Spent
Mushroom Substrate

FKT KIMIA
RM29,550.00



DR. AMIRA MOHD NASIB

Elucidating the Chemical Separations
Mechanism of Titanium Dioxide Assisted
Polylactic Acid Membrane Fabricated from
Green Solvents for Dye Removal Process

FKT KIMIA
RM29,490.00



DR. ANIS NADHIRAH ISMAIL

Sustainable Ferrosilicon Production: A
Comprehensive Study on The Feasibility of
Agricultural Residues as Carbon Reductant

FKT KIMIA
RM23,179.00



**TS. DR. MOHD UZAIR BIN
MOHD ROSLI**

Elucidate the interaction of Integrated
Circuit (IC) package underfill material
parameters on the flow characteristics
using computational analysis

FKT MEKANIKA
RM23,500.00

Geran Penyelidikan FRGS-EC



**DR. NOR AMALINA
MUHAYUDIN**

Effect of Fused Deposition Modeling (FDM) Process Parameters on the Biomechanical Properties and Structural Efficacy of Scaffold Bone Regeneration

FKT MEKANIKA

RM30,000.00



**IR. TS. DR. MOHD AL-HAFIZ
MOHD NAWI**

Elucidating the Dynamic Behavior of Methane-Air Combustion in Meso-Scale Frustum Vortex Combustor

FKT MEKANIKA

RM30,000.00



**DR. NOORAZEELA ZAINOL
ABIDIN**

Exploring The Nexus of Multidimensional Child's Poverty, Parental Involvement and Family Well-Being as Drivers of Child Academic Success

FPK

RM12,000.00



**TS. DR. MOHD
NOORULFAKHRI YAACOB**

Enhancing Cybersecurity Measures through Advanced Keystroke Dynamics Analysis in Education System

FPK

RM12,000.00

Geran IMaP - Dana KPT⁴⁰



**PROF. MADYA IR. DR. KHAIRUL
SALLEH BASARUDDIN**

Autonomous Robotic Loading-Unloading
and Sampling Arm System (ATLAS:
Autonomous Truck & Loader Arm System)
for SD Guthrie Oils Refinery

FKT MEKANIKAL

RM309,200.00



**PROF. MADYA IR. DR.
ZURADZMAN MOHAMAD
RAZLAN**

Smart Assist Mobile Pesticide Spraying,
Fertilization and Harvesting System for
Pineapple (NanasCare)

FKT MEKANIKAL

RM195,500.00



**DR. MUHAMMAD SOFWAN
MOHAMAD**

Lean Smart-Controlled Retractable Car
Painting Oven (MoVen: Moveable Oven)

FKT MEKANIKAL

RM168,000.00



**PROF. MADYA IR. TS. DR.
NASRUL AMRI MOHD AMIN**

An Energy Efficient Water Quality Monitoring
and Control System with Smart Embedded
Uninterrupted Power Supply to Improve
Productivity of Tilapia Fish Farming

FKT MEKANIKAL

RM176,600.00



**PROF. MADYA IR. TS. DR.
KHAIRUDDIN MD ISA**

Upscaling and Testing a Novel Wastewater
Treatment System Made of Confiscated
Cigarettes at the Palm Oil Mill Effluent
(POME) Ponds Under a Sensory System

FKT KIMIA

RM190,000.00



**PROF. MADYA DR.
FARIZUL HAFIZ KASIM**

SmartHarum: Smart Method for Harumanis
Management to Increase the Production
Yield

FKT KIMIA

RM64,868.00



**PROF. MADYA DR. ROZMIE
RAZIF OTHMAN**

Design and Development of Testing Tool
For Solar Harvesting Application

FKT ELETRONIK

RM176,600.00



**PROF. MADYA DR. MUHAMAD
KHAIRUL ALI HASSAN**

E-Nose Application for Emission Detection:
Managing Methane and Carbon in Paddy
Farming

FKT ELEKTRIK

RM142,818.00



**PROF. MADYA TS. DR. FATHINUL
SYAHIR AHMAD SA'AD**

Ai-Driven Pest Detection for Enhanced
Integrated Pest Management

FKT ELEKTRIK

RM171,222.00

Geran IMaP - Dana KPT



**PROF. MADYA DR. MOHD
NAZREE DERMAN**

Development of Electrochemical
Process of Palm Oil Mill Effluent Using
Designed Stainless Steel Electrode

FKT MEKANIKA

RM250,000.00



**PROF. MADYA DR. LATIFAH
MUNIRAH KAMARUDIN**

SP-MDTrack: Self-Powered Tracker with AI
Predictive Maintenance for Medical Equipment

FKT ELEKTRONIK

RM273,000.00



**PROF. MADYA DR. MUHAMMAD
IMRAN AHMAD**

Heavy Duty Pesticide and Fertilizer
Spraying Robot

FKT ELEKTRONIK

RM133,000.00



**PROF. MADYA IR. TS. DR.
MOHD RASHIDI CHE BESON**

Fast Optical Distribution Network
(FastODN) Solution for Telco Operators
Rolling out in Fiber-to-the-Home (FTTH)
Applications

FKT ELEKTRONIK

RM185,627.00



**PROF. MADYA IR. DR.
NORSHAMSURI ALI@HASIM**

Development of a Field Prototype Distributed
Acoustic Sensing for Use in Fiber Optics
Perimeter Security Systems

FKT ELEKTRONIK

RM197,764.00



**PROF. MADYA DR.
SHUHaida YAHUD**

Enhancing Athletic Real-Time Performance
Monitoring Through Graphene-based
Wearable Sensor Integration with Sport
Analytics Software

FKT ELEKTRONIK

RM288,000.00



DR. AZRALMUKMIN AZMI

Real-Time Monitoring of Solar Farms Using
Automated I-V Curve Tracing

FKT ELEKTRIK

RM127,365.00



**PROF. IR. TS. DR.
MUZAMIR ISA**

Sustainable Electrification Of Rural
Homestays: Implementing A Hybrid Solar
Photovoltaic Systems To Power 10 Off-
Grid Houses

FKT ELEKTRIK

RM150,000.00



**PROF. IR. TS. DR. SHAHRIMAN
ABU BAKAR**

Smart Assist Mobile and Lightweight
Robotic Ev Palm Fruit Harvester (Sawitbot)
For krb(Malaysia) Sdn. Bhd

FKT MEKANIKA

RM129,000.00

Geran IMaP - Dana KPT⁴²



PROF. MADYA DR. SYED MUHAMMAD MAMDUH SYED ZAKARIA

Development of AI-driven High Mast Lighting Monitoring and Control System for ESG Compliant ICD

FKT ELEKTRONIK

RM272,000.00



PROF. MADYA DR. AMMAR ZAKARIA

Development of a Real-Time 3D Localization System using UWB Technology

FKT ELEKTRIK

RM297,000.00



DR. LATIFAH MOHAMED

Smart Safety Helmet for Enhanced Connectivity and Safety in Industrial Workplaces

FKT ELEKTRIK

RM212,100.00



PROF. MADYA IR. DR. MOHD ARIF ANUAR MOHD SALLEH

The Production of Robust Sn-0.7Cu-1.5Bi Fluxed Cored Solder Wire

FKT KIMIA

RM269,000.00



DR. RAJA ABDULLAH RAJA AHMAD

Smart Venturi Fertilizer Injection System

FKT ELEKTRONIK

RM108,000.00



IR. DR. MARNI AZIRA MARKOM

Predictive Modeling of NPK Nutrient Levels and Organic Fertilizer Impact In Soil For Optimal White Turmeric Cultivation Using Machine Learning

FKT ELEKTRONIK

RM136,834.00



PROF. MADYA TS. DR. WONG YEE SHIAN

Application Of Packed Column Wet Scrubber In Desulfurization Of Biogas Generated From Anaerobic Digestion Of Palm Oil Mill Effluent (POME)

FKT AWAM

RM238,203.00



PROF. IR. TS. DR. HAZRY DESA

Optimization Of Lightweight Sandwich Structures for Enhanced Strength and Durability in Airliner Boom and Wing Design.

FKT ELEKTRIK

RM255,000.00



PROF. MADYA DR. KAMARULZAMAN KAMARUDIN

Building Management System For Sustainable Energy Management

FKT ELEKTRIK

RM194,090.00

Geran IMaP - Dana KPT⁴³



**PROF. MADYA IR. DR.
MUZAMMIL JUSOH**

Ai-Powered Smart Controller (Aipc) For
Optimizing Cool Fridge System
Performance

FKT ELEKTRONIK

RM82,725.00



**PROF. MADYA DR. AZIAN
AZAMIMI ABDULLAH**

Development of a Real-Time 3D
Localization System using UWB
Technology

FKT ELEKTRONIK

RM214,520.00



**DR. MUHAMMAD FIRDAUS
ABDUL MUTTALIB**

Smart Safety Helmet for Enhanced
Connectivity and Safety in Industrial
Workplaces

FKT MEKANIKA

RM203,061.00



**DR. SITI NAZRAH
ZAILANI**

Enhanced Spent Mushroom Medium
Compost Using Bio-Ethanol Waste In
Aerobic Composter System

FKT KIMIA

RM407,000.00



**PROF. MADYA IR. TS. DR.
MOHD RIDZUAN MOHD JAMIR**

Advancements In Medium-Density
Fibreboard Production : Utilizing Kenaf Core
For Enhanced Performance In Interior
Furniture Applications

FKT MEKANIKA

RM79,810.00

Geran FCoEE



DR. BIBI NORAINI MOHD YUSUF

Kemerosotan Pemilihan Matapelajaran Aliran Stem Dalam Kalangan Pelajar : Kajian Kes Sekolah Menengah Luar Bandar Di Negeri Perlis

FPK

RM7,000.00



DR. NURUL NAIMAH ROSE

Meneroka Stres Dan Konflik Keluarga Dalam Kalangan Keluarga Asnaf Di Perlis

FPK

RM7,000.00



PROF. MADYA DR. SHUHAIRIMI ABDULLAH

Pembentukan Model Usahawan Sosial Asnaf Sebagai Pemangkin Transformasi Ekonomi Di Negeri Perlis

FPK

RM7,000.00



PROF. MADYA DR. UMMI NAIEMAH SARAIIH

Keberkesanan Skim Agihan Program Peningkatan Ekonomi Asnaf Maips : Suatu Kajian Kes Di Perlis

FPK

RM7,000.00



DR. MOHD KHAIRULNIZAM ZAHARI

Memperkasakan Budaya Keusahawanan Di Kalangan Belia Asnaf : Kajian Kes Di Perlis

FPK

RM7,000.00



DR. ALIANA SHAZMA AMIR

Financial Literacy to Optimize the Zakat Fund for Asnaf in Perlis

FPK

RM7,000.00



TS. DR. UMAR KASSIM

Kajian Kondisi Dan Reka Bentuk Kediaman Terhadap Pencapaian Akademik Keluarga Asnaf Di Perlis

FKTA

RM7,000.00



DR. MUHAMMAD AHMAR ALI

Financial Literacy Education Among Asnaf Students at the Secondary Schools : Evidence from Perlis

FPK

RM7,000.00



EN. AHMAD ZULHUSNY ROZALI

Developing An Empirical Model of the Key Factors That Affecting the Belief, Intention and Motivation to Pursue Higher Education Among Asnaf Children in Perlis

FPK

RM7,000.00

Geran FCoEE



**PROF. MADYA DR.
NOR'IZAH AHMAD**

Tahap Pengetahuan, Sikap Dan Amalan
Terhadap Gaya Hidup Sihat Dalam Kalangan
Pelajar Asnaf di Perlis

FPK

RM7,000.00



**TS. DR. WAN AZANI WAN
MUSTAFA**

Bridging Educational Gaps : A Study On
The Implementation And Awareness Of E-
Learning Among Asnaf In Perlis

FKT ELEKTRIK

RM7,000.00



**DR. MOHD SOFIAN
MOHAMMAD ROSBI**

Membina Model Pengukuhan Minat
Terhadap Subjek Sains Dalam Kalangan
Pelajar Anak Yatim Asnaf Bagi
Mengelakkan Keciciran Akademik

FPK

RM7,000.00



**WAN NORSYFAWATI
W.MUHAMAD RADZI**

Faktor-Faktor Yang Mendorong Minat
Pelajar Asnaf Terhadap Pendidikan Stem
di Perlis

FPK

RM7,000.00



**AZLINI BINTI CHE HASSAN
@ HASSAN**

Model Tingkah Laku Islam Dalam
Membentuk Kesejahteraan Psikologi
Pelajar-Pelajar Muslim Institusi Pengajian
Tinggi Di Perlis

FPK

RM7,000.00



**DR. MOHD IZWAN IZHAR BIN
HARIS**

Meneroka Fenomena Jurang Kuasa (Power
Distance) Dalam Konteks Komunikasi
Kalangan Pelajar Asnaf Dan Guru Di Perlis :
Satu Pendekatan Fenomenologi

FPK

RM7,000.00



DR. AHMAD SHAKAFF BIN ALI YEON

Program Robocup Aired

FKT ELEKTRIK

RM10,000.00

Lain-Lain Geran Agensi Kerajaan



PROF. MADYA IR. DR. RAZAIDI HUSSIN

Kajian Kebolehlaksanaan Sekolah Semi Konduktor di kawasan utara (Northern Region)

FKT ELEKTRONIK

RM125,000.00



IR. TS. DR. WAN MOHD FAIZAL WAN ABD RAHIM

Penentuan Kualiti, Kos Dan Faedah Work Based Learning (WBL) Bagi Meningkatkan Keterlibatan Industri

FKT MEKANIKAL

RM20,000.00



DR. ATIKAH NOR JOHARI

Pemerkasaan Golongan Belia Rentan dalam Sektor Pertanian: Membangunkan Model Kejayaan Usahawanan Tani Muda Berdasarkan Perspektif Kajian Sosial

FPK

RM36,200.00



PROF. MADYA DR. MOHAMAD NUR KHAIRUL HAFIZI ROHANI

Certified AI Practitioner

FKT ELEKTRIK

RM159,500.00



PROF. MADYA DR. LATIFAH MUNIRAH KAMARUDIN

Development Of Contactless Cardiorespiratory Monitoring System for Elderly and High-Risk People

FKT ELEKTRONIK

RM605,880.00



PROF. MADYA DR. WAN SALLHA YUSOFF

Kajian Bagi Melestarikan Kedudukan Kewangan Universiti Awam Melalui Penetapan Dasar Penyasaran Subsidi Yuran Program Ijazah Sarjana Muda Saluran Perdana

FPK

RM200,000.00



PROF. MADYA. TS. DR. IRNIS AZURA BINTI ZAKARYA

Projek Penanaman Halia Lestari (Sejati Madani) - Kg.Felda Chuping Selatan, Perlis. (PROJEK KONSULTANSI)
Projek Penanaman Halia Komuniti (Sejati Madani) - Kg. Embun Tasoh, Perlis. (PROJEK KONSULTANSI)

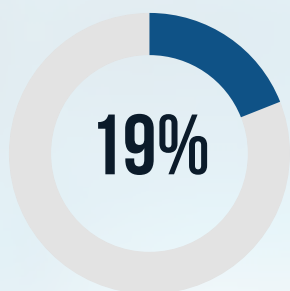
FKT AWAM

RM5,000.00 / RM5,000.00

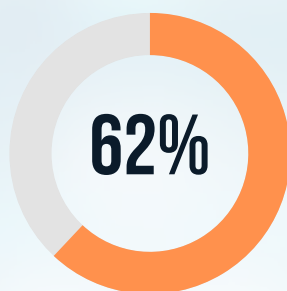
Geran Industri

Geran industri merupakan geran penyelidikan yang ditawarkan oleh pihak industri kepada penyelidik-penyelidik UniMAP bagi menyelesaikan masalah yang dihadapi oleh pihak industri. Antara geran-geran yang ditawarkan ialah:

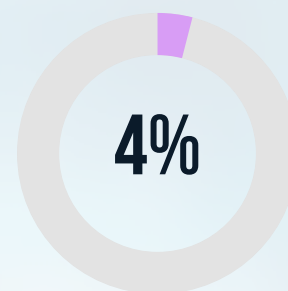
- Industry Matching Programme (IMaP)
- Geran Sumbangan Suruhanjaya Kebangsaan Unesco Malaysia - SKUM (GSS)
- Yayasan Hasanah
- Lain-Lain Geran Industri



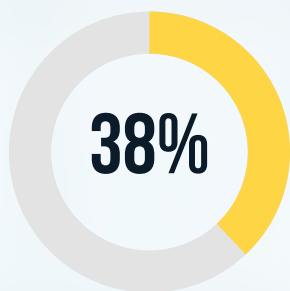
Geran IMaP - Dana Industri



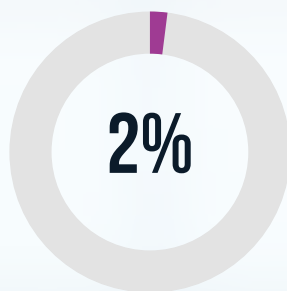
Geran Yayasan Hasanah



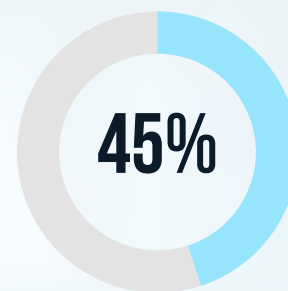
Prototype Research Grant Scheme (PRGS)



Lain-Lain Geran Industri



Intel-UniMAP Pelican Research Grant Collaboration



Industry Matching Programme (IMaP)

IMaP - Dana Industri



**PROF. MADYA IR. DR. KHAIRUL
SALLEH BASARUDDIN**

Autonomous Robotic Loading-Unloading
and Sampling Arm System (ATLAS:
Autonomous Truck & Loader Arm System)
for SD Guthrie Oils Refinery

FKT MEKANIKA

RM50,000.00



**PROF. MADYA IR. DR.
ZURADZMAN MOHAMAD
RAZLAN**

Smart Assist Mobile Pesticide Spraying,
Fertilization and Harvesting System for
Pineapple (NanasCare)

FKT MEKANIKA

RM48,000.00



**DR. MUHAMMAD SOFWAN
MOHAMAD**

Lean Smart-Controlled Retractable Car
Painting Oven (MoVen: Moveable Oven)

FKT MEKANIKA

RM30,000.00



**PROF. MADYA IR. TS. DR.
NASRUL AMRI MOHD AMIN**

An Energy Efficient Water Quality
Monitoring and Control System with Smart
Embedded Uninterrupted Power Supply to
Improve Productivity of Tilapia Fish Farming

FKT MEKANIKA

RM25,000.00



**PROF. MADYA IR. TS. DR.
KHAIRUDDIN MD ISA**

Upscaling and testing a novel wastewater
treatment system made of confiscated
cigarettes at the Palm Oil Mill Effluent (POME)
ponds under a sensory system

FKT KIMIA

RM50,000.00



**PROF. MADYA DR. FARIZUL
HAFIZ KASIM**

SmartHarum: Smart Method for Harumanis
Management to Increase the Production
Yield

FKT KIMIA

RM10,000.00



**PROF. MADYA DR. MOHD
NAZREE DERMAN**

Development of Electrochemical
Process of Palm Oil Mill Effluent
Using Designed Stainless-Steel
Electrode

FKT MEKANIKA

RM50,000.00



**PROF. MADYA DR. LATIFAH
MUNIRAH KAMARUDIN**

SP-MDTrack: Self-Powered Tracker with AI
Predictive Maintenance for Medical Equipment

FKT ELEKTRONIK

RM160,000.00



**PROF. MADYA DR. MUHAMMAD
IMRAN AHMAD**

Heavy Duty Pesticide and Fertilizer
Spraying Robot

FKT ELEKTRONIK

RM20,000.00

IMaP - Dana Industri



PROF. MADYA IR. TS. DR. MOHD RASHIDI CHE BESON

Fast Optical Distribution Network (FastODN) Solution for Telco Operators Rolling out in Fiber-to-the-Home (FTTH) Applications

FKT ELEKTRONIK
RM27,844.05



PROF. MADYA IR. DR. NORSHAMSURI ALI@HASIM

Development of a Field Prototype Distributed Acoustic Sensing for Use in Fiber Optics Perimeter Security Systems

FKT ELEKTRONIK
RM40,000.00



PROF. MADYA DR. SHUHaida YAHUD

Enhancing Athletic Real-Time Performance Monitoring Through Graphene-based Wearable Sensor Integration with Sport Analytics Software

FKT ELEKTRONIK
RM140,000.00



PROF. MADYA DR. SYED MUHAMMAD MAMDUH SYED ZAKARIA

Development of AI-driven High Mast Lighting Monitoring and Control System for ESG Compliant ICD

FKT ELEKTRONIK
RM81,600.00



PROF. MADYA DR. AMMAR ZAKARIA

Development of a Real-Time 3D Localization System using UWB Technology

FKT ELEKTRIK
RM45,000.00



IR. DR. MARNI AZIRA MARKOM

Predictive Modeling of Npk Nutrient Levels and Organic Fertilizer Impact in Soil for Optimal White Turmeric Cultivation Using Machine Learning

FKT ELEKTRONIK
RM20,000.00



PROF. MADYA IR. DR. MOHD ARIF ANUAR MOHD SALLEH

The Production Of Robust Sn-0.7Cu-1.5Bi Fluxed Cored Solder Wire

FKT KIMIA
RM54,000.00



DR. LATIFAH MOHAMED

Smart Safety Helmet for Enhanced Connectivity and Safety in Industrial Workplaces

FKT ELEKTRIK
RM45,000.00



DR. RAJA ABDULLAH RAJA AHMAD

Smart Venturi Fertilizer Injection System

FKT ELEKTRONIK
RM20,000.00

IMaP - Dana Industri



**PROF. MADYA DR. ROZMIE RAZIF
OTHMAN**

Design And Development of Testing Tool for
Solar Harvesting Application

FKT ELEKTRONIK
RM15,000.00



**PROF. MADYA DR. MUHAMAD
KHAIRUL ALI HASSAN**

E-Nose Application for Emission
Detection: Managing Methane and
Carbon in Paddy Farming

FKT ELEKTRIK
RM30,000.00



**PROF. MADYA TS. DR. FATHINUL
SYAHIR AHMAD SA'AD**

Ai-Driven Pest Detection For Enhanced
Integrated Pest Management

FKT ELEKTRIK
RM45,000.00



DR. AZRALMUKMIN AZMI

Real-Time Monitoring Of Solar Farms
Using Automated I-V Curve Tracing

FKT ELEKTRIK
RM22,500.00



**PROF. IR. TS. DR.
MUZAMIR ISA**

Sustainable Electrification of Rural
Homestays: Implementing A Hybrid Solar
Photovoltaic Systems to Power 10 Off- Grid
Houses

FKT ELEKTRIK
RM50,000.00



**PROF. IR. TS. DR. SHAHRIMAN
ABU BAKAR**

Smart Assist Mobile And Lightweight
Robotic Ev Palm Fruit Harvester (Sawitbot)
For Krb (Malaysia) Sdn. Bhd.

FKT MEKANIKAL
RM250,00.00



**PROF. MADYA TS. DR. WONG
YEE SHIAN**

Application Of Packed Column Wet
Scrubber in Desulfurization of Biogas
Generated from Anaerobic Disgestion
of Palm Oil Mill Effluent (Pome)

FKT AWAM
RM44,410.50



**PROF. IR. TS. DR.
HAZRY DESA**

Optimization Of Lightweight Sandwich
Structures For Enhanced Strength and
Durability in Awl 3 Boomslang UAV Fuselage
and Wing Design.

FKT ELEKTRIK
RM45,000.00



**PROF. MADYA DR.
KAMARULZAMAN KAMARUDIN**

Building Management System For
Sustainable Energy Management

FKT ELEKTRIK
RM50,000.00

IMaP - Dana Industri



**PROF. MADYA IR. DR.
MUZAMMIL JUSOH**

Ai-Powered Smart Controller (Aipc) For
Optimizing Cool Fridge System Performance

FKT ELEKTRONIK

RM17,000.00



**PROF. MADYA DR. AZIAN
AZAMIMI ABDULLAH**

Smart Iot System for Real-Time Air Quality
Monitoring and Biocontaminant
Detection in Hospitals

FKT ELEKTRONIK

RM40,000.00



**DR. MUHAMMAD FIRDAUS
ABDUL MUTTALIB**

Integrated System for Automated Soil
Nutrient Analysis and Land Levelling in
Sustainable Paddy Farming in
Collaboration with Juszy Global Sdn Bhd

FKT MEKANIKAL

RM45,000.00



DR. SITI NAZRAH ZAILANI

Enhanced Spent Mushroom Medium
Compost Using Bio-Ethanol Waste In
Aerobic Composter System

FKT KIMIA

RM50,000.00



**PROF. MADYA IR. TS. DR.
MOHD RIDZUAN MOHD
JAMIR**

Advancements In Medium-Density
Fibreboard Production : Utilizing Kenaf Core
For Enhanced Performance In Interior
Furniture Applications

FKT MEKANIKAL

RM15,000.00

Suruhanjaya Kebangsaan UNESCO Malaysia -SKUM



MOHD KASTURI NOR ABD AZIZ

Penghayatan Surat-Menyurat Sultan Abdul
Hamid Melalui Teknologi Realiti Tambahan

FPK

RM12,030.00



**TS. DR. MUHAMMAD AZIZI
AZIZAN**

Techno Farmers Workshop 1.0

FKT AWAM

RM12,690.00



DR. SITI NAZRAH ZAILANI

Program Rangka Sekolah Hebat - Dari Sisa
Menjadi Baja

FKT KIMIA

RM10,523.00



DR. MAHYUN AB WAHAB

Young Water Scientist Camp (YWSC)

FKT AWAM

RM50,000.00



**PROF. MADYA DR. NOOR
HASYIERAH MOHD
SALLEH**

Lestarikan Plastik, Hijaukan Bumi

FKT KIMIA

RM4,806.00



**DR. MOHD KHAIRULNIZAM
ZAHARI**

Csr Vocativista : Menjelajah Masa Depan
Dalam TVET

FPK

RM5,650.00

Lain-Lain Geran Industri



DR. MAHYUN BINTI AB WAHAB

RAF TECHNOLOGIES SDN BHD

Projek Perintis Al-Jazari Nano Aqua

FKT AWAM

RM8,025.00



**PROF. MADYA IR. DR. UMI
FAZARA BINTI MD ALI / DR.
SITI NAZRAH BINTI ZAILANI**

**PETROLIAM NASIONAL BERHAD
(PETRONAS)**

Maximizing Potential of Oleaginous
Microalgae Productivity in Supporting
Biofuel Production

FKT KIMIA

RM717,600.00



**EN. AHMAD ZULHUSNY BIN
ROZALI**

GKK CONSULTANTS

Developing A Comprehensive Model for
Digital Skill Acquisition in Modern Business
Environments for Malaysian Smes

FPK

RM20,000.00



**DR. SITI ZARINA BINTI MD
NAZIRI**

MIMOS SDN BHD

Development of a Lightweight
Authenticated Encryption Scheme

FKT ELEKTRONIK

RM50,000.00



**PROF. MADYA IR. DR.
MOHD SAZLI BIN SAAD**

WIDE AGRO VENTURES SDN BHD

Feasibility Study of Vehicle Navigation
System Under Dense Canopy Palm Oil

FKT MEKANIKAL

RM5,000.00



**PROF. MADYA DR. TEH PEI
LENG**

INTEL ELECTRONICS (M) SDN BHD

Understanding The Influence Of Filler Type
And Particle Size To The Performance Of
Epoxy/Silicone Rubber/Boron Nitride-
Cordierite Underfill Materials

FKT KIMIA

RM203,000.00

Lain-Lain Geran Industri



DR. FLORA BINTI SOMIDIN
INTEL ELECTRONICS (M) SDN BHD

Robust Solder Joint With Dissimilar Alloys
And Modified Reflow Soldering For
Heterogeneous Integration Packaging
Technology

FKT KIMIA
RM232,000.00



**PROF. MADYA DR. KU
SYAHIDAH BINTI KU ISMAIL**
SHORUBBER (M) SDN BHD

Scientific Correlations Between
Wastewater Parameters And Microbial
Community Towards Clarifier Performance

FKT KIMIA
RM124,000.00



**PROF. MADYA DR. SARA
YASINA BINTI YUSUF**
YAYASAN HASANAH

Rebuilding Foundations in Literacy and
Numeracy of Primary Students in Kedah

FKT AWAM
RM4,984,017.20



**PROF. MADYA DR. ABDUL
HAQI BIN IBRAHIM**
NANO QUEST (M) SDN BHD

Completion and Submission of A.S.3 Form
for Nano Quest (M) Sdn Bhd

FKT AWAM
RM28,890.00



**PROF. MADYA IR. TS. DR.
SAIDATUL NORLYANA BINTI
AZEMI**
**TE CONNECTIVITY OPERATIONS SDN
BHD**

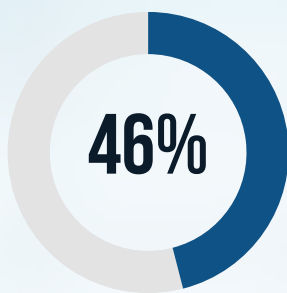
Hydroai : Predicting Rainforest Watershed
with Machine Learning for Disaster
Preparedness

FKT ELEKTRONIK
RM53,544.00

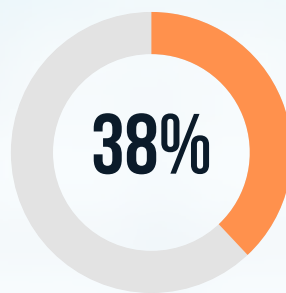
Geran Antarabangsa

Geran antarabangsa merupakan geran penyelidikan yang ditawarkan oleh agensi kerajaan atau industri antarabangsa kepada penyelidik-penyelidik UniMAP. Antara geran-geran yang ditawarkan ialah:

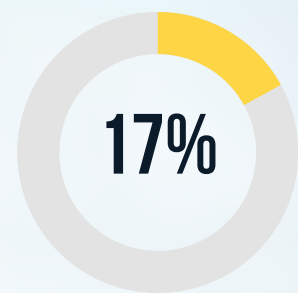
- International Research Fund (INTERES)
- Geran Mobiliti
- Lain-Lain Geran Antarabangsa



INTERES: International
Research Fund



Lain-Lain Geran
Antarabangsa



Geran Mobiliti
Antarabangsa

INTERES: International Research Fund - Dana Antarabangsa



**DR. AHMAD NASRUL NORALI
& PROF. MADYA DR.
SHUHAIDA YAHUD**

Development of CNT Based Piezoresistive
Sensor to Detect Slow Adapting Stimuli
During Tactile Contact

FKT ELEKTRONIK

RM15,000.00



DR. ANAS MOHD NOOR

Capstat: Submersible Capsule Potentiostat for
Enhanced Bioreactor Monitoring

FKT ELEKTRONIK

RM15,000.00



**DR. WAN SAFURAA WAN
OSMAN**

Exploring The Impact of Ai in Teaching and
Learning Across Disciplines and Geographical
Locations

FPK

RM6,000.00



**PROF. MADYA DR. SHARMINI
ABDULLAH**

Investigating The Impact of AI on
Education: A Comparative Corpus
Study of AI and Student-Generated
Sentence Composition

FPK

RM10,000.00



**DR. MOHAMAD NAZRI
ABDUL HALIF**

Quantum Fluctuation Solitons of Bose-Einstein
Condensate: Unveiling the Enigma of
Saturation in Quantum Reflection at Low
Incident Speeds

IMK

RM12,000.00



DR. NORIZAN MOHAMED NAWAWI

Visible Light Communication with
Adaptive Encoder Decoder (ADE)-
OCDMA Model

FKT ELEKTRONIK

RM12,000.00

INTERES: International Research Fund - Dana Antarabangsa



DR. NUR HAFIZAH GHAZALI

Development of Smart Greenhouse
Management System Using IOT & MI

FKT ELEKTRONIK

RM15,000.00



IR. ZAHARI AWANG AHMAD

Enhancing Mango Industry Quality Control: An
IOT-Integrated Fruit Inspection and Grading
System with Neural Network Architecture

FKT ELEKTRONIK

RM15,000.00



**PROF. MADYA TS. DR.
NOORMAIZATUL AKMAR ISHAK**

Exploring Free-To-Air Tv Engagement:
Patterns, Preferences, And Prospects of
Educational Television on TVET In Northern
Malaysia and Yogyakarta Special District

FPK

RM10,000.00



DR. FARAH FAIQAH FAZIAL

Development Of CNT Based
Piezoresistive Sensor To Detect
Slow Adapting Stimuli During
Tactile Contact

FKT KIMIA

RM15,000.00

Geran Mobiliti Antarabangsa



**PROF. MADYA IR. DR.
NORSHAMSURI ALI @
HASIM**

Geran Mobiliti Antarabangsa : Nicolaus
Copernicus University (Ncu), Poland

FKT ELEKTRONIK

RM35,748.00



**PROF. IR. TS. DR.
MUZAMIR ISA**

Geran Mobiliti Antarabangsa : Inisiatif
Pengantarabangsaan Penyelidikan &
Jaringan Akademia - Industri - Attarat Power
Company (Apco), Jordan

FKT ELEKTRIK

RM8,000.00



Lain-Lain Geran Antarabangsa



PROF. MADYA DR. MOHD SHARIZAN MD SARIP

Effect of Ultrasonic Irradiation on Polyurethane Degradation in Deep Eutectic Solvent

FKT KIMIA

RM16,022.10



DR. ADILAH ANUAR

Green Synthesis of Essential Oil-Infused Hydrogels from Rice Straw as a Safe Insect Repellent

FKT KIMIA

RM16,022.10



DR. NOORINA HIDAYU JAMIL

From Rice Husk to Silicon : Exploring New Supply Chains for Semi-Conductors

FKT MEKANIKA

RM88,809.52



DR. HANA ABDULL HALIM

Building Brilliance : Unleashing The Power of Stem Secondary Studies in Perlis, Malaysia

FKT ELEKTRIK

RM9,548.00



PROF. MADYA DR. LATIFAH MUNIRAH KAMARUDIN

Empowering Environmental Health And Wellbeing Through Interdisciplinary Advancements in Sustainable Multi-Sensor Platforms with Energy Harvesting

FKT ELEKTRONIK

RM133,802.82



PROF. MADYA IR. TS. DR. MOHD RASHIDI CHE BESON

Hybrid Fiber-Wireless 2-Dimensional Flexible Cross Correlation (2-D Fcc) Ocdma For Future 6g Network Massive Accessibility

FKT ELEKTRONIK

RM144,632.52

Lain-Lain Geran Antarabangsa



**DR. NIK MUHAMMAD
AZHAR NIK DAUD**

Exploring Novel Aquaculture Feed Formulations Utilizing Rice Bran and Microalgae Biomass

FKT KIMIA

RM29,568.00



**PROF. MADYA DR. LATIFAH
MUNIRAH KAMARUDIN**

Deep Learning - Bforsed Bioelectrical Signal Generation Network Research for HCI Applications

FKT ELEKTRONIK

RM67,793.69



**PROF. TS. DR. MOHD MUSTAFA
ALBAKRI ABDULLAH**

Engine -X Neutron Diffractometer Measurement Of '2 In 1 Intumescent Coating In Geopolymer Plaster' As Fire Protection Materials Towards Interfacial Bonding Mechanism Approach

FKT KIMIA

RM180,000.00



**PROF. MADYA DR. MOHD
AMINUDIN JAMLOS**

Internet Users Profiling by Artificial Intelligence : Application to Cybersecurity

FKT ELEKTRONIK

RM75,700.00



**DR. MUZAIDI BIN OTHMAN
@ MARZUKI**

Empowering Harvests : The Solar - Powered Irrigation for Agriculture

FKT ELEKTRIK

RM32,367.60



**PROF. MADYA TS. DR. NABILAH
AMINAH BINTI LUTFI**

Wastewater Remediation And Bioelectricity Generation In Dual Chambered Fabricated Salt Bridge Microbial Fuel Cell

FKT AWAM

RM12,000.00

Lain-Lain Geran Antarabangsa



**DR. NOORINA HIDAYU
BINTI JAMIL**

From Rice Husk to Silicon : Exploring New
Supply Chains for Semi-Conductors

FKT MEKANIKAL

RM353,963.31



**PROF. MADYA IR. TS. DR. MOHD
RASHIDI BIN CHE BESON**

Performance Enhancement of
Photonic Based Radar in Interferences
Environment Through the Robust
Waveform and Machine Learning

FKT ELEKTRONIK

RM24,161.52



**PROF. MADYA DR. MOHD
NAJIB BIN MOHD YASIN**

"Programmable Metasurfaces for Enhanced
Satellite Communications at X-band
Frequencies"

FKT ELEKTRONIK

RM180,000.00



**IR. DR. MARNI AZIRA
BINTI MARKOM**

Design of Soil Nutrient Monitoring System
with AI Model

FKT ELEKTRONIK

RM4,500.00



**PROF. DR. SUBASH C.B.
GOPINATH**

High Sensitive Detection of CEA on
InterDigitated Electrode For Diagnosing Co
Researchers: Ying Li, Xiaodong Wang and Yeng
Chen

FKT KIMIA

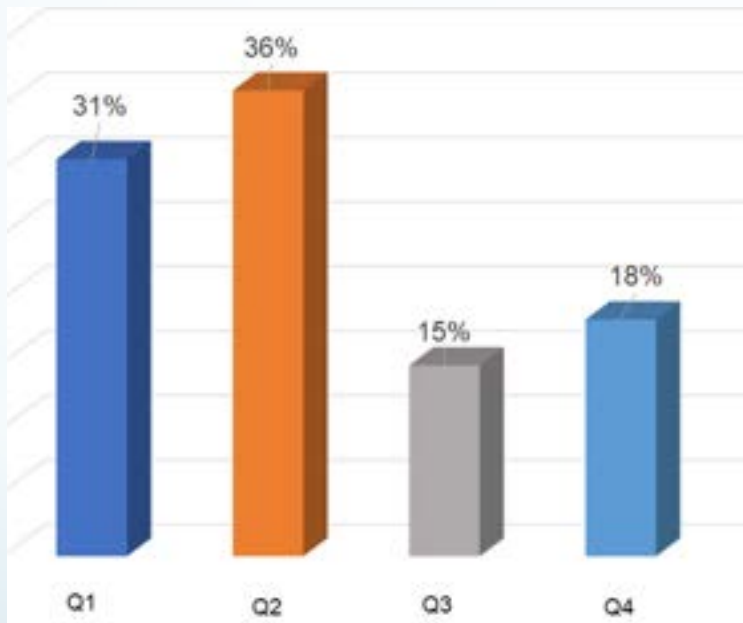
RM10,280.00

PENCAPAIAN PENERBITAN

Sepanjang tahun 2024, penyelidik-penyelidik UniMAP telah menghasilkan sebanyak 1,459 artikel yang telah diterbitkan dalam pangkalan data Scopus seperti ditunjukkan dalam rajah dibawah. Jumlah ini menunjukkan SEDIKIT penurunan berbanding tahun sebelumnya disebabkan berlakunya anjakan fokus dan usaha terhadap penghasilan penerbitan berkualiti dalam jurnal. Sebahagian besar penerbitan pada tahun 2024 adalah penerbitan artikel jurnal iaitu sebanyak 51 %, prosiding persidangan sebanyak 38 % dan lain-lain penerbitan sebanyak 11 %. Secara keseluruhan, jumlah sitasi bagi 5 tahun terkini (2020 – 2024) adalah sebanyak 36,542.



PENCAPAIAN PENERBITAN



QUARTILE	BIL. PENERBITAN (2024)	BIL. PENERBITAN (2023)
Q1	104	106
Q2	122	172
Q3	50	51
Q4	62	85
JUMLAH	338	414

*Data sehingga 31 Disember 2024
Sumber data: Unit Sokongan Maklumat Penyelidikan, PTFSP

Selain menghasilkan penerbitan terindeks Scopus, penyelidik UniMAP turut menghasilkan penerbitan berimpak tinggi yang turut diindeks oleh Web of Science (WoS). Sebanyak 338 penerbitan terindeks WoS yang telah diterbitkan sepanjang tahun 2024. Daripada jumlah ini, 67% (226 artikel) merupakan penerbitan berimpak faktor dalam quartile (Q) Q1 sehingga Q2.



ARTIKEL

JURNAL TERPILIH

Optimal sizing of a fixed-tilt ground-mounted grid-connected photovoltaic system with bifacial modules using Harris Hawks Optimization

Nor Syafiqah Syahirah Mohamed, Shahril Irwan Sulaiman, Siti Rafidah Abdul Rahim, Azralkmukmin Azmi

Abstract

This paper presents an optimal design for ground-mounted grid-connected bifacial PV power plants using a Computational Intelligence (CI)- based Harris Hawks Optimization (HHO) algorithm. This HHO algorithm identifies the best configuration of components and installation parameters for the bifacial PV power plant, aiming to maximize the final yield, minimize the Levelized Cost of Electricity, and boost the Net Present Value.

Four variables were optimized: the bifacial PV module model, inverter model, tilt angle, and module elevation. Furthermore, the paper introduces a Harris Hawks Optimization Sizing Algorithm (HHOSA) to address the sizing challenges. The presented HHOSA was purely developed in Matlab R2017b. The usage of PVsyst was only limited to the derivation of irradiation data at different tilt angle of PV array. These data were later used in HHOSA. To verify its effectiveness, HHOSA was benchmarked against other CI algorithms, including the Slime Mould Algorithm (SMA), Firefly Algorithm (FA), Manta Ray Foraging Optimization (MRFO), and Cuckoo Search Algorithm (COA). The evaluation considered the algorithm's stability, local search capability, convergence rate, computation time, and required population size. Findings suggest that the HHOSA outperforms its peers, marking it as a potential leader for designing bifacial PV power plants. The results indicate that the HHOSA algorithm exhibits superior performance in these aspects, making it a promising approach for optimizing the design of bifacial PV power plants. Moreover, this study provides insights into the economic and technical viability of bifacial PV systems under various environmental and system conditions. A sensitivity analysis, focusing on the interplay of three decision variables – albedo values (25 %, 50 %, and 75 %), tilt angles (10 °, 25 °, and 35 °), and module elevations (0.5 m, 1.5 m, and 2 m) – was conducted. It assessed their influence on final yield, additional bifacial PV module yield, Levelized Cost of Electricity, and the system's Net Present Value. The results emphasize the importance of carefully considering the impacts of albedo, module elevation, and tilt angle on the financial performance of bifacial PV installations.

ARTIKEL

JURNAL TERPILIH

Towards environmentally-friendly solutions for real textile-dyeing wastewater with energy recovery: Effluent recirculation and Rubia plant-derived purpurin electron mediator in microbial fuel cell

Sing-Mei Tan, Li-Ngee Ho, Yee-Shian Wong, Che Zulzikrami Azner Abidin,
Soon-An Ong

Abstract

Escalating global water pollution exacerbated by textile-dyeing wastewater (TDW) poses significant environmental and health concerns due to the insufficient treatment methods being utilized. Thus, it is imperative to implement more effective treatment solutions to address such issues.



In this research, different environmentally-friendly strategies involving effluent recirculation (ER) and *Rubia cordifolia* plant-derived purpurin electron mediator (EM) were introduced to enhance the treatment of real TDW and bioelectricity generation performance of an anti-gravity flow microbial fuel cell (AGF-MFC). The results revealed that optimum performance was achieved with a combination of hydraulic retention time (HRT) of 48 h with a recirculation ratio of 1, where the reduction efficiency of biochemical oxygen demand (BOD₅), chemical oxygen demand (COD), ammonium (NH₄⁺), nitrate (NO₃⁻), sulphate (SO₄²⁻), ammonia nitrogen (NH₃-N), colour and turbidity were 82.17 %, 82.15 %, 85.10 %, 80.52 %, 75.91 %, 59.52 %, 71.02 % and 93.10 %, respectively. In terms of bioelectricity generation performance, AGF-MFC showed a maximum output voltage and power density of 404.72 mV and 65.16 mW/m², respectively. Moreover, the results also signified that higher treatment performance of TDW was obtained with natural purpurin from *Rubia cordifolia* plant than synthetic purpurin as EM. The reduced reactivity of highly stable synthetic purpurin EM for mediating the electron transfer was a contributing factor to the outperformance of plant-derived purpurin. Additionally, detailed electron-mediating mechanisms of purpurin were proposed to unravel the underlying electron transfer pathway involved in AGF-MFC. This research offers insight into the development of more sustainable solutions for managing TDW, and consequently reducing environmental pollution.

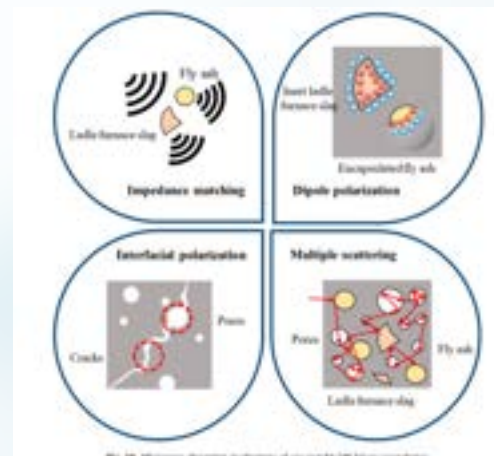
ARTIKEL JURNAL TERPILIH

Microwave absorption function on a novel one-part binary geopolymers : Influence of frequency, ageing and mix design

Hang Yong-Jie, Heah Cheng-Yong, Liew Yun-Ming, Mohd Mustafa Al Bakri Abdullah, Lee Yeng-Seng, Lee Wei-Hao, Phak Khananan Pakawanit, Ong Shee Ween, Tee Hoe-Woon, Hsu Cheng-Hsuan

Abstract

This paper presents an innovative application of a one-part geopolymer for microwave absorption. The influences of frequency, ageing time and mixing formulations on the mechanical, dielectric, and microwave-absorbing performance of the one-part binary geopolymer using fly ash and ladle furnace slag were investigated.



The mixing formulations included alkali activators-to-aluminosilicate sources, sodium metasilicate-to-sodium hydroxide, and water-to-binder ratios. The results demonstrated that the dielectric constant decreased while the dielectric loss and loss tangent increased and remained constant with increasing frequency. The geopolymers have the highest dielectric values at an early age and diminish with ageing time. These resulted in the geo-polymers having excellent microwave absorption (50 – 80%) at high-frequency levels and later ages. A higher water content resulted in higher porosity, reducing mechanical strength but enhancing microwave absorption. An optimal water content must be attained to achieve dual mechanical strength and microwave absorption performance.

ARTIKEL

JURNAL TERPILIH

Magnesium sulphate resistance of fly ash one-part geopolymers: Influence of solid alkali activators on physical, mechanical and chemical performance

Ooi Wan-En, Liew Yun-Ming, Heah Cheng-Yong, Mohd Mustafa Al Bakri Abdullah, Ho Li Ngee, Phak Khananan Pakawanit, Wei-Hao Lee, Part Wei Ken, Tee Hoe-Woon, Yip Yu-Xin

Abstract

The commitment to promoting circular economy and durable construction materials has led to the advocacy for one-part geopolymer (OPG), as an eco-friendly substitute for traditional ordinary Portland cement (OPC). Solid alkali activator is the fundamental component of OPG and significantly influences the sulphate resistance.

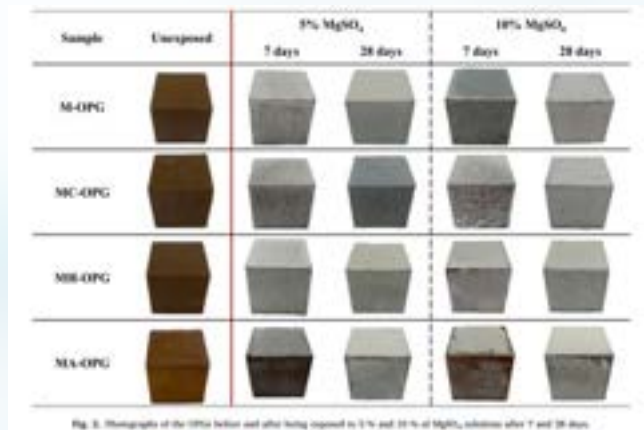


Fig. 8. Photographs of the 100mm cubes before and after being exposed to 5% and 10% of $MgSO_4$ solutions after 7 and 28 days.

To identify the types of solid alkali activators best suited for the development of sulphate-resistant OPGs, OPGs activated with Na_2SiO_3 (M-OPG), $Na_2SiO_3+Na_2CO_3$ (MC-OPG), Na_2SiO_3+NaOH (MH-OPG) and $Na_2SiO_3+NaAlO_2$ (MA-OPG) were exposed to 5 % and 10 % of $MgSO_4$ solutions for 28 days. The fine pore structures of MH-OPG and MC-OPG mitigated deterioration from the more concentrated $MgSO_4$ solution, resulting in higher residual compressive strengths after exposure to the 10 % $MgSO_4$ compared to the 5 %. Exposure to the 5 % $MgSO_4$ solution resulted in strength deterioration for M-OPG, MH-OPG and MC-OPG due to the discontinuity of the aluminosilicate structure, as evidenced by the diminished Q4 (3Al) sites. Conversely, the MA-OPG exhibited a 24.1 % increase in compressive strength, accompanied by the emergence of sodium magnesium aluminium silicate hydrate ((N,M)-A-S-H) gel. Hence, $Na_2SiO_3+NaAlO_2$ should be acknowledged as the primary candidate for solid alkali activators in the development of sulphate-resistant OPGs.

ARTIKEL JURNAL TERPILIH

Elucidation on alkali activation of slag with various solid-to-liquid ratios via heat evolution

Rosnita Mohamed, Rafiza Abd Razak, Mohd Mustafa Al Bakri Abdullah, Shayfull Zamree Abd Rahim, Nurul Aida Mohd Mortar, Jitrin Chaiprapa, Somchai Tancharakorn, Md Azree Othuman Mydin, Petrica Vizureanu

Abstract

This research intends to evaluate alkali activation of slag through heat evolution for emphasizing the potential of ambient curing. The heat evolution and cumulative heat evolved acquired were used to further investigate the nucleation and growth mechanisms by using the Johnson Mehl Avrami Kolmogorov model. Increasing the solid-to-liquid ratio resulted in significant changes to the peaks intensity of heat evolution and a decrease in total cumulative heat evolved. Meanwhile, it was found that the nucleation mechanism and growth is driven by instantaneous heterogeneous nucleation with rod-like growth. Furthermore, the lowest heat evolved (238.72 J/g) with the highest growth rate was discovered to produce superior compressive strength properties (51.667MPa) as well as densified morphology and fewer in microcracks creation compared to the highest total heat evolved (346.92 J/g). The elemental distribution of alkali-activated slag with the least cumulative heat evolved also demonstrated a homogeneous distribution of important elements including silicon, aluminum, and calcium following alkali activation.

SOROTAN AKTIVITI

4 Januari 2024 | Taklimat Awal Penyelarasan Penyediaan Data UniMAP Research Assessment (UniRA) dan Data Malaysia Research Assessment (MyRA)

Taklimat awal bagi Penyelarasan Penyediaan Data UniMAP Research Assessment (UniRA) dan Data Malaysia Research Assessment (MyRA) bagi pencapaian tahun 2023 sempena pengeluaran Glosari MyRA Pindaan 2023 oleh Kementerian Pengajian Tinggi.



Terdapat perubahan yang agak signifikan dalam Glosari Pindaan 2023 ini, yang dijangkakan akan memberi kesan kepada pencapaian MyRA UniMAP. Pihak RMC mengucapkan ribuan terima kasih kepada semua Timbalan Dekan Akademik & Penyelidikan Fakulti, Timbalan Pengarah Institut, Ketua CoE dan semua Pemilik Data MyRA dan wakil yang telah hadir ke sesi taklimat yang telah diadakan.



20 Januari 2024 | pembentangan cadangan projek bagi permohonan Geran Malaysia Laboratories for Academia-Business Collaboration (MyLab)

Satu sesi pembentangan cadangan projek bagi permohonan Geran Malaysia Laboratories for Academia-Business Collaboration (MyLab) telah diadakan di Hotel Dorsett, Putrajaya. Satu projek dari UniMAP yang diketuai oleh Dr. Siti Nazrah Zailani dari Fakulti Kejuruteraan & Teknologi Kimia (FKTK) telah terpilih ke peringkat pembentangan kertas kerja penuh dengan tajuk, "Enhanced Spent Mushroom Medium Compost Using Bio-Ethanol Waste in Aerobic Composter System".

SOROTAN AKTIVITI

23 Januari 2024 | Artificial Intelligence (AI), Assisted Research Article Writing

Pusat Pengurusan Penyelidikan (RMC) telah menganjurkan satu bengkel penerbitan yang menggunakan bantuan teknologi kecerdasan buatan. En. Faharol Bin Zubir, pensyarah Fakulti Perniagaan dan Komunikasi, telah dijemput untuk berkongsi kepakaran beliau dengan tajuk taklimat, "AI-Assisted Research Article Writing", kepada semua penyelidik UniMAP.

Semoga ilmu yang dikongsi dapat membantu para penyelidik untuk mencapai KPI penerbitan geran yang belum dicapai.



7 & 8 Mac 2024

Lawatan Tapak Bagi Tujuan Verifikasi Dan Penilaian Projek Malaysia Laboratories For Academia-Business Collaboration (Mylab) 1/2023

Panel Penilai KPT telah bersetuju untuk mengadakan lawatan tapak ke UniMAP. Lawatan selama 2 hari ini adalah hasil keputusan pembentangan cadangan projek bagi permohonan geran MyLAB 1/2023 daripada Universiti Malaysia Perlis (UniMAP) bertajuk "Enhanced Spent Mushroom Medium Compost Using Bio-ethanol Waste in Aerobic Composter System" yang diketuai oleh Dr. Siti Nazrah Zailani. Lawatan ini telah disertai oleh 7 orang wakil dari KPT dengan diketuai oleh Prof Ir. Dr. Abdul Latif Ahmad dan turut disambut oleh Prof Ir Dr Rizalafande, Timbalan Naib Canselor Penyelidikan & Inovasi UniMAP beserta Pengarah RMC dan pihak industri yang terlibat. Tujuan lawatan ini adalah untuk melihat kesediaan makmal dan industri bagi menilai kesediaan penyelidik dan makmal untuk melaksanakan projek yang dicadangkan.

SOROTAN AKTIVITI



2 Mac 2024| Anugerah Kecemerlangan Penyelidikan

Pada 2 Mac 2024, Universiti Malaysia Perlis (UniMAP) telah menganjurkan Majlis Anugerah Kecemerlangan Penyelidikan (AKP) 2024 sebagai sebahagian daripada Sambutan Bulan Kecemerlangan Penyelidikan & Inovasi UniMAP. Majlis ini bertujuan untuk mengiktiraf dan menghargai pencapaian cemerlang para penyelidik UniMAP dalam bidang penyelidikan dan inovasi.

Sepanjang bulan Mac 2024, pelbagai program dan aktiviti telah dianjurkan, termasuk Ekspo Rekacipta UniMAP (eREKA), yang mempamerkan hasil-hasil inovasi dan ciptaan terkini daripada para penyelidik universiti. Majlis AKP 2024 menjadi platform untuk memberi penghargaan kepada penyelidik yang menunjukkan prestasi luar biasa dalam penyelidikan, penerbitan, dan inovasi, sekaligus memotivasi komuniti akademik untuk terus mencapai kecemerlangan.

Majlis Anugerah Kecemerlangan Penyelidikan 2024 ini mencerminkan dedikasi UniMAP dalam memupuk budaya penyelidikan yang unggul dan inovatif, selaras dengan visi universiti untuk menjadi institusi terkemuka dalam bidang sains, teknologi, dan kejuruteraan.

SOROTAN AKTIVITI



2 Mei 2024| Lawatan Kerja ke UMT

Lawatan kerja dan penanda aras pengurusan penyelidikan dan Hi-CoE telah diadakan di Universiti Malaysia Terengganu. UniMAP telah diketuai oleh Timbalan Naib Canselor (Penyelidikan dan Inovasi) dan turut serta adalah Pengarah Pusat Pengurusan Penyelidikan serta timbalan pengarah dan pegawai daripada pejabat TNCPI dan RMC.

YBrs. Prof. Dr. Marinah Mohd Ariffin, TNCPI UMT, telah memberikan taklimat serta diikuti oleh sesi perkongsian amalan terbaik pengurusan penyelidikan oleh YBrs. Prof. Dr. Suhaimi Suratman, Pengarah RMO.

Turut diadakan adalah lawatan kepada dua Hi-CoE yang terdapat di UMT iaitu Akuatrop dan INOS.



SOROTAN AKTIVITI

3 Mei 2024 | Lawatan Kerja ke UMPSA



Delegasi UniMAP diketuai oleh Timbalan Naib Canselor (Penyelidikan & Inovasi), Pengarah Pusat Pengurusan Penyelidikan beserta timbalan pengarah dan pegawai RMC telah mengadakan lawatan kerja ke Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA). UMPSA dihadiri oleh YBrs. Prof. Dr. Mohd Hasbi Ab Rahim, Pengarah Kanan Penyelidikan yang juga pemangku TNCPI UMPSA.

Lawatan bertujuan untuk mengadakan sesi perkongsian amalan terbaik di dalam aktiviti pengurusan penyelidikan dan inovasi serta membincangkan cadangan bagi meningkatkan kecemerlangan MTUN di dalam aktiviti penyelidikan.

UniMAP turut dibawa melawat ke Pusat TVET Termaju UMPSA. Delegasi UniMAP turut diraikan bersama di dalam Majlis Jamuan Hari Raya Aidilfitri Jabatan Penyelidikan dan Inovasi UMPSA.



SOROTAN AKTIVITI

6 Ogos 2024 | Majlis Penghargaan dan Penyerahan Geran Penyelidikan 2024

Universiti Malaysia Perlis (UniMAP) terus cemerlang apabila mencatatkan pencapaian membanggakan dengan memperoleh keseluruhan dana penyelidikan berjumlah RM8.3 juta bagi 118 geran setakat Julai 2024. Seramai 116 penerima daripada 13 kategori geran penyelidikan diraikan dalam majlis ini.



Majlis telah berlangsung di Auditorium Canselor Tuanku Syed Sirajuddin, Kampus Alam UniMAP Pauh Putra. Turut hadir Timbalan Naib Canselor (Penyelidikan & Inovasi) UniMAP, Prof. Ir. Dr. Rizalafande Che Ismail; Timbalan Naib Canselor (Hal Ehwal Pelajar & Alumni), Prof. Ts. Dr. Mohd Mustafa Al Bakri Abdullah; Ketua Pustakawan UniMAP, Puan Mazmin Mat Akhir; dan Pengarah Pusat Pengurusan Penyelidikan (RMC), Prof. Madya Dr. Naimah Ibrahim.

Dalam majlis sama turut diraikan Pendaftaran UniMAP dengan Malaysia Board of Technologists (MBOT) sebagai Approved Training Provider (ATP) di mana mulai Ogos 2024, UniMAP dibenarkan menjalankan program yang boleh membawa jam kredit Continuing Professional Development kepada Ahli Teknologi Profesional (Ts.) dan Juruteknik Bertauliah (Tc.) dengan permohonan CPD hours itu boleh dibuat secara percuma daripada MBOT.



SOROTAN AKTIVITI

2-4 September 2024 | Global Trends in Engineering, Science and Technology Congress 2024 (GTEST2024)

Global Trends in Engineering, Science and Technology Congress 2023 (GTEST) telah berjaya dianjurkan di Bertam Resort, Penang dari 2-4 September 2024 oleh Pejabat Timbalan Naib Canselor (Penyelidikan & Inovasi) dan Penyelidikan Pusat Pengurusan (RMC) UniMAP dengan kerjasama 6 fakulti UniMAP (FKTEN, FKTE, FKTA, FKTK, FKTM, FPK), Institut Kejuruteraan Matematik (IMK), Pusat Kecemerlangan (CoE), Pusat Komunikasi Korporat (PKK), UniMAP Pusat Kebudayaan (PKBU) dan Penerbit UniMAP.

GTEST2023 telah dirasmikan oleh Menteri Pendidikan Tinggi, YB Dato' Seri Diraja Dr. Zambry Abd Kadir. Turut hadir pada majlis tersebut ialah Naib Canselor UniMAP,

Prof. Dato' Dr. Zaliman Sauli, Timbalan Naib Canselor (Penyelidikan & Inovasi), Timbalan Naib Canselor (Akademik & Antarabangsa), Timbalan Naib Canselor (HEPA), Dekan-dekan Fakulti, Pengarah Institut dan Ketua-ketua Pusat Kecemerlangan (CoE).

GTEST 2024 dengan tema "Synergizing Technologies for Transformative Innovastion" anjuran UniMAP menghimpunkan tujuh persidangan antarabangsa yang saban tahun dianjurkan setiap fakulti dan institut yang mempunyai pelbagai bidang tujahan utama seperti kejuruteraan bahan; kejuruteraan elektrik dan elektronik; kejuruteraan mekanikal; kejuruteraan kimia; kejuruteraan awam dan alam sekitar; serta sains sosial di universiti itu.



SOROTAN AKTIVITI

GTEST 2024 adalah kali kedua dianjurkan dengan menghimpunkan tujuh persidangan antarabangsa iaitu, ICED, ICoMSETA, ICoBiomaseSE, WAREG, CENVIRON, ICoCET, ELECRIS, dan ICRQE di mana 7 ucapnama (keynote speaker) telah disampaikan. Secara keseluruhan, melalui 7 persidangan itu telah menerima lebih 350 kertas saintifik daripada peserta tempatan dan antarabangsa.



Sempena penganjuran GTEST 2023 itu juga, majlis pertuakran MoU dan MoA turut berlangsung antara UniMAP dan beberapa industri dan unviersiti luar negara.



SOROTAN AKTIVITI

22 Oktober 2024 | Lawatan Daripada Delegasi Petronas Research Sdn. Bhd. (PRSB)

Pada 22 Oktober 2024, Pusat Pengurusan Penyelidikan (RMC) UniMAP telah menerima kunjungan hormat dari delegasi Pengurusan Penyelidikan Akademik, PRSB terdiri daripada En Husin Albasri B Mansor (Pengurus Kanan Pengurusan Penyelidikan Akademik) dan Dr Nor Azlin Bt M Zaki (Eksekutif Pengurusan Penyelidikan Akademik).

UniMAP telah diwakili oleh Timbalan Naib Canselor Penyelidikan dan Inovasi, Prof. Ir. Dr. Rizalafande Che Ismail, Pengarah RMC, Prof. Madya Ts. Dr. Ayu Wazira Azhari serta Ketua-Ketua Pusat Kecemerlangan Penyelidikan(CoE), Pengarah-pengarah Institut dan Timbalan-Timbalan Dekan Akademik dan Penyelidikan setiap fakulti.



Turut berlangsung sesi berasingan bagi pembentangan kemajuan projek geran Petronas-Academia Collaboration Dialogue (PACD) oleh Ketua Penyelidik, Dr Siti Nazrah Zailani.

Delegasi turut dibawa melawat ke UniMAP Center for Photovoltaics (UCPV) UCPV dan Pusat TVET UniMAP.

Terdapat beberapa projek penyelidikan yang berpotensi tinggi untuk direalisasikan dengan kerjasama PRSB telah dikenal pasti hasil dapatan lawatan tersebut. Diharapkan kerjasama sedia ada antara UniMAP dan PRSB dapat ditingkatkan lagi pada masa akan datang.

SOROTAN AKTIVITI

6 November 2024 | Program "Sharing Session on Winning FRGS 2025 Application"

Pihak Kementerian Pendidikan Tinggi (KPT) telah membuka permohonan geran Dana Penyelidikan Kementerian Pendidikan Tinggi (DP KPT) bagi Skim Geran Penyelidikan Fundamental (FRGS) Fasa 1/2025.

Pihak RMC UniMAP mengambil langkah proaktif dalam membantu para penyelidik universiti ini untuk menghasilkan kertas cadangan yang lengkap dan berkualiti serta memenuhi semua syarat dan kriteria yang telah ditetapkan dalam Garis Panduan (Pindaan Tahun 2024) dan Dokumen Tadbir Urus Dana Penyelidikan KPT yang ditetapkan.

Satu taklimat penulisan kertas cadangan bagi permohonan geran FRGS telah diadakan dan disampaikan oleh Prof. Ch. Dr. Wan Mohd Khairul Bin Wan Mohamed Zain kerana beliau adalah salah seorang panel penilai geran kementerian pengajian tinggi. Dengan pengalaman dan pengetahuan daripada penceramah, semua penyelidik dapat lebih memahami cara penulisan geran FRGS dengan lebih berkesan.



2 Disember 2024 | Bengkel Autocrat and Excel for Beginners anjuran Pusat Pengurusan Penyelidikan (RMC)

Satu bengkel Autocrat & Excel for Beginners telah dianjurkan oleh Pusat Pengurusan Penyelidikan (RMC) untuk kakitangan Pejabat T&CPI dan RMC. Bengkel sehari yang telah dikendalikan oleh Dr Mahyun Ab Wahab ini telah dianjurkan bagi memberi pendedahan kepada semua berkenaan asas penggunaan Autocrat dan Excel dalam membantu menambahbaik dan memudahkan kerja-kerja pentadbiran dan pengurusan di RMC.

SOROTAN AKTIVITI

Majlis Penghargaan Penyelidikan & Inovasi 2024



Majlis Penghargaan Penyelidikan & Inovasi 2024 berlangsung dengan meriah bagi meraikan pencapaian cemerlang UniMAP dalam bidang penyelidikan dan inovasi. Majlis ini menonjolkan kejayaan luar biasa warga UniMAP, termasuk penerimaan dana penyelidikan tertinggi dalam sejarah universiti, sebanyak RM23.6 juta pada tahun ini. Dana tersebut meliputi pelbagai sumber, termasuk RM14 juta daripada kerajaan, RM8 juta daripada industri, dan lebih RM1 juta daripada dana antarabangsa.

Salah satu pencapaian membanggakan ialah pengiktirafan Prof. Ts. Dr. Azremi Abdullah Al Hadi sebagai salah seorang Top Research Scientist Malaysia (TRSM) 2024 oleh Akademi Sains Malaysia. Selain itu, enam penyelidik UniMAP, termasuk seorang pelajar pascasiswazah, telah disenaraikan dalam World's Top 2% Scientists 2024 oleh Stanford University.

Selain itu, syarikat start-up UniMAP, IDERIA Sdn. Bhd. telah berjaya mengkomersialkan lima produk inovasi termasuk iTrack dan iHealth, mencatat hasil jualan melebihi RM500,000 serta memenangi KPI Khas Sidang Kemuncak MCY2023.

Naib Canselor UniMAP Prof. Dato' Ts. Dr. Zaliman Sauli hadir meraikan majlis ini bersama-sama dengan Timbalan Naib Canselor (Akademik & Antarabangsa) Prof. Ir. Dr. Mohd Shukry Abdul Majid, Timbalan Naib Canselor (Penyelidikan & Inovasi) Prof. Ir. Dr. Rizalafande Che Ismail serta para Dekan dan Ketua-Ketua Jabatan.

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Majlis ini turut menampilkan projek inovatif seperti HABAQQQ NPK, diterajui oleh Ts. Erdy Sulino Mohd Muslim Tan daripada CEASTech UniMAP. Projek ini menggunakan teknologi kecerdasan buatan (AI) untuk meramalkan keperluan baja tanaman harumanis, membantu pekebun meningkatkan kecekapan dan mengurangkan pembaziran.