



PROFESOR MADYA TS. DR.

**SHEIKH AHMAD IZADDIN BIN
SHEIKH MD GHAZALI**



SCAN FOR PROFILE

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📍 UITM KAMPUS KUALA PILAH

RESEARCHER IDENTITIES

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● GOOGLE SCHOLAR ad_Thf4AAAAJ

● RESEARCHERID T-5843-2019

EDUCATION

AHLI BERSEKUTU MAJLIS PROFESOR
NEGARA

KEAHLIAN PROFESIONAL 2023

ANNUAL RETENTION CERTIFICATE -
INSTITUT KIMIA MALAYSIA

KELAYAKAN PROFESIONAL 2022

TEKNOLOGIS PROFESIONAL - CHEMICAL
TECHNOLOGY

KEAHLIAN PROFESIONAL 2018

DOCTOR OF PHILOSOPHY IN SCIENCE

PHD 2016

M.SC. IN CHEMISTRY

SARJANA (MASTER) 2006

B.SC(HONS) IN PETROLEUM
CHEMISTRY(2ND CLASS UPPER)

IJAZAH SARJANA MUDA (KEPUJIAN) 2003

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17

SCOPUS

15

WEB OF SCIENCE

19

GOOGLE SCHOLAR

RESEARCH SUMMARY

20

GRANTS

172

PUBLICATIONS

14

CONSULTATIONS

9

SUPERVISIONS

DETAILED BREAKDOWN

RESEARCH GRANTS

International

4

Local

16

PUBLICATIONS

Indexed

85

Others

87

CONSULTATIONS

Appointed

0

Completed

14

SUPERVISIONS

PhD Completed

0

PhD Ongoing

1

Master Completed

8

Master Ongoing

0

► **INTERNATIONAL (4)**

- **INTERCALATION OF MCPA HERBICIDE INTO CA/Al LAYERED DOUBLE HYDROXIDE (LDH-MCPA) AS A POTENTIAL GREEN HERBICIDE TO IMPROVE THE WATER ECOSYSTEM**
Principal Investigator · 2023 · OTHER GRANTS
- **INTERCALATION OF 2-METHYL-4- CHLOROPHENOXY-ACETIC ACID (MCPA) HERBICIDE WITH HYDROTALCITE LIKE COMPOUND : SYNTHESIS PHYSICO-CHEMICAL AND CONTROLLED RELEASE STUDY**
Principal Investigator · 2021 · OTHER GRANTS
- **DEVELOPMENT SMART CORROSION INHIBITOR OF RB ANION INTO Zn/Al LAYERED DOUBLE HYDROXIDE (LDH-RB) FOR SUSTAINABLE WATER ECOSYSTEM**
Principal Investigator · 2025 · OTHER GRANTS
- **CORROSION CONTROL IN AL-AIR BATTERIES: A GREEN APPROACH TO REDUCING WATER CONTAMINATION THROUGH MELDRUM'S ACID OPTIMIZATION**
Project Member · 2025 · OTHER GRANTS

► **LOCAL (16)**

- **PEMBANGUNAN DAN KEBOLEHNGUNAAN PERMAINAN FABUTON KIDS BAGI TOPIK FORMULA KIMIA DALAM PENDIDIKAN STEM**
Principal Investigator · 2023 · BIAZA TERUS
 - **Synthesis, characterization and controlled release study of intercalated Calcium/Aluminium- 4-chlorophenoxyacetic acid for new paddy cultivation herbicide nanocomposite**
Principal Investigator · 2022 · GERAN INSENTIF PENYELIAAN
 - **CORROSION INHIBITION MECHANISM STUDY ON MELDRUM'S ACID THIOSEMICARBAZONE DERIVATIVES: SURFACE ANALYSIS, ELECTROCHEMICAL AND DENSITY FUNCTIONAL THEORY (DFT) METHODS**
Project Member · 2022 · FUNDAMENTAL RESEARCH GRANT SCHEME
 - **SYNTHESIS CHARACTERIZATION AND CONTROLLED RELEASE OF CALCIUM ALUMINIUM LAYERED DOUBLE HYDROXIDE INTERCALATED WITH 2-METH-4 CHLOROPHENOXYACETIC (ACID)**
Principal Investigator · 2021 · DANA DALAM NEGERI
 - **Elucidation of Relationship between the Physicochemical Properties of Carbon Dots Graphitic Carbon Nitride with its Activity in the Photocatalytic Reduction of Carbon Dioxide**
Project Member · 2021 · MYRA RESEARCH GRANT
 - **Enzymatic esterification of unsaturated sunflower oil fatty acids using immobilized lipase in production of green renewable pentaerythritol based biolubricant**
Project Member · 2021 · MYRA RESEARCH GRANT
 - **SYNTHESIS OF INTERCALATED HERBICIDE-GRAPHITE OXIDE AND ITS CONTROLLED RELEASE FORMULATION**
Principal Investigator · 2019 · FUNDAMENTAL RESEARCH GRANT SCHEME
 - **MECHANISM OF STRUCTURAL TRANSFORMATION OF SUPERPARAMAGNETIC IRON OXIDE-KAOLINITE CLAY NANOCOMPOSITE AS WATER POLLUTANT ADSORBENT**
Project Member · 2019 · FUNDAMENTAL RESEARCH GRANT SCHEME
 - **IDENTIFICATION AND PHYTOCHEMICAL SCREENING OF SELECTED PLANT SPECIES IN UITMCNS FOREST**
Project Member · 2017 · SELF-FUNDED
 - **CHEMICALLY MODIFIED ACTIVATED CARBON WITH STRUVITE AND ITS EFFECTS ON Pb IMMOBILIZATION IN SOIL**
Project Member · 2017 · FUNDAMENTAL RESEARCH GRANT SCHEME
 - **SYNTHESIS AND CONTROLLED RELEASE STUDY OF INTERCALATED 3,4 DICHLOROPHENOXY ACETIC ACID INTO LAYERED DOUBLE HYDROXIDE(LDH) ANIONIC CLAY**
Principal Investigator · 2016 · FUNDAMENTAL RESEARCH GRANT SCHEME
-

- **INTERCALATION OF LAYERED DOUBLE HYDROXIDE WITH 3,4-DICHLOROPHENOXYACETIC ACID (3,4D) HERBICIDE FOR FRIENDLY ENVIRONMENT MATERIAL AND ITS CONTROLLED RELEASE PROPERTY**

Principal Investigator · 2014 · OTHER GRANTS

- **Chemical Constituent Of Goniiothalamus Andersonii**

Principal Investigator · 2009 · SELF-FUNDED

- **Quantitative Structure-activity Relationship Of Antimalarial Compounds**

Principal Investigator · 2007 · SELF-FUNDED

- **ELUCIDATION OF ADSORPTION MECHANISM AND MOLECULAR INTERACTION OF MAGNETIC LAYERED DOUBLE HYDROXIDE ASSISTED-SWITCHABLE HYDROPHILICITY SOLVENT TOWARDS FLUOROQUINOLONES**

Project Member · 2024 · FUNDAMENTAL RESEARCH GRANT SCHEME

- **INTERCALATING RHODAMINE B INTO ANIONIC CLAY MINERALS AS A POTENTIAL CORROSION INHIBITOR MATERIAL**

Principal Investigator · 2023 · FUNDAMENTAL RESEARCH GRANT SCHEME



PUBLICATIONS

► INDEXED (85)

- **One-pot preparation of magnetic biochar as highly photoactive material for rhodamine B removal**

JOURNAL · 2026

- **Valorisation of Citrullus lanatus rind for eco-friendly lipstick: physicochemical characterisation and safety evaluation**

JOURNAL · 2026

- **Role of Synthesis Route on The Structural and Photocatalytic Activity of Magnetic TUD-1 Coated NiFe₂O₄**

JOURNAL · 2026

- **Optimization of activated carbon as adsorbent using response surface methodology and its application for cadmium removal from wastewater**

JOURNAL · 2026

- **pH-responsive LDH-palmitic acid nanohybrids for controlled drug delivery**

JOURNAL · 2026

- **Corrosion inhibition pre-screening of Nitrobenzaldehyde Meldrum's acid using response surface methodology (RSM) and Pearson correlation analysis**

JOURNAL · 2025

- **Intercalation of Rhodamine B Dye into Zinc-Aluminum Layered Double Hydroxides: Structural, Textural, and Morphological Insights**

JOURNAL · 2025

- **Design and evaluation of zinc-aluminium layered double hydroxide-palmitic acid nanocomposites: synthesis, characterization and antimicrobial properties**

JOURNAL · 2025

- **Interlayer Expansion and Morphological Transformation of Zinc-Aluminium Anionic Clay through Methyl Orange Intercalation**

JOURNAL · 2025

- **Discovering Decolourization Potential of Remazol Brilliant Blue R (RBBR) Dye by Fungal Monoculture and Consortium (Penicillium sp. and Aspergillus sp.)**

JOURNAL · 2025

- **Synthesis of novel ternary herbicide-layered double hydroxide hybrids via the ion exchange method**

JOURNAL · 2025

- **Optimization of glutaraldehyde crosslinked chitosan beads for removal of nickel from water samples**

PROCEEDING · 2025

- **Hirshfeld, surface analysis, DFT and corrosion inhibition mechanism of vanillin 4-ethylthiosemicarbazone on mild steel in 1M HCl**
JOURNAL · 2025
- **In-depth investigation of corrosion inhibition mechanism: Computational, electrochemical, and theoretical studies of vanillin meldrum's acid on mild steel surface in 1 M HCl**
JOURNAL · 2024
- **Photocatalytic Degradation of Phenol using Copper-Doped Graphitic Carbon Nitride under Fluorescent and Sunlight Irradiation**
JOURNAL · 2024
- **Corrosion Inhibitory Evaluation of Indole-3-Carbaldehyde 4-Methyl-3-Thiosemicarbazone on Mild Steel: Weight Loss, Langmuir Isotherm, SEM-EDX and DFT Analysis**
JOURNAL · 2024
- **Optimisation of the corrosion inhibition performance of isatin 4-ethyl-3-thiosemicarbazone for mild steel in sulfuric acid medium using response surface methodology**
JOURNAL · 2024
- **DETERMINATION OF THE POSSIBILITY OF THE SYNTHESIS OF ZN-AL LAYERED DOUBLE HYDROXIDES, INTERCALATED WITH PROXYANIONS, AS A PERSPECTIVE SOLID DISINFECTANT**
JOURNAL · 2024
- **Ultrasound-assisted phyto-mediated synthesis of SnO₂ nanoparticles as photocatalyst in tetracycline photocatalytic oxidation**
JOURNAL · 2024
- **Ultrasound-assisted green synthesis of single phase Fe₃O₄ nanoparticles and its photocatalytic study for tetracycline photooxidation**
JOURNAL · 2024
- **Synthesis and corrosion inhibitory mechanism study of butyltin(IV) dithiocarbamate in 1 M HCl: Weight loss, electrochemical, langmuir isotherm, surface and DFT analysis**
JOURNAL · 2024
- **High-efficiency recyclable reduced graphene oxide-tin oxide nanocomposite catalyst for esterification**
JOURNAL · 2024
- **A Review on Synthesis and Physicochemical Properties-Photocatalytic Activity Relationships of Carbon Quantum Dots Graphitic Carbon Nitride in Reduction of Carbon Dioxide**
JOURNAL · 2023
- **Study on particle size and field effect with sp²/sp³ ratio of hydrogenated diamond-like carbon**
JOURNAL · 2023
- **DFT, Fukui indices, and molecular dynamic simulation studies on corrosion inhibition characteristics: a review**
JOURNAL · 2023
- **Unlocking the Microbial Potential of Intercalated Calcium-aluminum Layered Double Hydroxide-palmitic Acid**
JOURNAL · 2023
- **Zinc Layered Hydroxide 2-methyl-4-chlorophenoxyacetate: Synthesis via ZnO, Characterization and Effect on Seed Germination**
JOURNAL · 2023
- **The Effect of Conventional and Nanoformulation Herbicide on Sphagneticola Trilobata**
JOURNAL · 2023
- **Response Surface Methodology for Optimization of Citrullus lanatus Rind Extraction Conditions, Phytochemical Screening and its Antioxidant Activities**
JOURNAL · 2023
- **Synthesis and characterization of bismuth copper tantalate pyrochlore**
PROCEEDING · 2023
- **Studies on the intercalation of calcium-aluminium layered double hydroxide- MCPA and its controlled release mechanism as a potential green herbicide**
JOURNAL · 2023

- **Graphene quantum dots: A comprehensive overview**

JOURNAL · 2023

- **The Synthesis, Characterisation, and Adsorption Study of Novel 4- Ethyl-3-Thisemicarbazone Microcrystalline Cellulose**

JOURNAL · 2023

- **Geopolymer from tin mining tailings waste using Salacca leaves ash as activator for dyes and peat water adsorption**

JOURNAL · 2023

- **The Effect of Nanofertilizer in Grain Corn Germination and Growth Rate**

JOURNAL · 2022

- **QUALITATIVE AND QUANTITATIVE PHYTOCHEMICAL ANALYSIS AND ANTIOXIDANT ACTIVITIES OF ARECA CATECHU NUT HUSK**

JOURNAL · 2022

- **Synthesis and Characterization of 2,4-Dichlorophenoxypropanoic Acid (2,4-DP) Herbicide Interleaved into Calcium-Aluminium Layered Double Hydroxide and the Study of Controlled Release Formulation**

JOURNAL · 2022

- **Reusable Catalyst of KF/Mg-Al Layered Double for Biodiesel Conversion and Optimization using Bohn- Behnken Design**

JOURNAL · 2022

- **A BRIEF REVIEW ON CORROSION INHIBITION STUDY OF ORGANIC LIGAND: ELECTROCHEMICAL, MORPHOLOGY, AND ISOTHERM STUDIES**

JOURNAL · 2022

- **Synthesis, characterisation and corrosion inhibition screening on 2-chloroacetophenone 4-ethyl-3-thiosemicarbazone: morphology, weight loss and DFT studies**

JOURNAL · 2022

- **Synthesis, Characterisation and Corrosion Inhibition of Mild Steel by Butyltin(IV) 2-Acetylpyridine 4-Methyl-3-Thiosemicarbazone in HC**

JOURNAL · 2022

- **Assessment of heavy metals in wastewater plant effluent and lake water by using atomic absorption spectrophotometry**

JOURNAL · 2022

- **SYNTHESIS, CHARACTERIZATION AND CORROSION INHIBITION SCREENING OF Co(II) DITHIOCARBAMATE COMPLEXES: Co[BuMedtc]2 AND Co[EtBenzdte]2**

JOURNAL · 2022

- **Analytical Separation Method: A Student's Perception on Analogy-based Teaching for Terminology**

JOURNAL · 2022

- **Surface Functionalized Halloysite with N-[3-(Trimethoxysilyl)Propyl] Ethylenediamine for Chromium and Nickel Adsorption from Aqueous Solution**

JOURNAL · 2022

- **Recyclable Catalyst of ZnO/SiO₂ Prepared from Salacca Leaves Ash for Sustainable Biodiesel Conversion**

JOURNAL · 2022

- **Ni(II) Butylmethyldithiocarbamate: Physico-Chemical Properties, X-Ray Crystallography, DFT and Anti-Corrosion Screening in Different Acids**

JOURNAL · 2021

- **SYNTHESIS AND CHARACTERISATION OF 4-CHLOROPHENOXYACETIC ACID HERBICIDE INTERCALATED INTO CALCIUM-ALUMINIUM LAYERED DOUBLE HYDROXIDE THROUGH CO-PRECIIPITATION METHOD**

JOURNAL · 2021

- **Flower-like SnO₂ Nanoparticle Biofabrication Using Pometia Pinnata Leaf Extract and Study on Its Photocatalytic and Antibacterial Activities**

JOURNAL · 2021

- **Biosynthesized gold nanoparticles-doped hydroxyapatite as antibacterial and antioxidant nanocomposite**

JOURNAL · 2021

- **Synthesis and applications of calcium-aluminum layered double hydroxides - an overview**
JOURNAL · 2021
- **Synthesis of Hybrid Organic-Inorganic Hydrotalcite-Like Materials Intercalated with Duplex Herbicides: The Characterization and Simultaneous Release Properties**
JOURNAL · 2021
- **Synthesis of calcium-aluminium layered double hydroxide nanohybrid material: A review**
PROCEEDING · 2021
- **Characterization, physicochemical, controlled release studies of zinc-aluminium layered double hydroxide and zinc layered hydroxide intercalated with salicylic acid**
JOURNAL · 2021
- **Synthesis and Characterisation of Zinc Layered Hydroxide Intercalated with 2-Methyl-4-Chlorophenoxyacetic Acid and its Controlled Release Application**
JOURNAL · 2021
- **Review: Synthesis, Characterization and Studies on Controlled Release Properties of Layered Compound**
JOURNAL · 2021
- **The synthesis and characterization of layered hydroxide salt interleaved with 4-chlorophenoxyacetic acid and its controlled release study as herbicide**
PROCEEDING · 2021
- **New synthesis of binate herbicide-interleaved anionic clay material: synthesis, characterization and simultaneous controlled-release properties**
JOURNAL · 2021
- **Interleaving of 2,4-Dichlorophenoxyacetate Acid into Calcium-Aluminium-Layered Double Hydroxide by Comparison of Co-Precipitation and Ion Exchange Methods**
JOURNAL · 2020
- **STUDY ON THE OXIDATION AND PROPERTIES OF DIHYDROXYL CELLULOSE USING DIFFERENT AMOUNTS OF SODIUM PERIODATE**
JOURNAL · 2020
- **Characterization of Interleaved Zinc-Layered Hydroxide-Salicylic with Sustained Release Property: A New Promising Ultraviolet Absorber**
JOURNAL · 2020
- **Adsorption-Desorption Profile of Methylene Blue Dye on Raw and Acid Activated Kaolinite**
JOURNAL · 2020
- **Phytochemical analysis and biological activity of Melastoma Malabathricum and Dissochaeta gracilis.**
JOURNAL · 2020
- **Physicochemical Characterization and Controlled Release Formulation on Intercalated 2-Methyl-4-chlorophenoxy Acetic Acid-Graphite Oxide (MCPA-GO) Nanocomposite**
JOURNAL · 2020
- **Synthesis, Characterisation, Crystal Structure and Anti-corrosion Studies of an Organotin(IV) Complex of 2-acetylpyridine 4-ethyl-3-thiosemicarbazone (LH): n-BuSn(L)Cl₂**
JOURNAL · 2019
- **ELECTROCHEMICAL STUDIES OF THIOSEMICARBAZONE DERIVATIVE AND ITS TIN(IV) COMPLEX AS CORROSION INHIBITOR FOR MILD STEEL IN 1 M HYDROCHLORIC ACID**
JOURNAL · 2019
- **Intercalations and Characterization of Zinc/Aluminium Layered Double Hydroxide-Cinnamic Acid**
JOURNAL · 2019
- **Electrochemical Studies on Corrosion Inhibition Behaviour of Synthesised 2-acetylpyridine 4-ethyl-3-thiosemicarbazone and Its Tin(IV) Complex for Mild Steel in 1 M HCl Solution**
JOURNAL · 2019

- **Synthesis, Structural, Density Functional Theory, and X-Ray Diffraction Study of Zn(II) N-Isopropylbenzylthiocarbamate: Anti-Corrosion Screening in Acid Media**

JOURNAL · 2018

- **SYNTHESIS, CHARACTERISATION AND EFFECT OF TEMPERATURE ON CORROSION INHIBITION BY THIOSEMICARBAZONE DERIVATIVES AND ITS TIN(IV) COMPLEXES**

JOURNAL · 2018

- **Magnesium-impregnated biochar for the removal of total phosphorous from artificial human urine**

JOURNAL · 2018

- **PREPARATION OF DATE SEED ACTIVATION FOR SURFACTANTRECOVERY**

JOURNAL · 2017

- **Synthesis and Physico-Chemical Properties of Zinc Layered Hydroxide-4-Chloro-2MethylphenoxyAcetic Acid (ZMCPA) Nanocomposite**

PROCEEDING · 2017

- **Physicochemical study of 3,4-Dichlorophenoxyacetic Acid Intercalatedinto hydrotalcite-like compound by ion exchanged method**

JOURNAL · 2016

- **Intercalation, Physicochemical and Controlled Release Studiesof Organic-Inorganic -Herbicide (2, 4, 5 Trichlorophenoxy Butyric Acid) Nanohybrid into Hydrotalcite-Like Compounds**

JOURNAL · 2015

- **Synthesis of dual herbicides-intercalated hydrotalcite-like nanohybrid compound with simultaneous controlled release property**

JOURNAL · 2015

- **Physicochemical study of 3,4-Dichlorophenoxyacetic Acid Intercalatedinto hydrotalcite-like compound by ion exchanged method**

PROCEEDING · 2014

- **Layered Double Hydroxide as Carrier of Herbicide, 2-Methyl-4-Chlorophenoxy Acetic Acid: Physicochemical Characterization and Controlled Release Properties**

JOURNAL · 2013

- **3,4-Dichlorophenoxyacetate interleaved into anionic clay for controlled release formulation of a new environmentally friendly agrochemical**

JOURNAL · 2013

- **Synthesis of nanocomposite 2-methyl-4-chlorophenoxyacetic acid with layered double hydroxide: physicochemical characterization and controlled release properties**

JOURNAL · 2012

- **The effect of zinc to aluminium molar ratio on the physico-chemical properties of Zinc-Aluminium-3,4-Dichlorophenoxy Acetate nanocomposite**

PROCEEDING · 2012

- **Formation of zinc-aluminium layered double hydroxide-2,4,5- trichlorophenoxybutyrate nanocomposites by ion exchange method**

PROCEEDING · 2012

- **Critical Internal and External Factors that affect Firms Strategic Planning**

JOURNAL · 2010

- **Garcinia mangostana: a source of potential anti-cancer compounds against CEM-SS cell line**

JOURNAL · 2008

- **γ-Mangostin and Rubraxanthone, two potential lead compounds for Anti-cancer activity against CEM-SS cell line**

JOURNAL · 2006

► OTHERS (87)

- **CONVERGING CHEMICAL AND BIOLOGICAL SCIENCES FOR A SUSTAINABLE ERA**

RESEARCH BOOK · 2025

- **Bengkel Perancangan Strategik Pengajaran dan Pembelajaran Pusat Pengajian Kimia dan Alam Sekitar bagi Tahun 2024.**
NEWSLETTER · 2024
- **Majlis Apresiasi GOP 6.0 dan VISoS 3.0 Pusat Pengajian Kimia dan Alam Sekitar bagi Tahun 2024.**
NEWSLETTER · 2024
- **Laporan Tahunan Anugerah Kualiti Rektor Antara Bahagian (AKRAB): Pusat Pengajian Kimia dan Alam Sekitar, Universiti Teknologi MARA Cawangan Negeri Sembilan 2023**
CASE STUDY/TECHNICAL REPORT · 2024
- **FUNDAMENTAL CHEMISTRY FOR STEM C STUDENTS**
BOOK · 2024
- **TIKTOK: PENGGUNAAN KREATIF DARI SUDUT PEMBELAJARAN KIMIA**
MAGAZINE · 2024
- **SYARAHAN JEMPUTAN BERSAMA PENSYARAH DAN PELAJAR UNIVERSITAS NEGERI MALANG, INDONESIA**
NEWSLETTER · 2024
- **MAJLIS ANUGERAH: PROJEK PENYELIDIKAN TAHUN AKHIR (FSG671) PUSAT PENGAJIAN KIMIA DAN ALAM SEKITAR**
NEWSLETTER · 2024
- **Global Outreach Programme 6.0 Sebagai Medium Aktiviti Kolaborasi Peringkat Antabangsa**
NEWSLETTER · 2023
- **PEMERKASAAN PENYEDIAAN PROPOSAL PELAJAR TAHUN AKHIR: PUSAT PENGAJIAN KIMIA DAN ALAM SEKITAR (PPKAS)**
NEWSLETTER · 2023
- **Aktiviti Latihan Dalam Kumpulan Program GOP 6.0 : Blossom the Ideas**
NEWSLETTER · 2023
- **Perbincangan Dua Hala Di Antara Pusat Pengajian Kimia dan Alam Sekitar bersama Empat Universiti Indonesia Sempena Global Outreach Programme 6.0**
NEWSLETTER · 2023
- **PUSAT PENGAJIAN KIMIA DAN ALAM SEKITAR UITM CAWANGAN NEGERI SEMBILAN TELAH MENGANJURKAN 3 MINUTERS RESEARCH PRESENTATION COMPETITION SEMPERNA GLOBAL OUTREACH PROGRAM 6.0, 2023 @3MRP@GOP6.0**
NEWSLETTER · 2023
- **Inisiatif Meningkatkan Perolehan Geran Penyelidikan Jabatan PPKAS**
NEWSLETTER · 2023
- **GLOBAL OUTREACH PROGRAMME (GOP 6.0): PLATFORM UITM MENUJU KE GLOBALLY RENOWN UNIVERSITY 2025**
PROCEEDING · 2023
- **GENERAL CHEMISTRY: WORKBOOK**
BOOK · 2023
- **Workbook Basic Chemistry for STEM C**
BOOK · 2023
- **Laporan Tahunan Anugerah Kualiti Rektor Antara Bahagian (AKRAB): Pusat Pengajian Kimia dan Alam Sekitar, Universiti Teknologi MARA Cawangan Negeri Sembilan**
CASE STUDY/TECHNICAL REPORT · 2023
- **PROJEK PENYELIDIKAN TAHUN AKHIR KE PENERBITAN BERIMPAK**
ELECTRONIC MEDIA · 2023
- **Bengkel Penulisan Ilmiah Berimpak**
NEWSLETTER · 2023
- **Ceramah Kerjaya PPKAS: " Chemistry Graduates in Fragrance and Oleochemistry Industry"**
NEWSLETTER · 2023

- **Penetapan Strategi dan Hala Tuju Pusat Pengajian Kimia dan Alam Sekitar ke Arah Mendokong Pencapaian Petunjuk Prestasi UiTM Cawangan Negeri Sembilan 2023**

MAGAZINE · 2023

- **INTRODUCTION TO CHEMISTRY I (CHM011): Laboratory Manual**

BOOK · 2023

- **Krisis Iklim: Bersediakah Kita?**

MAGAZINE · 2023

- **CSR RAMADHAN PPKAS PRIHATIN – MASYARAKAT DISANTUNI**

NEWSLETTER · 2022

- **New Safe Agrochemical for Agricultural Sector**

BOOK · 2022

- **Misteri Kromatografi**

BOOK · 2022

- **CHEMISTRY WORKBOOK FOR PRE-DIPLOMA SCIENCE**

BOOK · 2022

- **A new nano-dual-herbicide for agriculture purposes**

CHAPTER IN BOOK · 2022

- **COMPARATIVE STUDY OF METHODS FOR TEACHING PERIODIC TABLE 'PT MADE EASY' IN CHEMISTRY SUBJECT**

PROCEEDING · 2022

- **LAPORAN TAHUNAN 2021, INSTITUT KEPIMPINAN PELAJAR**

MODULE/MANUAL · 2022

- **LEADERS - Lead Effectively, Amiable and Dynamic, Excellent and Responsible for Success**

NEWSLETTER · 2022

- **Kaedah Pengajaran CHM510: Dari Sudut Pandang Pelajar**

PROCEEDING · 2021

- **The 2nd Virtual Symposium on Sciences 2021 Programme Book**

ELECTRONIC MEDIA · 2021

- **NEW SAFE AGROCHEMICAL FOR AGRICULTURAL SECTOR**

RESEARCH BOOK · 2021

- **Laporan Tahunan 2020, Institut Kepimpinan Pelajar**

MONOGRAPH · 2021

- **Evaluation of Heavy Metals Concentration in Milk Products by using Atomic Absorption Spectroscopy**

JOURNAL · 2021

- **LEADERS - Lead Effectively, Amiable and Dynamic, Excellent and Responsible for Success**

NEWSLETTER · 2021

- **GRAPHENE QUANTUM DOTS**

MAGAZINE · 2021

- **NEW FRIENDLY ENVIRONMENTAL AROCHEMICAL HERBICIDE**

EXHIBITION · 2020

- **SYNTHESIS AND CHARACTERIZATION OF HERBICIDE-4-CHLOROPHENOXYACETATE INTERLEAVED INTO LAYERED HYDROXIDE SALT AND ITS CONTROL RELEASE STUDY**

PROCEEDING · 2020

- **NANOHIBRID AGROKIMIA PEMBUNUH TUMBUHAN PEROSAK**

MAGAZINE · 2020

- **Laporan Akrab PPKAS UiTM Cawangan Negeri Sembilan 2019**
CASE STUDY/TECHNICAL REPORT · 2019
- **Synthesis and Physiochemical Properties of Zinc Layered Hydroxide-Cinnamate**
JOURNAL · 2018
- **The Effect of Different Concentration of 2-Methyl-4ChlorophenoxyAcetate Acid on Graphite Oxide Intercalation Nanohybrid**
JOURNAL · 2018
- **Laporan AKRAB2018-PPKAS**
CASE STUDY/TECHNICAL REPORT · 2018
- **BioVite**
EXHIBITION · 2018
- **Development of Herbicide Delivery System Based on Magnesium Aluminium 4- Chlorophenoxyacetic Acid (Mac) Nanocomposite**
JOURNAL · 2017
- **Laporan AKRAB 2017-PPKAS UiTM CNS**
CASE STUDY/TECHNICAL REPORT · 2017
- **Optimization condition of isolation cellulose nanofibrils using NaOH alkaline treatment**
JOURNAL · 2017
- **NANO SUNBLOCK**
CHAPTER IN BOOK · 2017
- **A Potential of Thiosemicarbazones as Corrosion Inhibitors for Industrial Cleaning Process**
CHAPTER IN BOOK · 2017
- **Synthesis and controlled release characterization of zinc-aluminium-herbicide hybrid nanomaterial**
NEWSLETTER · 2016
- **intercalations of pamoic acid, ascorbic acid, gallic acid and its controlled release properties**
CHAPTER IN RESEARCH BOOK · 2016
- **SYNTHESIS OF GALLIC ACID-LAYERED DOUBLE HYDROXIDE BY DIRECT METHOD AND ITS CONTROLLED RELEASED PROPERTIES**
CHAPTER IN BOOK · 2016
- **INTEGRATION AND ANALYSIS OF ZINC ALUMINUM LAYERED DOUBLE HYDROXIDE-2-OXO-L-THREO-HEXANO-1,4-LACTONE-2,3-ENEDIOL AND ITS CONTROLLED RELEASE PROPERTIES WITH VARIOUS TYPES OF AQUEOUS MEDIA**
CHAPTER IN BOOK · 2016
- **SYNTHESIS OF LAYERED DOUBLE HYDROXIDE 4,4-METHYLENEBIS(3-HYDROXY-2-NAPHTHANOIC ACID VIA DIRECT CO PRECIPATATIION METHOD AND CONTROLLED RELEASE PROPERTIES**
CHAPTER IN BOOK · 2016
- **Synthesis of Used Frying Oil-Based Polyol for Rigid Polyurethane Foam**
CHAPTER IN BOOK · 2016
- **Synthesis, Characterization and Anti-Corrosion Screening of Cu(II) 4-Acetylpyridine 4-Ethyl-3-Thiosemicarbazone**
CHAPTER IN BOOK · 2016
- **Laboratory Manual For Basic Chemistry 1 Pre Science Series**
BOOK · 2013
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- INVITED SPEAKER ISTEK 2023

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- BENGKEL KERJA PENILAIAN KERTAS KAJIAN KONVENSYEN PENYELIDIKAN, KOMUNITI PEMBELAJARAN PROFESIONAL DAN INOVASI PENDIDIKAN PROGRAM MATRIKULAS PENDIDIKAN

KEMENTERIAN PELAJARAN MALAYSIA BAHAGIAN MATRIKULASI · 2022

- THESIS CONSULTATION

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- KETUA JURI

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- DECOTA PROGRAMME UIVERSITAS AIRLANGGA INDONESIA

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SUPERVISIONS

► **PHD ONGOING** (1)

- **SYNTHESIS, OPTIMIZATION AND CHARACTERIZATION OF ZINC-ALUMINIUM LAYERED DOUBLE HYDROXIDES INTERCALATED WITH ORGANIC DYES FOR CONTROLLED RELEASE AND CORROSION INHIBITION APPLICATIONS**

NORLAILA BINTI RAMLEE · PHD

► **MASTER COMPLETED** (8)

- **Optimization and Mechanistic Study of Meldrum's Acid Derivatives for Corrosion Resistance: Employing Response Surface Methodology, Surface Techniques, and Density Functional Theory**

MUHAMMAD AZHAN ARIF BIN MANSOR · MASTERS

- **SYNTHESIS, CHARACTERISATION AND CORROSION INHIBITION MECHANISM ON NOVEL MELDRUM'S ACID THIOSEMICARBAZONE DERIVATIVES: EXPERIMENTAL AND THEORY STUDIES**

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- **SYNTHESIS AND CHARACTERIZATION OF CINNAMIC ACID INTERCALATED INTO ZINC-ALUMINIUM LAYERED DOUBLE HYDROXIDE AND ITS CONTROLLED RELEASED PROFILE**

ALSYA HANEEZA BINTI MOHD SHAH · MASTERS

- **SYNTHESIS, CHARACTERISATION AND CORROSION INHIBITION STUDY ON ORGANOTIN(IV) DITHIOCARBAMATE COMPLEXES: ELECTROCHEMICAL AND DFT STUDIES**

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- **THE INTERCALATION OF CALCIUM - ALUMINIUM LAYERED DOUBLE HYDROXIDE HERBICIDES AND ITS CONTROLLED RELEASE BEHAVIOUR**

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- **INTERCALATIONS OF CINNAMATE AND BENZOPHENONE-3 INTO ZINC LAYERED HYDROXIDE AND ZINC-ALUMINIUM LAYERED DOUBLE HYDROXIDE AND ITS SUSTAINED RELEASE PROFILE WITH VARIOUS SIMULATION MEDIA**

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