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ZAHARI**

PENSYARAH UNIVERSITI DS14

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Faculty: Fakulti Sains
Dan Teknologi

SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 3,
Ongoing: 1

AREAS OF EXPERTISE

Magnetic Materials

Nano Materials

Ionic Liquids

Biomass Products

Cellulosic And Fibre Technology (including Nano Cellulosic Materials)

ACADEMIC QUALIFICATION

PhD in Kimia (2016)

Master in Kejuruteraan Kimia (2011)

Bachelor in Kimia Perindustrian (2008)

RESEARCH

1. CONVERSION OF SACRED-PAPER-DERIVED GLUCOSE TO OXYGEN-RICH GAS VIA ANAEROBIC DIGESTION AS AN ALTERNATIVE TO INCINERATING SACRED PAPER

2024 GERAN PENYELIDIKAN TRANSDISIPLINARI ON GOING MAIN RESEARCHER

2. PROGRAM : CONVERSION OF WASTE-PAPER-DERIVED GLUCOSE TO OXYGEN-RICH GAS VIA ANAEROBIC DIGESTION: TOWARDS INTEGRATING NAQLI & AQLI PROJEK: PENUKARAN GLUKOSA DARI KERTAS KEPADA GAS OKSIGEN MELALUI PENCERNAAN ANAEROBIK SEBAGAI ALTERNATIF PEMBAKARAN KERTAS S

2024 GERAN PENYELIDIKAN TRANSDISIPLINARI ON GOING CO-RESEARCHER

3. ELIMINATING CYANOGEN IN CASSAVA FOR CROP IMPROVEMENT USING CLUSTERED REGULARLY INTERSPACED SHORT PALINDROMIC REPEATS (CRISPR)

2024 GERAN KPT ON GOING CO-RESEARCHER

**4. STUDY OF MECHANICAL PROPERTIES OF
POLYHYDROXYALKANOATES (PHA) BLEND FROM FOOD
WASTE VIA ADDITIVE MANUFACTURING FOR MEDICAL
APPLICATIONS**

2020 GERAN KPT COMPLETED CO-RESEARCHER

**5. CONVERSION OF PAPER WASTE CONTAINING HOLY
WORDS TO LACTIC ACID: TOWARDS INTEGRATING NAQLI
AND AQLI**

2019 GERAN KPT COMPLETED MAIN RESEARCHER

RESEARCH

6. PHYSICOCHEMICAL PROPERTIES OF MODIFIED PHOSPHOMOLYBDIC ACID/HYDROTALCITE CATALYZED HYDROLYTIC OXIDATION OF CELLULOSE TO FORMIC ACID

2019

GERAN KPT

COMPLETED

CO-RESEARCHER

7. MAGNETITE-POLYVINYLPYRROLIDONE NANOCOMPOSITES AS ADSORBENTS FOR THE REMOVAL OF OIL SPILLS FROM AQUEOUS ENVIRONMENTS

2018

GERAN PENYELIDIKAN USIM

COMPLETED

MAIN RESEARCHER

8. ELUCIDATION OF MEAT QUALITY IN HALAL AND NON-HALAL BROILER CHICKEN USING METABOLOMICS APPROACH

2017

GERAN KPT

COMPLETED

CO-RESEARCHER

PUBLICATION

1. CABARAN KONTEMPORARI DALAM MEMBENTUK KEPIMPINAN DAN SAHSIAH PELAJAR: STRATEGI PENGETUA-PENGETUA DI UNIVERSITI SAINS ISLAM MALAYSIA

SEMINAR PENGURUSAN ASRAMA PERINGKAT KEBANGSAAN 2024 (SPARK 2024)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

2. ISU DAN CABARAN MEDIA SOSIAL TERHADAP PEMBANGUNAN SAHSIAH PELAJAR: PENGALAMAN DALAM KALANGAN PENGETUA DI UNIVERSITI SAINS ISLAM MALAYSIA

SEMINAR PENGURUSAN ASRAMA PERINGKAT KEBANGSAAN (SPARK 2024)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

3. UTILIZATION OF TRIETHYLAMMONIUM HYDROGEN SULPHATE-MEDIATED SOLVENT FOR OPTIMIZATION OF ASIATICOSIDE EXTRACTION AND ANTIOXIDANT CAPACITY OF CENTELLA ASIATICA (L.)

JOURNAL OF KING SAUD UNIVERSITY - SCIENCE

2023 JOURNAL SCOPUS CORRESPONDING AUTHOR

4. IRON MAGNETIC NANOPARTICLES COATED WITH DIFFERENT LOADINGS OF POLYVINYLPYRROLIDONE: EVALUATION OF MAGNETIC PROPERTIES AND MORPHOLOGY

INORGANIC CHEMISTRY COMMUNICATIONS

2023 JOURNAL ERA CORRESPONDING AUTHOR

5. APPLICATIONS OF IONIC LIQUIDS FOR THE BIOCHEMICAL TRANSFORMATION OF LIGNOCELLULOSIC BIOMASS INTO BIOFUELS AND BIOCHEMICALS: A CRITICAL REVIEW

BIOCHEMICAL ENGINEERING JOURNAL

2023 JOURNAL ERA CO-AUTHOR

6. OPEFB PRETREATMENT USING THE LOW-COST N,N,N-DIMETHYLBUTYLAMMONIUM HYDROGEN SULFATE IONIC LIQUID UNDER VARYING CONDITIONS

SCIENTIFIC REPORTS

2023 JOURNAL SCOPUS CORRESPONDING AUTHOR

7. UNDERSTANDING THE CATION EXCHANGE AFFINITY IN MODIFIED-MMT CATALYSTS FOR THE CONVERSION OF GLUCOSE TO LACTIC ACID

RSC ADVANCES

2023 JOURNAL ISI CORRESPONDING AUTHOR

8. DIRECT CATALYTIC CONVERSION OF CELLULOSE INTO FORMIC ACID BY SUPPORTED PHOSPHOTUNGSTIC ACID CATALYST

MALAYSIAN JOURNAL OF ANALYTICAL SCIENCES

2022 JOURNAL SCOPUS CO-AUTHOR

9. INFLUENCE OF NECK SLAUGHTERING IN BROILER CHICKEN MEAT ON PHYSICOCHEMICAL ANALYSIS AND METABOLITES ?FINGERPRINTING? TO ENHANCE MEAT QUALITY

ARABIAN JOURNAL OF CHEMISTRY

2021 JOURNAL ISI CO-AUTHOR

10. IDENTIFICATION OF METABOLITE PROFILE IN HALAL AND NON-HALAL BROILER CHICKENS USING FOURIER-TRANSFORM INFRARED SPECTROSCOPY (FTIR) AND ULTRA HIGH PERFORMANCE LIQUID CHROMATOGRAPHY- TIME OF FLIGHT- MASS SPECTROMETRY (UHPLC-TOF-MS)

JOURNAL OF THE MALAYSIAN SOCIETY OF APPLIED BIOLOGY

2020 JOURNAL SCOPUS CO-AUTHOR

11. INTEGRATED GREEN MEMBRANE DISTILLATION-MICROALGAE BIOREMEDIATION FOR ARSENIC REMOVAL FROM PENGORAK RIVER KUANTAN, MALAYSIA

CHEMICAL ENGINEERING AND PROCESSING: PROCESS INTENSIFICATION

2020 JOURNAL ERA CO-AUTHOR

12. A PRELIMINARY STUDY OF CATALYTIC HYDROTHERMAL CONVERSION OF CELLULOSE TO LACTIC ACID: EFFECTS OF REACTION TEMPERATURE AND METAL ION CATALYST

JOURNAL OF PHYSICS: CONFERENCE SERIES

2020 JOURNAL SCOPUS MAIN AUTHOR

13. EFFECT OF DIFFERENT SLAUGHTERING METHODS ON METABOLITES OF BROILER CHICKENS USING ULTRA HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-TIME OF FLIGHT-MASS SPECTROMETRY (UHPLC-TOF-MS)

FOOD RESEARCH

2020

JOURNAL

SCOPUS

CO-AUTHOR

PUBLICATION

14. UNCATALYSED POLYCONDENSATION OF LACTIC ACID TO POLYLACTIC ACID UNDER MICROWAVE IRRADIATION: EFFECT OF MICROWAVE POWER

JOURNAL OF PHYSICS.: CONFERENCE SERIES

2020 JOURNAL SCOPUS MAIN AUTHOR

15. TRIETHYLAMMONIUM HYDROGEN SULFATE IONIC LIQUID AS A LOW-COST SOLVENT: A SHORT REVIEW OF SYNTHESIS, ANALYSIS AND APPLICATIONS

MATEC WEB OF CONFERENCES

2019 JOURNAL PROQUEST MAIN AUTHOR

16. STABILITY OF CELLULASES IN IONIC LIQUIDS

MALAYSIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2019 JOURNAL INDEXED BY WOS CO-AUTHOR

17. POLY(VINYLPYRROLIDINONE)-IRON MAGNETIC NANOCOMPOSITES AS SORBENTS FOR EFFECTIVE OIL REMOVAL FROM WATER

AIP CONFERENCE PROCEEDINGS

2018 JOURNAL SCOPUS MAIN AUTHOR

18. APPLICATION OF NANOCATALYST IRON OXIDE (Fe₂O₃) TO REDUCE EXHAUST EMISSIONS (CO AND HC)

IOP CONFERENCE SERIES: MATERIALS SCIENCE AND ENGINEERING

2018 JOURNAL WOS CO-AUTHOR

19. DECONSTRUCTION OF MALAYSIAN AGRO-WASTES WITH INEXPENSIVE AND BIFUNCTIONAL TRIETHYLAMMONIUM HYDROGEN SULFATE IONIC LIQUID

AIP CONFERENCE PROCEEDINGS

2018 JOURNAL SCOPUS MAIN AUTHOR

20. ANALYSIS OF HARDNESS, QUALITY AND FLUIDITY AL-SI CASTING RESULT BY USING CLAMSHELL (PLACUNA PLACENTA) AS THE MIXTURE OF SAND MOULDING

JOURNAL OF MECHANICAL ENGINEERING SCIENCE AND TECHNOLOGY

2018 JOURNAL WOS CO-AUTHOR

21. AN EASY AND RELIABLE METHOD FOR SYRINGYL: GUAIACYL RATIO MEASUREMENT

TAPPI JOURNAL

2017 JOURNAL WOS CO-AUTHOR

22. KINETICS OF SURFACTIN PRODUCTION BY BACILLUS SUBTILIS IN A 5 L STIRRED-TANK BIOREACTOR

SAINS MALAYSIANA

2017 JOURNAL WOS CO-AUTHOR

23. DESIGN OF LOW-COST IONIC LIQUIDS FOR LIGNOCELLULOSIC BIOMASS PRETREATMENT

GREEN CHEMISTRY

2015 JOURNAL WOS CO-AUTHOR

CONSULTATION

1. RESOURCE CIRCULARITY OF LITHIUM-ION BATTERIES WASTE

PETRONAS RESEARCH SDN BHD

2022

NATIONAL

AWARDS/RECOGNITION

1. ANUGERAH PENYELIA TERBILANG

2025 UNIVERSITY

2. ANUGERAH PENYELIDIKAN INAQ

2025 UNIVERSITY

3. ANUGERAH PENERIMA GERAN PENYELIDIKAN

2025 UNIVERSITY

4. ANUGERAH PERKEMBANGAN KERJAYA

2025 UNIVERSITY

5. ANUGERAH PERKHIDMATAN CEMERLANG 2023

2024 UNIVERSITY

6. VISITING SCHOLAR

SHIBAURA INSTITUTE OF TECHNOLOGY

2024 INTERNATIONAL

7. CONVERSION OF WASTEPAPER TO GLUCOSE AS AN ALTERNATIVE TO INCINERATION: TECHNO-ECONOMIC ANALYSIS AND SAFETY ASSESSMENT

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITY SILVER

8. CONVERSION OF WASTEPAPER TO GLUCOSE AS AN ALTERNATIVE TO INCINERATION: TECHNO-ECONOMIC ANALYSIS AND SAFETY ASSESSMENT

SCIENCE AND TECHNOLOGY RESERACH EXPO (SCITEX@20TH FST)

2023 UNIVERSITY GOLD

9. VISITING SCHOLAR

ANKARA UNIVERSITY, TURKEY

2022 INTERNATIONAL

10. SCHOLARSHIP FOR POST-DOCTORAL STUDIES - IMPERIAL COLLEGE LONDON

2021 INTERNATIONAL

11. VISITING FELLOWSHIP

2020 INTERNATIONAL

12. VISITING SCHOLAR

IMPERIAL COLLEGE LONDON

2020 INTERNATIONAL

13. FST RAISING STAR

2019 UNIVERSITY

14. VISITING SCHOLAR

FACULTY OF ENGINEERING, UNIVERSITAS NEGERI MALANG

2019 INTERNATIONAL

AWARDS/RECOGNITION

15. CONVERSION OF GLUCOSE TO LACTIC ACID UNDER MICROWAVE TREATMENT

INTELLECTUAL RESEARCH & INNOVATION SHOWCASE (IRIS 2019)

2019

KEBANGSAAN

SILVER

16. AN ECO-FRIENDLY AND FACILE METHOD FOR OIL-WATER SEPARATION USING PVP-FE MAGNETIC NANOCOMPOSITES

PERTANDINGAN FESTIVAL SAINS, TEKNOLOGI & INOVASI KEBANGSAAN III 2018

2018

KEBANGSAAN

SILVER

17. SOCCER-CHEM

INTERNATIONAL RESEARCH INNOVATION, INVENTION & SOLUTION EXPOSITION (IRIISE)(IRIISE2018)

2018

ANTARABANGSA

BRONZE

18. A GREEN METHOD FOR EXTRACTING HIGH-VALUE BIOPOLYMERS FROM MALAYSIAN AGRICULTURE WASTES USING A LOW-COST IONIC LIQUID

ISLAMIC INNOVATION STUDENT COMPETITION 2018 (IREKA'18)

2018

UNIVERSITI

GOLD