Profile Image

DR. MUHAMMAD AZAN BIN TAMAR JAYA

PENSYARAH UNIVERSITI DS13

CONTACT

PHONE

N/A

E-MAIL

azan@usim.edu.my

FACULTY

Kolej Permata Insan

SUPERVISION

	COMPLETED	ONGOING
PhD	0	0
Master	0	0

AREAS OF EXPERTISE

Other Materials Synthesis And Processing N.e.c

Sorption

Carbon And Activated Carbon

ACADEMIC QUALIFICATION

2018 **PhD** - Kimia

2011 **Master** - Kejuruteraan Kimia

2008 **Bachelor** - Kejuruteraan (kimia)

RESEARCH

1. PEMBANGUNAN KESEDARAN, PERKONGSIAN DAN PANDUAN PENDIDIKAN ANAK-ANAK PINTAR BERBAKAT DI RUMAH MELALUI MODUL DAN PENGLIBATAN KOMUNITI DI DAERAH-DAERAH NEGERI SEMBILAN

2025 · GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) · ON GOING · CO-RESEARCHER

2. ADSORPTION MECHANISM OF AMMONIA BY POROUS CARBONIZED HOLLOW FIBER POLYMER

2024 · GERAN KPT · ON GOING · MAIN RESEARCHER

3. MATHEMATICS CASE STUDY: SPM TRIAL AND SPM AMONG GIFTED AND TALENTED STUDENTS IN KOLEJ PERMATA INSAN

2024 · GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) · ON GOING · CO-RESEARCHER

4. NAQLI APPROACHES ON MATHEMATICAL THINKING AMONG GIFTED AND TALENTED MUSLIM STUDENTS

2024 · GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) · ON GOING · CO-RESEARCHER

5. KEBERKESANAN KAEDAH HAFAZAN TEMATIK DENGAN KURIKULUM PENDIDIKAN PINTAR BERBAKAT INTEGRASI NAQLI DAN 'AQLI KEPADA MURID PINTAR BERBAKAT DI KOLEJ GENIUS INSAN

2021 · GERAN PENYELIDIKAN KHAS · COMPLETED · CO-RESEARCHER

RESEARCH

6. ADSORPTIVE SEPARATION UTILIZING SURFACE-MODIFIED CLINOPTILOLITE AND ACID-TREATED CLINOPTILOLITE IN TREATING PALM OIL MILL EFFLUENT (POME)

2019 | GERAN PENYELIDIKAN USIM | COMPLETED | MAIN RESEARCHER

7. USIMAKERS (INDUSTRY4WRD - INDUSTRY@UNIVERSITY)

2019 | PROJEK REVOLUSI INDUSTRI 4.0 | COMPLETED | CO-RESEARCHER

PUBLICATION

1. RECENT ADVANCES IN METHYLENE BLUE ADSORPTION USING CLINOPTILOLITE: MECHANISMS, MODIFICATIONS, AND FUTURE PERSPECTIVES

IOP CONFERENCE SERIES: EARTH AND ENVIRONMENTAL SCIENCE

2025 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

2. INTEGRATING NAQLI AND AQLI KNOWLEDGE IN MATHEMATICS EDUCATION: QIBLA DETERMINATION USING TONGKAT ISTIWA'

7TH INTERNATIONAL RESEARCH CONFERENCE ON HUMANITIES, SOCIAL SCIENCES AND TECHNOLOGY 2025 (7TH IRCHST 2025)

2025 | PROCEEDING | NON-INDEX | MAIN AUTHOR

3. INTEGRATING NAQLI APPROACHES IN MATHEMATICS LEARNING: DETERMINING THE QIBLAT DIRECTION USING SPHERICAL TRIGONOMETRY

7TH INTERNATIONAL RESEARCH CONFERENCE ON HUMANITIES, SOCIAL SCIENCES AND TECHNOLOGY 2025 (7TH IRCHST 2025)

2025 | PROCEEDING | NON-INDEX | MAIN AUTHOR

4. PROFILING OF TAYAMMUM CLAY PRODUCT IN MALAYSIA BY SPECTROSCOPIC-CHEMOMETRIC APPROACH

PAPER ASIA

2024 | JOURNAL | SCOPUS | CO-AUTHOR

5. COMPARISON OF ADSORPTION CAPACITY BETWEEN PELLETIZED AND POWDERED CLINOPTILOLITE FOR METHYLENE BLUE REMOVAL

5TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE & INNOVATION 2024 (IJURECON 2024)

2024 | PROCEEDING | NON-INDEX | CORRESPONDING AUTHOR

6. HYDROGEN RECOVERY ANALYSES BASED ON LOGSIG ACTIVATION FUNCTIONS IN FEEDFORWARD NEURAL NETWORKS

INTERNATIONAL CONFERENCE ON INNOVATION & ENTREPRENEURSHIP IN COMPUTING, ENGINEERING & SCIENCE EDUCATION (INVENT 2024)

2024 | PROCEEDING | NON-INDEX | CO-AUTHOR

7. KAEDAH HAFAZAN AL-QURAN TEMATIK

2024 | BOOK | CO-AUTHOR

8. BE A MATH HERO

2024 | BOOK | CO-AUTHOR

PUBLICATION

9. REMOVAL OF METHYLENE BLUE DYE USING PALM TRUNK BASED ACTIVATED CARBON VIA MICROWAVE IRRADIATED: OPTIMIZATION, ISOTHERM, KINETIC AND THERMODYNAMIC STUDIES

MALAYSIAN JOURNAL OF MICROSCOPY

2023 JOURNAL SCOPUS CO-AUTHOR

10. OPTIMIZATION AND MASS TRANSFER SIMULATION OF REMAZOL BRILLIANT BLUE R DYE ADSORPTION ONTO MERANTI WOOD BASED ACTIVATED CARBON

ARABIAN JOURNAL OF CHEMISTRY

2023 JOURNAL ISI CO-AUTHOR

11. POLYMER FORMULATION USED INCARBON MEMBRANE SYNTHESIS ANDPERFORMANCE EVALUATION

ASIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2023 JOURNAL OTHER DATABASE MAIN AUTHOR

12. TAMARIND SEED MODIFIED BY CUFE LAYERED FOR CAFFEINE REMOVAL FROM AQUEOUS SOLUTION

EMERGING TECHNOLOGIES FOR FUTURE SUSTAINABILITY PROCEEDINGS OF THE 2ND INTERNATIONAL CONFERENCE ON BIOMASS UTILIZATION AND SUSTAINABLE ENERGY

2023 CHAPTER IN BOOK CO-AUTHOR

13. IMMOBILIZATION OF CANDIDA RUGOSA LIPASE ON THE GLUTARALDEHYDE-ACTIVATED CHITOSAN BEADS

JOURNAL OF CHEMICAL ENGINEERING AND INDUSTRIAL BIOTECHNOLOGY

2022 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

14. ELECTROSPUN NANOFIBER COMPOSITES FOR DRUG DELIVERY: A REVIEW ON CURRENT PROGRESSES

POLYMERS

2022 JOURNAL ERA MAIN AUTHOR / CONTACT PERSON IN USIM

15. POLYMER FORMULATION USED IN CARBON MEMBRANE SYNTHESIS AND PERFORMANCE EVALUATION

3RD KUALA LUMPUR INTERNATIONAL CONFERENCE ON MANAGEMENT, EDUCATION AND TECHNOLOGY(KLIMET 2022)

2022 PROCEEDING NON-INDEX MAIN AUTHOR

16. E-PROCEEDING : 2ND INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2021 (IJURECON 2021) STREAM FOR A BETTER LIFE

2022 BOOK EDITOR

17. E-PROCEEDINGS 3RD INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 BOOK CO-EDITOR

18. 3RD INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 BOOK CO-EDITOR

19. PROCEEDINGS INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE (IJURECON 2021) : STREAM FOR A BETTER LIFE

2022 BOOK EDITOR

20. E-PROCEEDINGS, 3RD INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE 2022

2022 BOOK

PUBLICATION

21. SINGLE-STAGE MICROWAVE-ASSISTED COCONUT-SHELL-BASED ACTIVATED CARBON FOR REMOVAL OF DICHLORODIPHENYLTRICHLOROETHANE (DDT) FROM AQUEOUS SOLUTION: OPTIMIZATION AND BATCH STUDIES

INTERNATIONAL JOURNAL OF CHEMICAL ENGINEERING

2021 | JOURNAL | SCOPUS | MAIN AUTHOR / CONTACT PERSON IN USIM

22. SYNTHESIS AND O2/N2 PERFORMANCE EVALUATION OF HOLLOW FIBER CARBON MEMBRANE OF 2,6-DIMETHYL-1,4-PHENYLENE OXIDE

ASIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2021 | JOURNAL | OTHER DATABASE | MAIN AUTHOR / CONTACT PERSON IN USIM

23. MODIFIED ZEOLITE AS PURIFICATION MATERIAL IN WASTEWATER TREATMENT: A REVIEW

SCIENTIFIC RESEARCH JOURNAL

2021 | JOURNAL | MYCITE | CORRESPONDING AUTHOR

24. SYNTHESIS AND O2/N2 PERFORMANCE EVALUATION OF HOLLOW FIBER CARBON MEMBRANE OF 2,6-DIMETHYL-1,4-PHENYLENE OXIDE

4TH ASNET INTERNATIONAL MULTIDISCIPLINARY ACADEMIC CONFERENCE 2021 (AIMAC 2021)

2021 | PROCEEDING | NON-INDEX | MAIN AUTHOR

25. E-PROCEEDING IJURECON 2020 INSAN JUNIOR RESEARCHER CONFERENCE

2021 | BOOK | EDITOR

26. CLINOPTILOLITE WITH ITS MODIFICATION WITH DIFFERENT TYPES OF SURFACTANTS

RESEARCH AND INNOVATION: EDUCATION, TECHNOLOGY AND PERFORMANCE MANAGEMENT

2021 | CHAPTER IN BOOK | MAIN AUTHOR

27. SURFACTANT FUNCTIONALIZATION OF CLINOPTILOLITE AND THEIR RECENT APPLICATION IN ADSORPTION

INTERNATIONAL CONFERENCE ON RESEARCH AND PRACTICES IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES 2020

2020 | PROCEEDING | NON-INDEX | MAIN AUTHOR

28. HOLLOW FIBER CARBON MEMBRANE SYNTHESIZED FROM PPO POLYMER FOR O2/N2 BINARY SEPARATION

INTERNATIONAL CONFERENCE ON RESEARCH AND PRACTICES IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES 2020

2020 | PROCEEDING | NON-INDEX | MAIN AUTHOR

29. MAXIMUM WATER RECOVERY FOR AN URBAN SYSTEM USING WATER CASCADE ANALYSIS: A CASE STUDY ON THE AL-ABRAR OF GENIUS INSAN COLLEGE

1ST INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE 2020

2020 | PROCEEDING | NON-INDEX | CO-AUTHOR

30. ADSORPTION OF ANIONIC REMAZOL BRILLIANT BLUE R DYE USING DURIAN PEEL BASED ACTIVATED CARBON VIA NA2CO3/CO2 ACTIVATION

THE ISSUES IN TECHNOLOGIES: APPLICATION AND DEVELOPMENT

2020 | CHAPTER IN BOOK | CO-AUTHOR

31. ENHANCING CO2/CH4 SEPARATION USING PPO-DERIVED HOLLOW FIBER CARBON MEMBRANE

INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN ENGINEERING INNOVATION

2019 | JOURNAL | OTHER DATABASE | MAIN AUTHOR / CONTACT PERSON IN USIM

PUBLICATION

32. ROBESON?S UPPERBOUND-ORIENTED ENHANCEMENT OF PERFORMANCE OF HOLLOW FIBER CARBON MEMBRANE FOR H2/N2 IDEAL SEPARATION

MELAKA INTERNATIONAL CONFERENCE ON SOCIAL SCIENCES, SCIENCE AND TECHNOLOGY 2019 (MIC3ST 2019)

2019 PROCEEDING NON-INDEX MAIN AUTHOR

33. ENHANCING CO2/CH4 SEPARATION USING PPO-DERIVED HOLLOW FIBER CARBON MEMBRANE

KUALA LUMPUR INTERNATIONAL CONFERENCE ON MULTI-DISCIPLINARY RESEARCH (KLIC2019)

2019 PROCEEDING NON-INDEX MAIN AUTHOR

34. PHYSICAL TREATMENT TECHNOLOGY FOR LANDFILL LEACHATE

CONTROL AND TREATMENT OF LANDFILL LEACHATE FOR SANITARY WASTE DISPOSAL

2016 CHAPTER IN BOOK MAIN AUTHOR

35. COST-EFFECTIVE RETROFIT OF A PALM OIL REFINERY USING PINCH ANALYSIS

JURNAL TEKNOLOGI

2009 JOURNAL ISI, SCOPUS AND ERA CO-AUTHOR

AWARDS/RECOGNITION

1. INVESTIGATING THE POTENTIAL OF ACTIVATED CARBON FROM PISTACHIO SHELL TO TREAT DYE MATERIALS IN WASHING MACHINE WASTE WATER: REMOVAL OF METHYL ORANGE DYE

INSAN Junior Researchers International Conference (iJURECON 2025)

2025 ANTARABANGSA SILVER

2. DEVELOPMENT OF PELLETIZED SURFACTANT-MODIFIED CLINOPTILOLITE FOR CONGO RED ADSORPTION

CREATIONS de UiTM: INTERNATIONAL MEGA INNOVATION CARNIVAL (CDU 2024)

2024 ANTARABANGSA SILVER

3. BEST PAPER AWARD

2020 INTERNATIONAL

4. STAF CONTOH (KATEGORI AKADEMIK)

2020 UNIVERSITY

5. ANUGERAH BEST WRITE-UP CATEGORY SECONDARY SCHOOL, SEBAGAI GURU PEMBIMBING

2020 NATIONAL

6. GOLD AWARD FOR KGI BY BEING COACH FOR STEM-DESIGN ASITA INVITATION TOURNAMENT 2019

2019 INTERNATIONAL