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EDUCATION

**PhD. Chemical Engineering
 (Separation & Purification)**
 Universiti Kebangsaan Malaysia
 2003

MSc. Polymer Science & Technology
 UMIST, UK
 1994

B.Eng (Chemical Engineering)
 Universiti Teknologi Malaysia
 1991

MEMBERSHIP OF PROFESSIONAL BODIES

- MBOT
- International Water Association

LEADERSHIP

Registrar UMT
 Jan 2017-Dec 2019

Senate Members
 2010-2024

Internal Auditor UMT
 2020- present

MQA Academic Assessor
 Malaysia Qualification Agency
 2016- present

MBOT Academic Assessor
 Malaysia Board of Technology
 2021- present

**Certified Competency Based Instrument
 Behavioral Event Self-Assessment**
 2021- present

EXPERTISE

- Membrane Separation Technology
- Water & Wastewater Treatment
- Waste Recovery
- Environmental Management
- Competency Based Talent Management & Leadership

Publications (as of August 2024)

	Web of Science	Scopus	Google Scholar
Total Publications	46	105	123
Total Citations	1141	1884	2497
h-index	17	22	21

Books: 9 chapter in books
 Proceedings: more than 100 articles in proceedings

Research, Consultation & Innovation

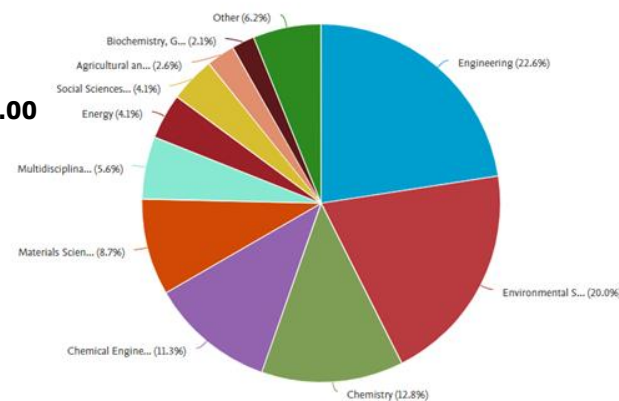
34 Research Grants

PI: RM 1,947,140,000

Co Researcher: 1,539,920.00

3 Copyrights Filed

Documents by subject area



Teaching & Supervision

UNDERGRADUATE COURSES

- Research Methodology
- Wastewater Treatment Technology
- Water Treatment Technology
- Membrane Technology
- Life Cycle Assessment
- Polymer & Environment
- Thermodynamics
- Mass & Energy Balance
- Principles of Chemical Engineering

POST GRADUATE SUPERVISION

- PhD: 11 (6 main, 5 Co- 8 graduated)
- Master: 17 (14 main, 3 Co), 16 graduated
- More than 150 FYP supervision

Academic Recognition

- PhD/Master external examiners
- Article reviewers
- Research Grant Reviewer
- Panel of Judges for Innovation events
- Internal Auditor for AQ and ISMS
- University Task Force members
- Invited/ Guest Speaker
- Competency Based Talent Management Module Developer
- Talent Management Professional Certificate Instructor (UMP/AKEPT)
- Certified CBI Assessor (national level)

Field/Sub Field

Chemical Separation & Recovery Using Green Approach	<input type="checkbox"/> Process Modelling and Application of Membrane Tech <input type="checkbox"/> Adsorption Research <input type="checkbox"/> Tertiary treatment of water and wastewater <input type="checkbox"/> Bio-separation and recovery using green technology. <input type="checkbox"/> Organic materials for Renewable Energy Application <input type="checkbox"/> Valuable Added Products (VAPs)
Environmental Management	<input type="checkbox"/> MFA an LCA for Biomass waste management <input type="checkbox"/> Life Cycle Assessment of chemical processes
Competency Based Talent Management & Leadership Management	<input type="checkbox"/> Academic Leadership <input type="checkbox"/> Competency Based Learning & Development <input type="checkbox"/> Competency Based Talent Management