



DR. NURUL SHAFIKAH BT MOHD MUSTAFA

Senior Lecturer

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Faculty of Ocean Engineering Technology,
Universiti Malaysia Terengganu

EDUCATION

PhD. Physics (Advanced Material)

Universiti Malaysia Terengganu
2016 - 2019

MSc. Physics (Material Science)

Universiti Malaysia Terengganu
2013 - 2015

B. App. Sc. (Physics, Electronics & Instrumentation)

Universiti Malaysia Terengganu
2009 - 2012

EMPLOYMENT

Lecturer, DS51

Feb 2020 - Present



Part Time Full Time Lecturer
2019 - 2020



Graduate Research Assistant

2015 - 2019



EXPERTISE

- Material Science
- Advance Material,
- Solid State Hydrogen Storage

Publications

	Web of Science	Scopus	Google Scholar
Total Publications	34	37	44
Total Citations	1398	1537	1638
h-index	20	21	22

Researcher ID: [I-6401-2016](#)

Scopus ID: [56091860200](#)

Google Scholar ID: [Nurul Shafikah Mohd Mustafa](#)

[0000-0003-4831-5805](#)

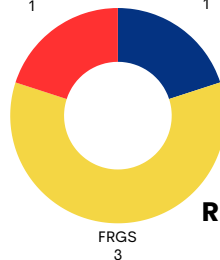
Selected Publications

- Enhancement of hydrogen storage properties of NaAlH₄ catalyzed by CuFe₂O₄, International Journal of Hydrogen Energy 48 (2023) 35197-35205
- An investigation on the addition of SrTiO₃ to the hydrogen storage properties of the 4MgH₂-Li₃AlH₆ composite International Journal of Energy Research 46 (2022) 8030-8041
- Enhanced the hydrogen storage properties and reaction mechanisms of 4MgH₂ + LiAlH₄ composite system by addition with TiO₂ International Journal of Energy Research 15 (2021) 21365-21374
- The effect of K₂SiF₆ on the MgH₂ hydrogen storage properties Journal of Magnesium and Alloys 8 (2020), 832-840

Research & Innovation

5 Research Grants
2 PI, 3 Co

INDUSTRY 1 UNIVERSITY 1



RM 425,311

7 Product Innovation
4 Gold, 3 Silver



- MPI 2022
- Karnival Inovasi UMT 2023
- FID 2023
- MPI 2024

- MPI 2023
- FID 2023
- CDU 2023



Teaching & Supervision

4 Undergraduate Courses

Engineering Math I

Engineering Math II

Intro. to Material Analysis

Renewable Energy

2 Postgraduate

- 1 PhD, on-going
- 1 Msc. on-going

13 Undergraduate

- 8 completed
- 5 on-going

Awards

- Best Poster Award MPI 2024
- Most Valuable Paper Award JMA 2023
- Best Poster Presentation 2022
- Pro Canselor Award 2019, Award of Best Research Project
- LPU Chairman Award 2015, Award of Best Thesis