



# Ts. DR. NURUL HAYATI IDRIS

## Associate Professor

### EDUCATION

University of Wollongong, Australia  
2008 – 2012  
Ph. D in Energy Storage Materials

University of Malaya  
2003-2005  
M. Sc. in Advanced Materials

University of Malaya  
1999 - 2003  
B. Sc. (Hons.) in Electronics and Computational Physics

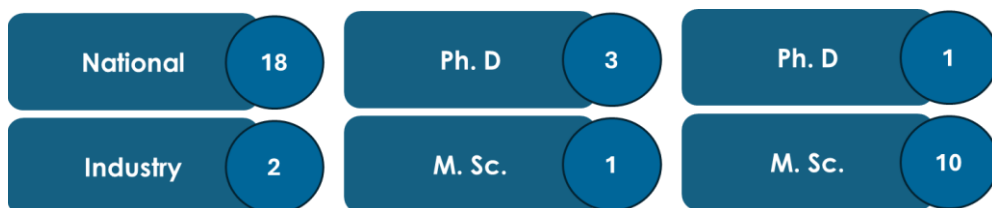
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FACULTY OF OCEAN ENGINEERING  
TECHNOLOGY  
UNIVERSITI MALAYSIA TERENGGANU

### RESEARCH GRANTS

### SUPERVISION (ON-GOING)

### SUPERVISION (GRADUATED)



### SELECTED PUBLICATIONS

Molten Salt Synthesis of Disordered Spinel  $\text{CoFe}_2\text{O}_4$  with Improved Electrochemical Performance for Sodium-Ion Batteries  
RSC Advances 13 (2023) 34200-34209

High-Rate Capability of  $\text{LiNi}_{0.9}\text{Mn}_{0.1-x}\text{Al}_x\text{O}_2$  (NMA) ( $x = 0.01, 0.03, 0.05$ ) as Cathode for Lithium-Ion Batteries  
Batteries 9 (2023) 420-432

In-situ Encapsulation of Nickel Nanoparticles in Polypyrrole Nanofibres with Enhanced Performance for Supercapacitor  
Electrochimica Acta 249 (2017) 9-15

Plastic Crystal-Solid Biopolymer Electrolytes for Rechargeable Lithium Batteries  
Journal of Membrane Science 468 (2014) 149-154

Microporous Gel Polymer Electrolytes for Lithium Rechargeable Battery Application  
Journal of Power Sources 201 (2012) 294-300

### ASSESSOR

Fundamental Research Grant Scheme (FRGS) Ministry of Higher Education Malaysia (2019-ongoing)

Research & development Fund (Dana R&D) Ministry of Science, Technology & Innovation (MOSTI) (2021-ongoing)

Assessor Panel for Majlis Akreditasi Teknologi dan Teknikal (TTAC) Lembaga Teknologi Malaysia (MBOT)2020-2023

Internal Auditor Universiti Malaysia Terengganu (2019-ongoing)

### Expertise

Li-ion and Na-ion Batteries  
Supercapacitor  
Cathode  
Anode  
Solid Polymer Electrolyte

### Research Profile

*h*-index 25  
Citations 2013  
No. of Publications 59  
(Scopus, as of July 2024)

### Scopus ID

<https://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorid=36659181400&zone=>

### Web of Science ID

<https://www.webofscience.com/wos/author/record/1333552>

### ORCID

<http://orcid.org/0000-0001-6270-137X>

### Google Scholar

[https://scholar.google.com/my/citations?hl=en&user=col4zUAAA&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/my/citations?hl=en&user=col4zUAAA&view_op=list_works&sortby=pubdate)