



# NUR FARIZAN MUNAJAT

Ts. Dr.

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WoS ID: V-9502-2018

Scopus ID: 55962361500

## EDUCATION



PhD (ENERGY TECHNOLOGY)  
Kungliga Tekniska Högskolan (KTH)  
2013



MSc (PHYSICS)  
Universiti Teknologi Malaysia (UTM)  
2006



BSc (INDUSTRIAL PHYSICS)  
Universiti Teknologi Malaysia (UTM)  
2003

## CAREER PATH & EXPERIENCES



Senior Lecturer  
Universiti Malaysia Terengganu (UMT)  
2013 – Present



Lecturer  
Universiti Malaysia Terengganu (UMT)  
2006 – 2013



QA Engineer  
Nemic Lambda (M) Sdn. Bhd.  
2005 – 2006

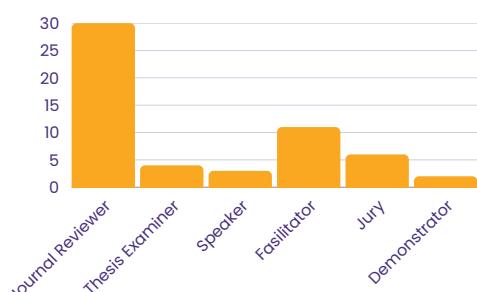
## AWARDS

### Selected awards: (Total = 15)



- Anugerah Khas Penyelidikan Tahun 2021, MPI2023
- Best Poster Award, MPI2024
- Gold, MPI2024 – Ecovolt: Revolutionizing Battery Tech With Solar Pyrolyzed EFB Biochar
- Gold, MPI2019 – Products From Pyrolysis and Torrefaction of Seafood Waste

## ACADEMIC RECOGNITIONS



## NETWORKING



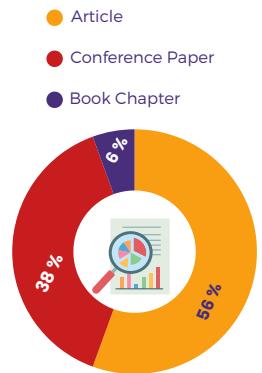
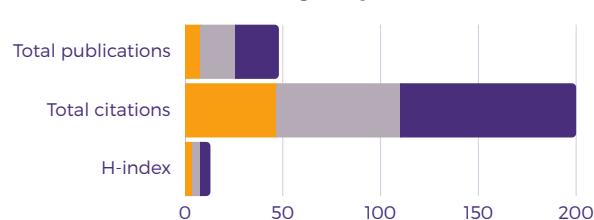
## EXPERTISE & RESEARCH INTEREST



## PUBLICATIONS

Web of Science   Scopus

Google Scholar



### Selected publications:

- Hamed, A. S. A., Yahya, M. S., Latiff, N. A. A., Yusof, N. I. F. M., & **Munajat, N. F.** (2024). Thermochemical conversion of oil palm biomass and its applications: A bibliometric exploration of global trends over two decades. *Journal of Analytical and Applied Pyrolysis*, 181, 106568.
- Hamed, A., Yusof, N., Yahya, M., Cardozo, E., & **Munajat, N.** (2023). Concentrated solar pyrolysis for oil palm biomass: An exploratory review within the Malaysian context. *Renewable and Sustainable Energy Reviews*.
- Roslee, A. N., & **Munajat, N. F.** (2018). Comparative study on pyrolysis behavior and kinetics of two macroalgae biomass (*Ulva cf.flexuosa* and *hy.edulis*) using thermogravimetric analysis. *Jurnal Teknologi*, 80(2), 123–130.
- **Munajat, N. F.**, Erlich, C., Fakhrai, R., & Fransson, T. H. (2012). Influence of water vapour and tar compound on laminar flame speed of gasified biomass gas. *Applied Energy*, 98, 114–121.

## RESEARCH GRANTS



CASA ARMADA

### Selected research grants: (Total = 4 PI, 6 Co)

- FRGS (On-going), RM 145,500: PI Dynamical Thermal Analysis of Solar-Driven Pyrolysis for Energy Recovery from Empty Fruit Bunch: Experimental and CFD approach
- Casa Armada Sdn. Bhd. (On-going), RM 350,000: PI Investigation on Wastes Pyrolysis in A Fixed Bed Reactor to Produce Biofuels: Optimization of Operating Conditions and Products Characterizations
- FRGS (Completed), RM 128,000: PI Characterization of Algae Biomass from Kuala Terengganu Coastal Areas as a Fuel by Thermogravimetric Analysis and Its Kinetic Parameter Estimations
- UMT (Completed), RM 20,000: PI Investigation on thermal management for LoRa wireless system in the outdoor environment: Impact of temperature and humidity

## TEACHING & SUPERVISION

### Undergraduate course:



### Supervision:

