# A Bibliometric Analysis of Publications of Universiti Teknologi Malaysia

## Abdul Hakim Md Yusop, Teong Han Chew, Fadzlin Md Sairan, Hadi Nur

- An improved particle swarm optimization (PSO)-based MPPT for PV with reduced steady-state oscillation, (2012), IEEE Transactions on Power Electronics.
- 2 Application of response surface methodology in describing the performance of coated carbide tools when turning AISI 1045 steel, (2004), Journal of Materials Processing Technology.

## Engineering

- 3 The food waste hierarchy as a framework for the management of food surplus and food waste, (2014), Journal of Cleaner Production.
- 4 A deterministic particle swarm optimization maximum power point tracker for photovoltaic system under partial shading condition, (2013), IEEE Transactions on Industrial Electronics.
- 5 Enhanced hydrophilicity and salt rejection study of graphene oxide-polysulfone mixed matrix membrane, (2013), Desalination.

- 1 Application of response surface methodology in describing the performance of coated carbide tools when turning AISI 1045 steel, (2004), Journal of Materials Processing Technology.
- ② Simple, fast and accurate two-diode model for photovoltaic modules, (2011), Solar Energy Materials and Solar Cells.
- ③ Enhanced hydrophilicity and salt rejection study of graphene oxide-polysulfone mixed matrix membrane, (2013), Desalination.
- 4 A comprehensive Matlab simulink PV system simulator with partial shading capability based on two-diode model, (2011), Solar Energy.
- Synthesis, characterization and performance of asymmetric polyethersulfone (PES) ultrafiltration membranes with polyethylene glycol of different molecular weights as additives, (2007), Desalination

# Computer

Chemical

engineering

Materials

sciences

- 1 Application of response surface methodology in describing the performance of coated carbide tools when turning AISI 1045 steel, (2004), Journal of Materials Processing Technology.
- ② A new hybrid Psogsa algorithm for function optimization, (2010), Proceedings of ICCIA 2010 - International Conference on Computer and Information Application.
- 3 Prediction of surface roughness in the end milling machining using artificial neural network, (2010), Expert Systems with Applications.
- 4 Tuning of a neuro-fuzzy controller by genetic algorithm, (1999), IEEE Transactions on Systems, Man, and Cybernetics, Part b: Cybernetics.
- S A class of proportional-integral sliding mode control with application to active suspension system, (2004), Systems and Control Letters.

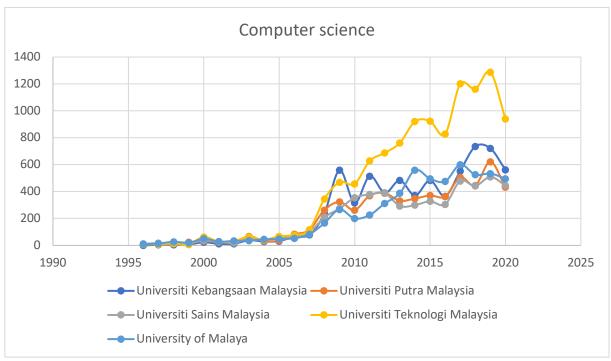
## Synthesis, characterization and performance of asymmetric polyethersulfone (PES) ultrafiltration membranes with polyethylene glycol of different molecular weights as additives, (2007), Desalination.

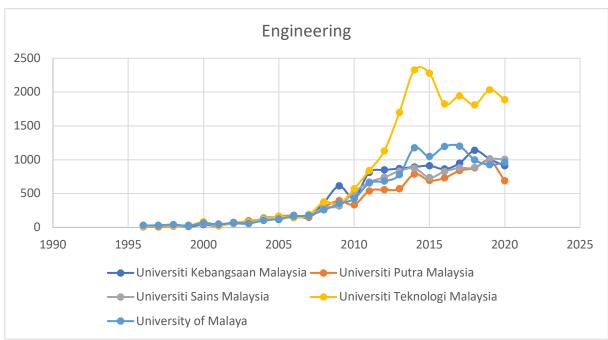
- 2 Thermodynamic analysis of carbon dioxide reforming of methane in view of solid carbon formation, (2011), Fuel Processing Technology.
- 3 Targeting the minimum water flow rate using water cascade analysis technique (2004), AICHE Journal
- A novel thin film composite forward osmosis membrane prepared from PSf— TiO<sub>2</sub> nanocomposite substrate for water desalination, (2014), Chemical Engineering Journal.
- Synthesis, characterization and performance of asymmetric polyethersulfone (PES) ultrafiltration membranes with polyethylene glycol of different molecular weights as additives, (2007), Desalination.
- Enhanced hydrophilicity and salt rejection study of graphene oxide-polysulfone mixed matrix membrane, (2013), Desalination.
- 2 A novel thin film composite forward osmosis membrane prepared from PSf-TiO<sub>2</sub> nanocomposite substrate for water desalination, (2014), Journal of Chemical Engineering.

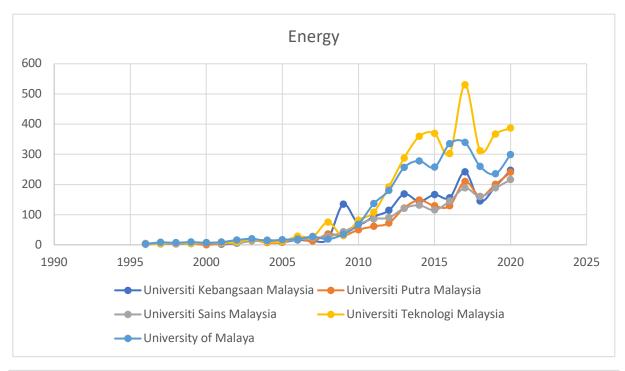
### Chemistry

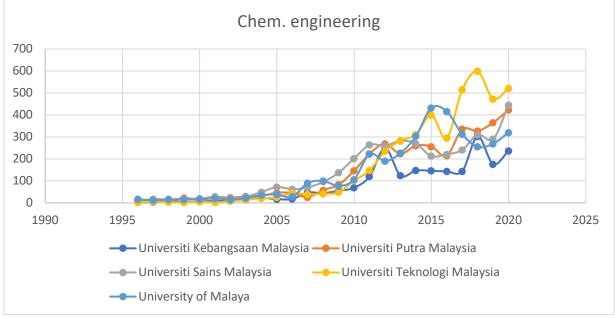
- 3 Synthesis, characterization and performance of asymmetric polyethersulfone (PES) ultrafiltration membranes with polyethylene glycol of different molecular weights as additives, (2007), Desalination.
- Preparing activated carbon from various nutshells by chemical activation with K2CO3, (2002), Carbon.
- Solution and characterization of microcrystalline cellulose from oil palm biomass residue, (2013), Carbohydrate Polymers.

Figure S1. The most influential papers from top 5 fields in UTM

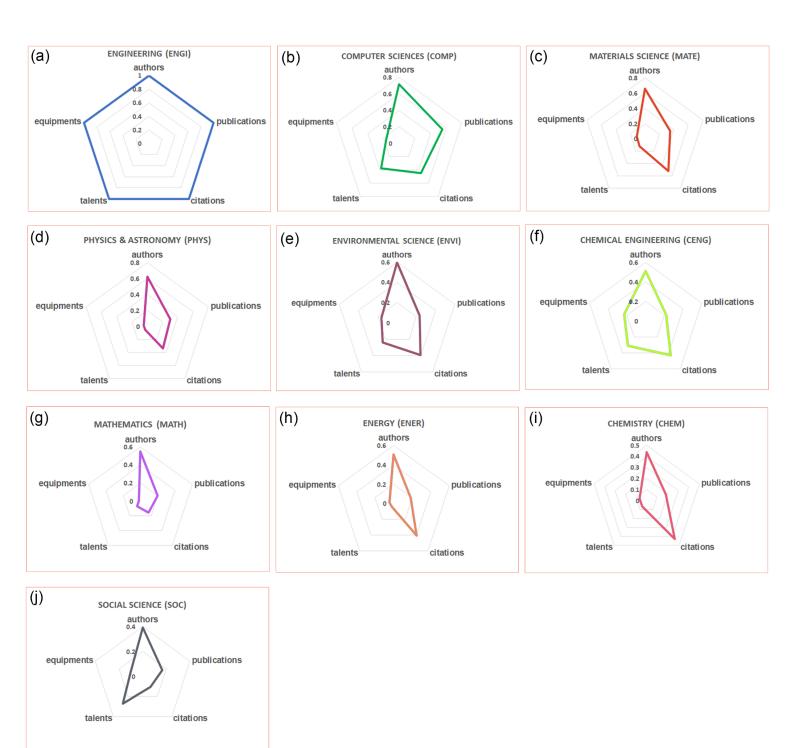








**Figure S2.** Four fields in which UTM propelled higher in number of publications as compared to other RU from year 2013 to 2020.



**Figure S3.** Spider chart showing the number of publications, number of citations, number of authors, total equipment allocation and total budget for research talents for the top 10 fields in UTM.