

SURIANI BINTI IBRAHIM



PhD (twinning) = bio-catalyst, metal oxides catalyst, biosensor (CGPA 3.80)  
Master = solid polymer electrolytes for lithium battery (by research)  
Degree = Materials Engineering Programme (Pass with Honours)

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**PERSONAL DETAILS**

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**EDUCATION BACKGROUND**

**Doctoral Degree (Twinning programme - Tokyo Institute of Technology and Chulalongkorn University) - (2011 - 2015)**

Field of Research: Biosensor / Chemical Sensor

Research Title: Binary NiO-MnO Catalyst For Amperometric Biosensors

Scholarship: AUN/SEED-Net funded by Japan International Cooperation Agency

CGPA : 3.80

**Master Degree (2009 - 2011)**

Field of Research: Nanocomposite

Research Title: Synthesis and Characterization of Novel Solid Polymer Electrolytes with Carbon Nanotubes as a filler.

Scholarship: Tutorship from Ministry of Higher Education

## **Bachelor of Materials Engineering (2002 - 2006)**

Pass with Honours

Scholarship: Malaysia Government Scholarship

## **WORKING EXPERIENCES**

1) Quality Control/Quality Assurance Engineer at Metek Kitamura (M) SDN BHD - (2008 - 2009)

Responsibilities:

- a) To make sure all finish products is in good quality.
- b) As a window between customers and company if any quality issues raised.
- c) Coordinate internal (SIRIM) and external audit.
- d) Establish Quality Improvement Programme to reduce rejection product.

2) Tutor at Department of Mechanical Engineering, University of Malaya - (2009 - 2011)

Responsibilities:

- a) Assisting lecturers in tutorial class. (Asas Sains Bahan, Ceramics, Design against failure, Polymers, Non-Ferrous alloys – First Degree)
- b) Assisting lecturers in management works such as OBE files, Buku Panduan and OBE meeting.

## **PUBLICATIONS**

### **Book:**

**S Ibrahim**, M R Johan, 2013. Conductivity Studies And Neural Networks Model: A Nanocomposite Polymer Electrolytes (PEO-LiPF<sub>6</sub>-EC-CNT): Lambert Academic Publishing

### **Accepted Journals:**

1) Suriani Ibrahim, Tawatchai Charinpanitkul, EiryKobatake, Mana Sriyudthsak. Nanowires Nickel Oxide and Nanospherical Manganese Oxide Synthesized via Low Temperature Hydrothermal Technique for Hydrogen Peroxide Sensor. Article ID 9138961

2) Z.Huda, T.Zaharinie, IHSC Metselaar, **S. Ibrahim**. Goh J Min, 2014. Kinetics of Grain Growth in 718 Ni-Base Superalloy. Archives of Metallurgy and Materials Research Innovations 18 (S6): S6-68 - S6-72. (ISI-Cited Publication)

- 3) Z.Huda, T.Zaharinie, IHSC Metselaar, **S. Ibrahim**. Goh J Min, 2014. Kinetics of Grain Growth in 718 Ni-Base Superalloy. Archives of Metallurgy and Materials Research Innovations 18 (S6): S6-68 - S6-72. (ISI-Cited Publication)
- 4) S M M Yassin, **S Ibrahim**, M R Johan, 2014.Effect of zirconium oxide nanofiller and dibutylphthalate plasticizer on ionic conductivity and optical properties of solid polymer electrolytes.Scientific World Journal. Article ID 547076 (ISI-Cited Publication)
- 5) **S Ibrahim**, S M MYaasin, M R Johan.2013, Influence of carbon nanotubes on the optical properties of plasticized solid polymer electrolytes, Applied Surface Science 276: 323-327. (ISI-Cited Publication)
- 6) **S Ibrahim**, M R Johan, Optimization of neural network for ionic conductivity of nanocomposite solid polymer electrolyte system (PEO - LiPF<sub>6</sub> - EC - CNT), Commun. Nonlinear SciNumerSimulat 17 (2012) 329 - 340 (ISI-Cited Publication)
- 7) **S Ibrahim**, R Ahmad, M R Johan, Conductivity and optical studies of plasticized solid polymer electrolytes doped with carbon nanotubes, Journal of Luminescence 132 (2012) 147 - 152 (ISI-Cited Publication)
- 8) Mohd Rafie Johan, Siti Mariah Mohd Yassin, **Suriani Ibrahim**. Bayesian Neural Networks Model for ionic conductivity of nanocomposite solid polymer electrolyte system (PEO - LiCF<sub>3</sub>SO<sub>3</sub> - DBP - ZrO<sub>2</sub>). International Journal of Electrochemical Science (2012) 7 222- 233 (ISI-Cited Publication)
- 9) **Suriani Ibrahim**, Siti Mariah MohdYassin, Ng Meng Nee, Roslina Ahmad, MohdRafie Johan, Conductivity and dielectric behaviour of PEO based solid nanocomposite polymer electrolytes, (2012) Solid State Communications (ISI-Cited Publication)
- 10) **S Ibrahim**, M R Johan, Thermolysis and conductivity studies of Poly(Ethylene Oxide)PEO based polymer electrolytes doped with carbon nanotube, Int J ElectrochemSci, 7(2012)2596-2615 (ISI-Cited Publication)
- 11) **S Ibrahim**, S M MYasin, R Ahmad, M R Johan, Conductivity, thermal and morphology studies of PEO based salted polymer electrolytes, Solid State Sciences 14(2012)1111-1116 (ISI-Cited Publication)
- 12) **S Ibrahim**, S M MYassin, R Ahmad, M R Johan, Effect of various EC plasticizer concentrations on salted PEO based solid polymer electrolytes, Int J Plast Tech, 16 (2) 2012 125-135 (ISI/SCOPUS Cited Publication)
- 13) M R Johan, H S Oon, **S Ibrahim**, S M MYassin, Y H Tay, Effects of Al<sub>2</sub>O<sub>3</sub> nanofiller and EC plasticizer on the ionic conductivity enhancement of solid PEO - LiCF<sub>3</sub>SO<sub>3</sub> solid polymer electrolyte, Solid State Ionics 196 (2011) 41 - 47 (ISI-Cited Publication)

14) **S Ibrahim**, S M MYassin, M N Ng, R Ahmad, M R Johan, Impedance spectroscopy of carbon nanotube/solid polymer electrolyte composites, Solid State Communications (2011) (ISI-Cited Publication)

15) **S Ibrahim**, M R Johan, Conductivity, thermal and neural network model nanocomposite solid polymer electrolyte system (PEO - LiPF<sub>6</sub> - EC - CNT), Int. J. Electrochem. Sci. 6 (2011)5565-5587 (ISI-Cited Publication)

16) **S. Ibrahim**, R. Ahmad, M. R. Johan, Effects of various LiPF<sub>6</sub> salt concentrations on PEO- based solid Polymer Electrolytes, Ionics 17 (2011)399 - 405 (ISI-Cited Publication)

17) M. R. Johan, **S. Ibrahim**, Neural networks for Nyquist plots prediction in a nanocomposite polymer electrolyte (PEO-LiPF<sub>6</sub>-EC-CNT), Ionics DOI 10.1007/s 11581-011-0549-z (ISI-Cited Publication)

Title	1-17	Cited by	Year
Effects of Al <sub>2</sub> O <sub>3</sub> nanofiller and EC plasticizer on the ionic conductivity enhancement of solid PEO-LiCF <sub>3</sub> SO <sub>3</sub> solid polymer electrolyte		73	2011
MR Johan, OH Shy, S Ibrahim, SMM Yassin, TY Hui Solid State Ionics 196 (1), 41-47			
Thermolysis and conductivity studies of poly (ethylene oxide)(PEO) based polymer electrolytes doped with carbon nanotube			

Citation indices	All	Since 2012
Citations	304	295
h-index	9	8
i10-index	8	8

Year	Citations
2011	73
2012	~10
2013	~20
2014	~15
2015	~30
2016	~40
2017	~35

### Proceeding:

- 1) Oral and Poster presentation at International Conference On Nanotechnology (ICONT 2009), Langkawi, MALAYSIA
- 2) Oral presentation at 5th AUN/SEED-Net Regional Conference in Electrical and Electronic Engineering, Feb 4-5, 2013, Bangkok, THAILAND
- 3) Oral presentation at 8th AOTULE Postgraduate Student Conference, Oct 17-19, 2013, Bangkok, THAILAND
- 4) Oral presentation at 6th AUN/SEED-Net Regional Conference in Electrical and Electronic Engineering, March 4-5, 2014, Bangkok, THAILAND

### PROFESSIONAL SERVICE

- Reviewer for Royal Society of Chemistry “A simple methodology to predict the tunnelling conductivity of polymer/CNT nanocomposites by the roles of tunnelling distance, interphase and CNT waviness

- External Examiner for PhD Dissertation “ Synthesis, Characterization, Electrical Conductivity and Super Capacitor Property of Polyaniline Nano Composites” from Mangalore University, INDIA.

#### **UNIVERSITY SERVICE**

- Judge for Centre of Advanced Materials Postgraduate Symposium 2017
- Judge for Beyond Engineering Innovation (BEGIN) Challenge 2017

#### **PROFESSIONAL MEMBERSHIPS**

- Board of Engineers Malaysia (69745A)