

CURRICULUM VITAE



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Education

1. Ph.D. Materials Science, 2014, UPM
2. M.S. Manufacturing System Engineering, 2010, UPM
3. B.Eng. Materials Science, 1999, Toyohashi University of Technology, Japan
4. Advance Dip. Industrial Chemistry, 1997, Suzuka National College of Technology, Japan

Working experiences

1. Toyota Auto-Body Malaysia, 2014, Executive Admin
2. Yayasan Ilmuwan, 2008-2011, Education consultant
3. Shin-Etsu Handotai Shah Alam Sdn. Bhd., 2003-2008, Quality Control Engineer
4. ISC Micro Precision (Japan & Malaysia) Sdn. Bhd., 1999-2003, Research & Development Engineer

Areas of Interest

1. Photoelectrochemical Cell, Fuel Cell, Solid-state solar cell, green technology and renewable energy

Publications

Journals (30 recent journals)

1. **Sabli, N.**, Talib, Z. A., Hilal, H. S. (2015). Effect of annealing on properties of films deposited from synthesized CuSnSe source by thermal vacuum under argon gas condensation. *International Journal of Hydrogen Energy*, Submitted (under review)
2. Zyoud, A., Al-Kerm, R. S., Mansur, W., Helal, M. H. S., Park, D. H., Campet, G., **Sabli, N.**, Hilal, H. S. (2015). High PEC conversion efficiencies from CuSe film electrodes modified with metalloporphyrin/polyethylene matrices. *Electrochimica Acta*, 174, 472-479
3. Yee, C. P., Talib, Z. A., Yunus, W. M., Chyi, J. L. Y., **Sabli, N.**, Bin, C. C. (2015). Annealing Effect on Photoacoustic Characterization of NiSe Metal Chalcogenide Semiconductor Using Phase Signal Analysis. *Advanced Materials Research*, 1107, 526-529
4. **Sabli, N.**, Talib, Z. A., Yunus, W. M. M., Zainal, Z., Hilal, H. S., and Fujii, M. (2014). SnSe thin film electrodes prepared by vacuum evaporation: Enhancement of photoelectrochemical efficiency by argon gas condensation method. *Electrochemistry*, 82(1), 1-6.
5. **Sabli, N.**, Talib, Z. A., Bin, C. C., Yunus, W. M. M., Zainal, Z., Hilal, H. S., Chyi, J. L. Y., and Fujii, M. (2014). Deposition and characterization of SnSe and CuInSe₂ thin films by thermal evaporation technique from synthesized SnSe and CuInSe₂ sources. *Sains Malaysiana*, 43 (7)
6. Bin, C. C., Talib, Z. A., **Sabli, N.** (2014). Effect of High Intensity Light Irradiance on CuInSe₂ Thin Films. *Advanced Materials Research*, 895, 51-56.
7. **Sabli, N.**, Talib, Z. A., Yunus, W. M. M., Zainal, Z., Hilal, Fujii, M. (2014). Film electrodes deposited from Cu₂SnSe₃ source in comparison with those deposited from SnSe and Cu₂ZnSnSe₄ sources by thermal vacuum evaporation: Effect of argon gas flow rate. *Electrochimica Acta*, 139, 238-243.
8. **Sabli, N.**, Talib, Z. A., Yunus, W. M. M., Zainal, Z., Hilal, H. S., Fujii, M. (2014, March). Effect of argon gas flow rate on properties of film electrodes prepared by thermal vacuum evaporation from synthesized Cu₂SnSe₃ source. In *FRONTIERS IN PHYSICS: 4th International Meeting* (Vol. 1588, pp. 261-264). AIP Publishing.
9. **Sabli, N.**, Talib, Z. A., Yunus, W. M. M., Zainal, Z., Hilal, H. S., Husin, M. S. (2014). Effect of annealing on the properties of SnSe film prepared by thermal vacuum evaporation in the presence of argon gas. *Advanced Materials Research*, 1024, 323-326
10. **Sabli, N.**, Talib, Z. A., Yunus, M., Mahmood, W., Zainal, Z., Hilal, H. S., and Fujii, M. (2013). CuZnSnSe Thin Film Electrodes Prepared by Vacuum Evaporation: Enhancement of Surface

Morphology and Photoelectrochemical Characteristics by Argon Gas. In *Materials Science Forum* (Vol. 756, pp. 273-280).

11. **Sabli, N.**, Talib, Z. A., Yunus, W. M. M., Zainal, Z., Hilal, H. S., and Fujii, M. (2013). Effect of Argon Gas on Photoelectrochemical Characteristics of Film Electrodes Prepared by Thermal Vacuum Evaporation from Synthesized Copper Zinc Tin Selenide. *International Journal of Electrochemical Science*, 8, 10910-10920.
12. **Sabli, N.**, Talib, Z. A., Yunus, W. M. M., Zainal, Z., Hilal, H. S., and Fujii, M. (2013). New Technique for Efficiency Enhancement of Film Electrodes Deposited by Argon Gas Condensation from Metal Chalcogenide Sources. *International Journal of Electrochemical Science*, 8, 12038-12050.
13. Jinno, K., Sawada, H., Catabay, A. P., Watanabe, H., **Sabli, N.**, Pesek, J. J., Matyska, M. T. (2000). Comparison of separation behavior on benzodiazepines in packed capillary electrochromatography and open-tubular capillary electrochromatography. *Journal of Chromatography A*. 887: 479-487.

Conference Proceedings (30 recent Conference Proceedings)

1. Sabli, N. *Phototoelectrochemical properties of metal selenide thin films deposited by thermal vacuum evaporation in the presence of argon gas*. Abstract book in International conference on Fuel Cell & Hydrogen Technology 2015, Pullman Kuala Lumpur City Center. September 2015.
2. Sabli, N. *Comparative study on Photoelectrochemical Properties on SnSe thin films with and without inert-gas condensation*. Paper presented at the Fundamental Science Congress, UPM. July 2012
3. Sabli, N. *Effect of argon gas on surface morphology and photoelectrochemical characteristic of CuZnSnSe thin film*. Paper presented at 3rd ISESCO International Workshop and Conference on Nanotechnology, UKM. December 2010.
4. Sabli, N. *Effect of argon gas on SnSe thin film preparation in thermal vacuum evaporation technique: Enhancement of photoelectrochemical characteristics*. Paper presented at 4th International Conference on Solid State Science & Technology, Malacca. December 2012.
5. Sabli, N. *Film electrode deposited by argon gas condensation method from synthesized CuSnSe source*. Paper presented at Fundamental Science Congress 2013, UPM. August 2013.
6. Sabli, N. *Effect of argon gas flow rate on properties of film electrodes prepared by thermal vacuum evaporation from synthesized CuSnSe source*. Paper presented at 4th International Meeting on Frontiers of Physics, Genting Highland. August 2013.
7. Sabli, N. *Novel technique for efficiency enhancement of metal chalcogenide based-film electrodes deposited by thermal vacuum evaporation in the presence of argon*. Paper presented at 3rd International conference on the advancement of materials and nanotechnology 2013, Penang. November 2013.

Books (If any)

Chapter in Books (If any)

Megat Norulazni Mohamed Noor, Zahari Mohamad, Aludin Mohd Serah, Suazlan Mt Aznam, **Nordin Sabli** and Khamsiah Hamidah Mobil, *The Role of Universities in Promoting Dialogue Philosophy, 2011: Karada De Oboeru (A Phylosopical Approach in Instilling Multi-skills and Ethical Work Habits for Engineering Students in Japan*. ISBN 978-983-3070-35-0. [Publisher: Centre for Civilisational Dialogue, UM.]

Research Grant				
No.	Project Title	Amount (RM)	Year	Source of Fund
1.	Prototype Development of Graphene-Based Superhydrophobic Nanocoating for Consumer Application	126,000	2015-2017	GP-IPB Putra Grant
2.	Mechanistic Framework of Photocatalytic Co ₂ Reduction Using Graphene Quantum	70,000	2015-2017	FRGS
3.	Photoelectrochemical Properties of Metal Selenide Double-Layered Thin	56,900	2015-2017	GP-IPM

Films Deposited by Thermal Vacuum Evaporation in The Presence of Argon Gas

4.	Application of sub-critical water Technology in Medical/ health care Waste management in Tropical country (Malaysia)	30,000	2015-2017	Private fund Systrail (Malaysia) Sdn. Bhd.
5.	Application of edge-iodinated graphene nanoplatelets and composited polybenzimidazole for development of low-cost and without humidification fuel cell systems.		Status: under review by MOSTI	MOSTI Science Fund

Patents

1. 'A furnace for producing chalcogenide based alloy and a method for producing thereof' by Talib, Z. A., **Sabli, N.**, Yunus, W. M. M., Shaari, A. H. (Patent Pending no.: PI2012700841).
2. Thailand **National Phase** Entry Based on PCT Application, 'A furnace for producing chalcogenide-based alloy and a method for producing thereof' (PCT Application No. PCT/MY2013/000189, Application No. 1501002361). **Filing Date: 28 April 2015**

Awards/Recognition (Current)

Num	Name of awards	Title	Award Authority	Award Type	Year
1.	Gold Medal	A furnace and a method for producing chalcogenide-based compound	Malaysia Innovation Expo 2013, UPM	National	2013
2.	Gold Medal	A novel technique for conductivity type control and efficiency enhancement of thin film from synthesized chalcogenide-based alloy	Malaysia Innovation Expo, 2013, UPM	National	2013

Supervision

Name	Research Theme	Level	Responsibility
1. Aldrin Mike	Performance of Polymer Electrolyte Membrane (PEM) Fuel Cell Using PEM Standard and PEM Prepared by Painting Method	UG	Main supervisor (completed)
2. Shamsainon	Application of subcritical water technology in Medical/ health care waste management in Tropical country (Malaysia)	Master (with Thesis)	Co-supervisor (in-progress)
3. Areej Majeed	Optimization of membrane electrode performance assembly by spray method for polymer electrode membrane fuel cell	UG	Main supervisor (in-progress)
4. Nur Asyreen	Performance of fuel cell with different technique of MEA preparation	Master (w/o Thesis)	Main supervisor (in-progress)
5. Nur Atiqah	Optimization of membrane electrode performance assembly by painting method for polymer electrode membrane fuel cell	UG	Main supervisor (in-progress)
6. Nurhusni	Sub-critical water treatment of sago bark to Produce valuable material	UG	Main supervisor (in-progress)