



CURRICULUM VITAE

DR. NORDIN HJ SABLI

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Academic Qualifications

- Ph.D. Materials Science, 2014, Universiti Putra Malaysia
- M.S. Manufacturing System Engineering, 2010, Universiti Putra Malaysia
- B.Eng. Materials Science, 1999, Toyohashi University of Technology, Japan
- Advance Dip. Industrial Chemistry, 1997, Suzuka National College of Technology, Japan

Area of Interest

- Photoelectrochemical cell, fuel cell, solid-state solar cell
- Green technology and renewable energy

Appointment

- Senior lecturer, Department of Chemical and Environmental Engineering, Universiti Putra Malaysia, Malaysia, 2015 – to date
- Toyota Auto-Body Malaysia, 2014, Executive Admin
- Yayasan Ilmuwan, 2008-2011, Education consultant
- Shin-Etsu Handotai Shah Alam Sdn. Bhd., 2003-2008, Quality Control Engineer
- ISC Micro Precision (Japan & Malaysia) Sdn. Bhd., 1999-2003, Research & Development Engineer

Scientific Experience and Specialisation

Organisation	Position	Start Date	End Date	Expertise
Yayasan Ilmuwan	Education Consultant	2008	2011	Developed new syllabus for Physics and Engineering Metallurgy subject

Publications

Journals

1. **Sabli, N.**, Shamsainon, Hiroyuki Yoshida, Nordin Sabli, Shamsul Izhar. (2023) Hydrolysis of Blended Cotton/Polyester Fabric from Hospital Waste using Subcritical Water, *Sains Malaysiana*, 52(1), 139-151
2. **Sabli, N.** and Zakaria, N. (2023). Ammonia-Nitrogen Reduction in Low Strength Domestic Wastewater by Polyvinyl Alcohol (PVA) Gel Beads. *Pertanika Journal of Science & Technology*, 31(1).

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3. Ooi, S. W., **Sabli, N.**, Siajam, S. I. (2022). Study On Ball Milling Duration Effect Of N-doped Graphene for PEMFC Application. *Journal of Applied Science and Engineering*, 26(4), 539-546.
 4. Kamaroddin, M. F. A., **Sabli, N.**, Abdullah, T. A. T., Abdullah, L. C., Izhar, S., Ripin, A., & Ahmad, A. (2019, June). Phosphoric Acid Doped Polybenzimidazole and Sulfonated Polyether Ether Ketone Composite Membrane for Hydrogen Production in High-Temperature Copper Chloride Electrolysis. In *IOP Conference Series: Earth and Environmental Science* (Vol. 268, No. 1, p. 012057). IOP Publishing.
 5. Kamaroddin, M. F. A., **Sabli, N. H.**, Abdullah, T. A. T., Abdullah, L. C., Siajam, S. I., Ripin, A., & Ahmad, A. (2019). Effect of Temperature and Current Density on Hydrogen Production for Polybenzimidazole Zirconium Phosphate Hybrid Membrane in Copper Chloride Electrolysis. *International Journal of Integrated Engineering*, 11(7), 182-189.
 6. Amin, N., **Sabli, N.**, Izhar, S., Yoshida, H. (2020). Production of Valuable Materials from Sago Bark Using Subcritical Water Treatment. *Int. J. Eng. Res. Technol*, 13(1), 1-11.
 7. Kamaroddin, M. F. A., **Sabli, N.**, Nia, P. M., Abdullah, T. A. T., Abdullah, L. C., Izhar, S., Ahmad, A. (2019). Phosphoric acid doped composite proton exchange membrane for hydrogen production in medium-temperature copper chloride electrolysis. *International Journal of Hydrogen Energy*.
 8. Nurul, A. H., **Sabli, N.**, Kok, K. Y., Ubaidah, S., Hikmat, S. H. (2020) Enhancement of Characteristics of Nitrogen-Doped Graphene Composite Materials Prepared by Ball: Milling of Graphite With Melamine: Effect Of Milling Speed And Material Ratios, 49 (7) 2020
 9. **Sabli, N.**, Bakar, N., Hilal, S. I. H. (2019). Membrane Electrode Assembly with High Efficiency and Stability: Effect of Solvent Type and Membrane Composition. *Sains Malaysiana*, 48(4), 877-885.
 10. Mohd Fadhzir, **Sabli, N.**, Tuan Amran, Ebrahim Abouzari, Arshad Ahmad. (2017). Preparation and Characterization of Phosporic Acid Doped Polybenzimidazole Composite Membrane for Copper Chloride Electrolysis System in Hydrogen Production. *International Journal of Hydrogen Energy*. Submitted (Under review)
 11. Munawarah Zazalli, Hiroyuki Yoshida, Mohd Halim Shah Ismail, **Nordin Sabli**, Shamsul Izhar. (2017). Recovery of oil from waste palm kernel cake by sub-critical water. *International Journal of Engineering and Technology*, 12 (24), 14574-14579
 12. **Sabli, N.**, Talib, Z. A., Hilal, H. S. (2017). Effect of annealing on properties of films deposited from synthesized CuSnSe source by thermal vacuum under argon gas condensation. *International Journal of Hydrogen Energy*, 42 (14), 90003-9010
 13. Zyoud, A., Al-Kerm, R. S., Al-Kerm, R. S., Waseem, M., Mohammed, H. H., Park, D., Hilal, H. S., **Sabli, N.** (2015). High PEC conversion efficiencies from CuSe film electrodes modified with metalloporphyrin/polyethylene matrices. *Electrochimica Acta*, 174, 472-479.
 14. 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. *Advance Materials Research*, 1107, 526-529
 15. **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.
 16. **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)
 17. 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.
 18. **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.
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19. **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.
20. **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
21. **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).
22. **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.
23. **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.
24. 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.

Chapter in Books

1. Megat Norulazni Mohamed Noor, Zahari Mohamad, Aludin Mohd Serah, Suazlan Mt Aznam, **Nordin Sabli** and Khamsiah Hamidah Mobel, **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 Civilizational Dialogue, UM.]
2. Kamaroddin, M. F. A., **Sabli, N.**, & Abdullah, T. A. T. (2018). Hydrogen Production by Membrane Water Splitting Technologies. *Advances In Hydrogen Generation Technologies*, 19.

Other Publications

1. **Patent:** '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). **PhD project**
2. **Patent:** 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**

Past Research Projects

Project No	Project Title	Role	Year	Source of Fund	Status
Undergraduate	Study on separation behavior on benzodiazepines in packed capillary electrochromatography	Undergraduate final project	1998	Toyohashi Univ. of Tech.	Completed

PhD	Photoelectrochemical properties of metal selenide thin films deposited by thermal vacuum evaporation in the presence of argon gas	PhD student	2011- 2014	Ministry of Higher Education: Exploratory Research Grant Scheme	Completed
GP-IPM/2015/9452000	Photoelectrochemical Properties of Metal Selenide Double-Layered Thin Films Deposited by Thermal Vacuum Evaporation in The Presence of Argon Gas	Head	2015 - 2017	Insentif Putra Muda (IPM)	Completed
Private fund/2016-2017	Resource Recovery of Cellulosic Waste Through Sub-Critical Water Reaction	Head	2016 -2017	Nets Printwork Sdn. Bhd	Completed
FRGS/1/2015/TK10/UPM/02/6	Mechanistic Framework of Photocatalytic CO ₂ Reduction Using Graphene Quantum Dot/ Copper Oxide Nanocomposite Photocatalysts	Head	2015 - 2017	Ministry of Higher Education: FRGS	Completed
GP-IPS/2016/9491600	Extraction of Fabric From Hospitalwaste Using Subcritical Water	Head	2016 - 2018	Geran UPM	Completed
GP-IPB/2014/9449902	Prototype Development of Graphene- Based Superhydrophobic Nanocoating	Member	2015 - 2017	Geran UPM	Completed
GP-IPS/2017/9536400	Production of Valuable Materials From Sago Bark Using Sub-Critical Water Treatment	Head	2017 - 2019	Geran UPM	Completed
Private fund/2015-2017	Application of cub-critical water Technology in Medical/ health care Waste management in Tropical country (Malaysia)	Head	2015-2017	Systrail (Malaysia) Sdn. Bhd	Completed
Private fund/2019/6300220	Development of non-precious metal catalyst Proton Exchange Membrane Fuel Cell	Head	2019-2024	Gakken Education (Malaysia) Sdn. Bhd.	In-progress
GP-IPS/2018/9634400	High-Temperature Electrolysis of Copper Chloride Using Hybrid	Head	2018-2020	Geran UPM	Completed

Proton Exchange Membrane
For Hydrogen Production

Honours and Awards

Name of Awards	Title	Award Authority	Award Type	Year
Gold medal (Category: Product innovation)	Product innovation	Malaysia Innovation Expo 2013, UPM	National University	2013
Gold medal (Category: Applied research)	Applied research	Malaysia Innovation Expo 2013, UPM	National University	2013
Anugerah Siswazah Cemerlang	Siswazah Cemerlang 2014 PhD (Sains Bahan) in Physics Dept.	Faculty of Science, UPM	Faculty of Science	2014

Language Proficiency

- English (Excellent, 5/5)
- Malay (Excellent, 5/5)
- Japanese (Excellent, 5/5)

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