DR CHAN KOK SHENG

Senior Lecturer
Faculty of Science and Marine Environment
Universiti Malaysia Terengganu

chankoksheng@umt.edu.my
+609 668 3494 / +60194982348
+609 668 3193

QUALIFICATIONS

- Doctor of Philosophy (Physics), Universiti Putra Malaysia
- Master of Science (Physics), University Putra Malaysia
- Bachelor of Science (Physics), Universiti Putra Malaysia

FIELD OF RESEARCH

- 1 Physics
- 2 Materials Science
- 3 Applied Optics

RESEARCH INTEREST

My current research interest focuses on the physics of materials science, especially on the synthesis and properties characterizations of chalcogenide-based materials and nanostructure, as well as the related composites materials for various future potential applications. Those properties characterizations involved optical, structural, morphological, electrical and thermal properties of the studied materials by using various characterization methods such as XRD, UV-Vis spectrophotometer, photoacoustic set-up, FTIR, FESEM, tensile testing, four-point probe etc. He also collaborates with other researches in their fields as co-researcher such as the composite materials used for hydrogen storage, polymer electrolyte battery and corrosion inhibition.

EXPERT LINKAGES

- Universiti Putra Malaysia

GRANTS

Project	:	Synthesis of Cadmium sulfide (CdS) Nano-semiconductor Materials and Their Applications
Position	:	Project leader
Grant Name	:	Fundamental Research Grant Scheme (FRGS)
Status	:	Completed
Amount	:	RM60,000

AWARDS

- Malim Ilmu UMT Award 2012- Award for Publication of Indexed Journal Article
- Best student supervisory award FSSM 2020

PUBLICATIONS

Selected Journal Articles

1. N. Harun, C. K. Sheng, M. G. M. Sabri, A. N. Dagang & H. Salleh (2020). Impact of TiO_2 and H_2O_2 on photocatalytic degradation of phodamine B under Ultraviolet C (UV-C) radiation for efficient polluted wastewater treatment. Journal of Optoelectronic and Biomedical Materials, 12(1):9 – 15.
2. Y. M. Alrababah, C. K. Sheng & M. F. Hassan (2019). Influence of ammonium nitrate concentration on structural evolution and optical properties tuning of CdS nanoparticles synthesized by precipitation method, Nano-Structures & Nano-Objects 19 10034.
3. Sheng, C. K. & Dwight, T. J. E. (2018). Photoluminescence, morphological and electrical properties of porous silicon formulated with different HNO_3 concentrations. Results in Physics, 10: 5–9.
4. Nurhaziqah, F., Sheng, C. K., Amin, K. A. M., Isa, M. I. N., Hassan, M. F., Ali, E. A. G. E., Kamarudin, K. H. & Aarif, R. (2018). Effect of HNO_3 Concentration on Etch Rate and Structure of Si Wafer Etched in the Mixture of HF and HNO_3 Solutions. ASM Sci. J. Special Issue, 1: 68–74.
5. Fekeri, M. F. M., Sheng, C. K.* & Yi, L. H. (2018). Corrosion inhibitive effect of thiourea on 1100 aluminium alloy sheet in hydrochloric acid solution. Malaysian Journal of Analytical Sciences, 22(6): 950–956.

SUPERVISION

Doctor of Philosophy Degree

Thesis Title	:	Photocatalyst Study of CdS Nanostructure
Student Name	:	Yousef M. Alrababah (Jordan)
Role	:	Supervisor

Status : Active

Master Degree

Thesis Title : Fabrication of Porous silicon nanostructure by etching method
Student Name : Dwight Tham Jern Ee
Role : Supervisor
Status : Completed

COURSE TAUGHT

- Physical Acoustics (Undergraduate)
- Optics and Laser Technology (Undergraduate)
- Solid State Physics (Undergraduate)
- Mechanics and Wave (Undergraduate)

LINKS

- SCOPUS: 56243333400
- WoS: D-1198-2018
- Researchgate: Chan Kok Sheng
- Academia.edu: Chan Kok Sheng
- ORCID https://orcid.org/0000-0003-2020-4759
- Google Scholar: Chan Kok Sheng