

## ASSOC. PROF. DR. FARIDAH SONSUDIN

Ph.D. – Faculty of Science, Japan (2010)  
MSc. Faculty of Sciency, Japan (2000)  
BSc. In Engineering (Hons)- Japan (1990)  
Japanese Language Teaching Certificate, Japan (1993)  
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### MAJOR RECOGNITION (IF ANY):

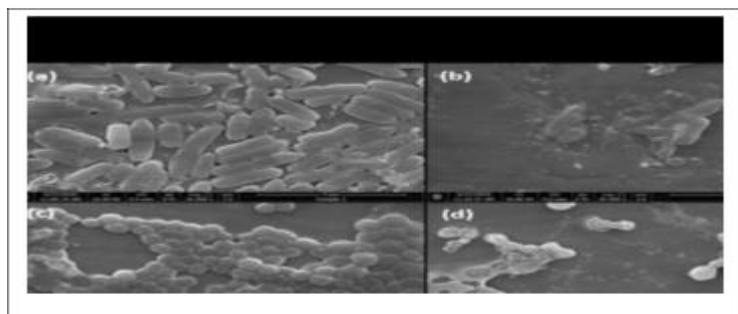
- PhD graduation under 3.5 years
- Received certificate of teaching Japanese Language, Japan Foundation, Saitama, Japan (1993)

### RESEARCH INTEREST

Polymeric Materials, Electrochemistry

### RESEARCH HIGHLIGHT

Current research focuses on the synthesis and modification of hydrogel from natural resource and its application for biomedical. Beside that, also has collaboration with other projects related to polymer and nanoparticles.



FESEM images of *E. coli* and *S. aureus* without any treatment, showing intact cell membrane (a,c), and the cells treated with ZnO/TiO<sub>2</sub>/AgNCs after 2 h, showing damaged cell membrane and leakage of the cellular contents (b,d).

### REPRESENTATIVE (FEATURED) PUBLICATIONS:

1. Facile In-Situ Fabrication of a Ternary ZnO/TiO<sub>2</sub>/Ag Nanocomposite for Enhanced Bactericidal and Biocompatibility Properties, Priyadarshini Sakthi Mohan, Faridah Sonsudin, Azizah Binti Mainal, Rosiyah Yahya, Gopinath Venkatraman, Jamuna Vadivelu, Dunia A. Al-Farraj, Amal M. Al-Mohaimed and Khaloud Mohammed Alarjani, *Antibiotics*, 2021, 10, 86
2. The impact of substitution of two hydrophobic moieties on the properties of guar gum based hydrogels, Mazrina Mazlan, Muhammad Rizwan, Ahmad Danial Azzahari, Vidhya Selvanathan, Faridah Sonsudin dan Nurshafiza Shahabudin, *Pigment & Resin Technology*, 2021
3. Phytosynthesis of biohybrid nano-silver anchors enhanced size dependent photocatalytic, antibacterial, anticancer properties and cytocompatibility, S. Priyadarshini, Faridah Sonsudin, Azizah Mainal, Rosiyah Yahya, V. Gopinath, Jamuna Vadivelu, Khaloud Mohammed Alarjani, Dunia A. Al Farraj, Hany Mohamed Yehia, *Process Biochemistry* 101 (2021) 59-71
4. Cellulose-based polymer electrolyte derived from waste coconut husk: residual lignin as a natural plasticizer Kai Ying Chua, Ahmad Danial Azzahari, Cheyma Naceur Abouloula, Faridah Sonsudin, Nurshafiza Shahabudin & Rosiyah Yahya, *Journal of Polymer Research* 27, 137 (2020)
5. The impact of acetylation on physical and electrochemical characteristics of cellulose-based quasi-solid polymer electrolytes, Muhammad Hazwan Ahmad, Vidhya Selvanathan, Ahmad Danial Azzahari, Faridah Sonsudin, Nurshafiza Shahabudin & Rosiyah Yahya, *Journal of Polymer Research* 27, 115 (2020)

### PROFESSIONAL ACTIVITIES:

Centre for Ionics University of Malaya (CIUM), Member, 2019-2021  
Alumni Look East Policy Society  
International Society of Electrochemistry (2011-2014)  
The Chemical Society of Japan (2008-2011)

### WEBSITE:

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