Department of Chemistry

Faculty of Science / University of Peradeniya



Dr. W. S. Subhashini Gunathilake

B.Sc. (Perad.), Ph.D. (UT Dallas, USA)

Senior Lecturer

malavi@pdn.ac.lk

spkmlv@gmail.com

+94 81 239 (4436)

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About Me

I am trained as a polymer chemist, with expertise spanning multiple areas of polymer science, including polymer synthesis, characterization, and their diverse applications in wastewater purification, corrosion inhibition, and wound healing. At the University of Peradeniya, my responsibilities include teaching in the field of physical chemistry, supervising both undergraduate and postgraduate research students, and managing various research grants as a Principal Investigator and Co-Investigator. In addition, I am actively engaged in collaborative research projects with several departments and institutions. These include the Department of Botany (Faculty of Science), Department of Microbiology (Faculty of Medicine), Department of Veterinary Pathobiology (Faculty of Veterinary Medicine and Animal Science), and the Department of Oral Medicine & Periodontology (Faculty of Dental Sciences) at the University of Peradeniya. I also collaborate with the Faculty of Applied Sciences at the University of Sri Jayewardenepura, as well as the Chemistry Department and IRC–Refining and Advanced Chemicals at the King Fahd University of Petroleum & Minerals, Saudi Arabia.

Higher Education Qualifications

PhD

University of Texas at Dallas
USA
(2014)

BSc

University of Peradeniya
Sri Lanka
(2008)

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Awards, Scholarships, Memberships & Fellowships

- Member of American Chemical Society (ACS) since 2012
- NRC Merit Award for Scientific Publications
- AHEAD-RIC-2019
- University of Peradeniya research grnats-2019

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Positions Held

- 1.Secretary – Board of Study in Chemical Sciences- (2024-2026)
- Secretary - Student Advisory and Welfare committee- (2021-2024)
- Secretary of University of Peradeniya Science Alumni Association- (2017-2019)
- Senior Treasurer-Ceylon Chemical Society- (2016-2017)

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My Teachings

- CH331: Physical Chemistry II
- CH332: Physical Chemistry III
- CH371: Industrial Chemistry
- CH436: Advanced Physical Chemistry III

Research Interests (Research Fields/ Projects)

Conjugated polymers for optoelectronic applications, polymers for water purification, polymeric dressing for wound healing applications.

Ongoing Research and Projects

- **Natural products incorporated biopolymer wound dressings**
- **Congugated polymers as counter electrode materials in dye sensitized solar cells**
- **Polymeric adsorbents in wastewater remediation**

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Key Publications

Nothing to show under this subheading !!!

Conferences

IIUPST-2017, Polymer symposium

HELD AT : University of Sri Jayawardenapura, Sri Lanka
TOPIC : *Coconut coir / Polyaniline composite for the removal of hexavalent Chromium from wastewater*

Peradeniya University International Research Sessions

HELD AT : Sri Lanka - (2015)
TOPIC : *Plantinum free dye-sensitized solar cell with Sri Lankan vein graphite/polyaniline composite counter electrode*

247th ACS National Meeting & Exposition

HELD AT : Dallas, TX, United states - (March 16-20 2014)
TOPIC : *Synthesis and Characterization of Novel Semiconducting Polymers Containing Pyrimidine*

247th ACS National Meeting & Exposition,

HELD AT : Dallas, TX, United states - (March 16-20 2014)
TOPIC : *Nitrogen containing graphene like structures from pyrolysis of pyrimidine polymers and their application in polymer/graphene hybrid field effect transistors*

7th International Symposium on Water Quality and Human Health-Challenges Ahead

HELD AT : PGIS, University of Peradeniya - (2019)

My Publications

Please goto the website.

https://sci.pdn.ac.lk/chemistry/staff/Subhashini-Gunathilake

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