



Department of Chemistry
Faculty of Science / University of Peradeniya



Dr. Sampath B. Alahakoon

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

Senior Lecturer

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About Me

I am currently a Senior Lecturer in Chemistry at the Department of Chemistry, University of Peradeniya. With a strong foundation in both teaching and research, I have dedicated my academic career to advancing the field of chemistry while guiding and inspiring the next generation of scientists. I earned my Ph.D. in Chemistry from the University of Texas at Dallas, USA in 2018, where I focused on developing functional porous polymers such as covalent organic frameworks (COFs) and metal-organic frameworks (MOFs) targeting applications. Following this, I completed my postdoctoral training at UT Dallas and Rice University in Houston, USA, where I expanded my expertise in developing functional 2D polymers for high-strength applications, e.g., bulletproof materials. I have had the privilege of publishing my work in several prestigious peer-reviewed journals, e.g., *Journal of the American Chemical Society*. My research interests now include developing biopolymer-based functional materials for water purification and converting waste into useful materials. In the classroom, I am committed to fostering an engaging and inclusive environment that promotes deep understanding and critical thinking in chemistry. My teaching philosophy emphasizes the importance of hands-on learning and the practical application of theoretical knowledge, which I believe are crucial for students' academic and professional development. Outside of academia, I enjoy staying with family, playing musical instruments, and cooking, which provides balance and a broader perspective on life.

Higher Education Qualifications

 **PhD**

The University of Texas, Dallas
USA
(2018)

 **BSc**

University of Peradeniya
Sri Lanka
(2013)

Awards, Scholarships, Memberships & Fellowships












Nothing to show under this subheading !!!

Positions Held

-  Graduate Teaching/Research Assistant: The University of Texas at Dallas, USA- (2013 August - 2018 August)
-  Postdoctoral Research Associate: The University of Texas at Dallas, USA- (2018 August - 2019 November)
-  Postdoctoral Research Associate: Rice University, Houston, USA- (2019 December - 2021 February)
-  Senior Lecturer in Chemistry: General Sir John Kotelawala Defence University- (2021 March - 2023 July)
-  Faculty Coordinator, Basic and Applied Sciences Session: KDU-IRC 2022- (2022)
-  Visiting Lecturer in Chemistry: Department of Chemistry, University of Peradeniya- (2023 March - 2023 July)
-  Senior Lecturer in Chemistry: Department of Chemistry, University of Peradeniya- (2013 July - to date)
-  Secretary, RESCON 2024: Postgraduate Institute of Science, University of Peradeniya- (2024)
-  Co-coordinator, M.Sc. in Nanoscience and Nanotechnology : Postgraduate Institute of Science, University of Peradeniya- (2023 July - to date)
-  Temporary Demonstrator: Department of Chemistry, University of Peradeniya- (2013 February - 2013 July)

My Teachings

-  AS434: Industrial Organic Chemistry
-  CH417: Advanced Inorganic Chemistry
-  CH426: Natural Products Chemistry
-  CHE1091: Elementary Chemistry Laboratory II
-  CHE2112: Inorganic Chemistry I
-  CHE2122: Inorganic Chemistry II
-  CHE2181: Inorganic Chemistry Laboratory I
-  CHE3192: Advanced Inorganic Chemistry Laboratory
-  CHE3512: Biological Chemistry I

Research Interests (Research Fields/ Projects)



Nothing to show under this subheading !!!

Ongoing Research and Projects



Nothing to show under this subheading !!!

Key Publications



Nothing to show under this subheading !!!

Conferences



Nothing to show under this subheading !!!

My Publications

Please goto the website.

<https://sci.pdn.ac.lk/chemistry/staff/Sampath-Alahakoon>