

Biography Dr. Robabeh Bashiri, MRCs, Associate Member - IChemE

Postdoctoral Research at Department of Environmental Technology



Dr. Robabeh Bashiri received her master's degree in Inorganic Chemistry from Payam-e-Noor University, Iran, and her PhD in Chemical Engineering, Universiti Teknologi PETRONAS (UTP), Malaysia, 2016.

After graduating, she joined the Centre of Innovative Nanostructures and Nanodevices (COINN), UTP, Malaysia, as a senior research scientist. In 2020, she was awarded by the Polish National Agency for Academic (NAWA) under the Ulam Program and joined the University Gdańsk as a postdoctoral researcher from January 2021.

She is an expert in inorganic chemistry with a primary research passion in the design and synthesis of various nanocomposite materials, including the three-dimensional Cu and Ag based-Metal-Organic Frameworks (MOF), zero and one-dimensional heterostructure of semiconductor metal oxides (TiO_2 , SrTiO_3 , WO_3 , CuO , Fe_2O_3 , and BiVO_4), and carbon-based materials such as reduced graphene oxide and C_3N_4 for various applications like renewable energies, carbon sequestration, air and water purification, and biotechnology.

Her research led to 39 peer-reviewed journals with more than 400 citations (h-index =13), two book chapters, 12 conferences, three filled patents, and a granted industrial design. She secured different research grants from Malaysia and the United Kingdom, two silver and gold medals from international exhibitions, and two best paper awards. She is an assistant editor of International Journal of Hydrogen Energy and has been invited to serve as a committee member for several conferences and peer-review services for recognized journals.