



Dr Ghulam Mustafa joined Suleman Abalkhail Center for Interdisciplinary Research in Basic Sciences (SACIRBS), International Islamic University in January, 2016. Previously he served as an Assistant Professor for two years at the Department of Environmental Sciences, Quaid-i-Azam University Islamabad, Pakistan and group leader of “Environmental Nanotechnology and Chemical Sensors” research group. Prior to joining Quaid-i-Azam University, Dr Mustafa worked as a postdoctoral fellow from July, 2011 to September, 2013 at the

Institute of Chemistry, University of Vienna and was the member of well-known scientists team working on the fabrication of a simple and fully integrated sensing system for the detection and identification of especially engineered nanoparticles (ENPs) in cosmetic products, food and/or drinks (Project; INSTANT:EU-FP7 NMP4-SE-2012-280550). He completed his PhD in 2011 with distinction from the Institute of Analytical Chemistry, University of Vienna Austria and during his PhD he worked on the fabrication of soft metal sulfide nanoparticles and nanocomposite based sensors for thiols and alcohols detection. He has achieved excellent success in challenging fields including sensor technology, nanotechnology, analytical chemistry, materials chemistry, environmental chemistry and his research work has resulted in a number of publications in high level journals.

Dr Ghulam Mustafa's research group currently focuses on the design and development of mass sensitive (Quartz Crystal Microbalance), electrochemical and optical biosensors and chemical sensors. His research activities are focused on a wide variety of topics including the synthesis, characterization of novel nanostructured chemically-selective recognition materials (molecularly imprinted polymers (MIPs), thin-films, nanoparticles, core-shell nanomaterials and nanocomposite) and further their applications for the separation and detection of analyte of interest/contaminants/pollutants (volatile organic compounds (VOCs), toxic gases, macromolecules, heavy metals, pesticides, proteins, fungus, viruses and bacteria etc). The group's scientific collaborations are extensive and include those within the center and those with other departments at International Islamic University, other universities, industrial partners, and international research groups.