



Prof. Alireza Z. Moshfegh

Department of Physics and Institute for Nanoscience and Nanotechnology
Sharif University of Technology, Tehran 11155-9161, Iran
E-mail: moshfegh@sharif.edu

Alireza Moshfegh received his Ph.D. in Physics (Experimental Surface Physics) from the University of Houston, Texas (USA) in 1990. After two years postdoc research at Texas Center for Superconductivity at the University of Houston (TCSUH), he joined Physics Department at the Sharif University of Technology (SUT) in Tehran, Iran. He became full professor in Physics in 2005 and then was elected as chairman of Physics

Department at SUT from 2006 to 2009. He is a key founder of several national societies namely Surface Science and Technology, Vacuum Science and Technology, Nanoscience and Nanotechnology as well as Condensed Matter Physics. Professor Moshfegh became the top outstanding physics researcher of Iran in 2011. He has established a multidisciplinary group called NEST (Nano, Energy, Surface and Thin film) in SUT in 2011 (<http://nest.sharif.edu/>). He was elected as the first Chair of Surface and Interface Physics in Iran in 2015. His current research interests focus on the synthesis and characterization of nanostructures and low-dimensional materials in particular novel 2D materials, such as graphene, transition metal dichalcogenides (TMDs) and g-C₃N₄ for clean energy production and environmental remediation. He is also actively involved in applications of nanostructured materials in production of hydrogen via Photoelectrochemical Water Splitting reaction and CO₂ reduction, as well as Photo-degradation of toxic wastes to useful chemicals, by using solar energy harvesting. He has published more than 130 research articles and several review papers with about 2800 citations with the h-index of 30 as well as a co-edited book on “Physics and Technology of Thin Films”.