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Nanoscale sovereignty for waste water remediation

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Nanomaterials offer unique and unexpected material properties and this is due to the fact that at nanoscale, materials can be 'tuned' to build faster, lighter, stronger, more efficient and stimuli responsive materials. Such properties of nanomaterials provide a platform for eco-toxicological based research investigations. Presently, there is limited knowledge and understanding for a number of major uncertainties with respect to chemical behavior, chemical and biological interactions and toxicological properties of engineered nanomaterials. Clean water is always essential which often calls for a cheap and efficient water purification system. Nanomaterials are being used to develop more cost-effective and high-performance water treatment systems. Remediation is the process of pollutant transformation from toxic to less toxic in water. The focus of the talk will be the recent advancement and development of the nanoscale sovereignty for the waste water remediation.

Biography

Prof. Shivani Bhardwaj Mishra has completed her PhD at the age of 30 years from Jamia Millia Islamia, New Delhi and postdoctoral studies from University of the Free State & University of Johannesburg. She is the Professor of Nanotechnology at University of South Africa which is a premier University. She has published 2 books, 30 book chapters and around 65 papers in reputed journals and also serving as reviewer and member of scientific board of repute.

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