


Environmental Remediation using Nanotechnology

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Abstract

Environmental pollution has been bigger concern for both developing and developed countries. Nanotechnology has been an emerging area of research due to its versatile applications in many research domain due to their high surface area, reactivity and better performance in cleaning the environment. It is interesting to note that due to large surface area to volume ratio and the presence of larger number of reactive sites where nano size materials could be highly reactive. These characteristic of nano size materials allows higher affinity of the contaminants for the quick remediation of the contaminants. The current talk will be focused on the over view of nanotechnology and its potential applications for environmental remediations.

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Biography

Ajay Kumar Mishra (MSc, MPhil, PhD, CSci, FRSC) is currently working as Full Professor at the Department of Chemistry, KIIT University, India. Professor Mishra is also affiliated as Director at the Academy of Nanotechnology and Waste Water Innovations, South Africa, Visiting Professor(s) at Robert Gordon University, UK, Bashkir State University, Russia, Vaal University of Technology, South Africa, Hebei University of Science and Technology, China and Adjunct Professor at Jiangsu University, China. Prof Mishra's distinct educational and research background and hands-on experience have contributed to his emergence as a highly knowledgeable nano-scientists in the field. Prof Mishra completed his MPhil & PhD in Chemistry from the University of Delhi, India. Prior to this, he had worked as Professor at University of South Africa, besides working Associate Professor and Senior Lecturer at University of Johannesburg, South Africa. Prof Mishra also worked as postdoctoral fellow at University of the Free State and University of Johannesburg, South Africa. He served as Director of the Centre of Nanomaterials at the University of Johannesburg, South Africa and

also Chair of the IEEE Nanotechnology Council, South Africa Chapter. Prof Mishra has published more than 150 papers in peer-reviewed international journals, 30+ books and contributed over 65 book chapters. He has also delivered more than 110 plenary/keynote/invited/guest lectures and graduated 13 PhD's, 20 Master's students and hosted 10 postdoctoral fellows. Prof Mishra have been named on a list of the top 2% of the most-cited scientists in various disciplines globally. Prof Mishra has also secured number of international grants. Prof Mishra have attained considerable national and international recognition, as well as awards including "Fellow member" and "Chartered Scientist" by Royal Society of Chemistry, UK and Chancellor's Prize, UNISA, South Africa. Prof. Mishra also served as Associate Editor as well as member of the editorial board of many peer-reviewed international journals and books. He is serving as member advisory board of a number of international scientific societies, conferences and workshops.