

## Smart Material 2021: Nanocomposite materials for remediation of waste water - Ajay Kumar Mishhra, South Africa

Ajay Kumar Mishhra

### Abstract

Nanotechnology has been an emerging area of research due to its versatile application in many research areas. Composite comprise of mixing two component where one is matrix and other one is reinforce materials. The reinforce materials based on their nano sizes results in nanocomposite materials. The nanocomposite materials usually possess a high surface area which ultimately enables in the remediation of waste water. Waste water remediation usually has variety of area and our research group mainly focusses on the removal of organic and inorganic components from waste water. The current talk will be focused on the synthesis and future application of nanocomposite materials for waste water remediation.

### Biography

Ajay Kumar Mishra is a full Professor at the Nanotechnology and Water Sustainability Research Unit at College of Science,

Engineering & Technology, University of South Africa, Florida Science Campus, South Africa and also a "Fellow" member at "Royal Society of Chemistry" UK. He received his B. Sc, M. Sc., degrees in 1997 and 2001 respectively from Purvanchal University Jaunpur, India and M. Phil. and Ph.D. degrees in 2003 and 2007, respectively, from The University of Delhi, India. From March 2006 to September 2009, he was postdoctoral fellows at various South African Institutes/Universities. In addition, he was appointed as "Senior Lecturer" in October 2009 at the Department of Applied Chemistry, University of Johannesburg, South Africa where he was promoted to "Associate Professor" in November 2011 until December 2014. Recently, he was appointed by University of South Africa as "Full Professor" since January 2015.

**Bottom Note:** This work is partly presented at 2nd World Congress on Smart Material and Material Science at July 21-22, 2021 | Webinar

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