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## Fabrication of ternary nanocomposite material and its potential applications

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Nanotechnology, which is a powerful technology of the 21st century, fulfills all the criteria that lead to the development of science and technology. In addition, nanotechnology also helps in sustainable development of many social communities. The area of nanotechnology encompasses synthesis and characterization of nano scale materials, the understanding and the utilization of their potential applications. This piece of writing provides information on the development of ternary nanocomposite material synthesized via the *in situ* oxidative mechanism and their potential applications. The nanocomposite was characterized by using Fourier Transform Infrared Spectroscopy (FTIR), powder X-Ray Diffraction (XRD), Scanning Electron Microscopy (SEM), EDX, elemental mapping and High-Resolution Transmission Electron Microscopy (HRTEM). The composite showed improved electro-chemical properties, excellent photocatalytic degradation properties and outstanding biological activities for biomedical applications.

### Biography

Rani Bushra has completed her PhD in Chemistry from Aligarh Muslim University (AMU), Aligarh, India and Postdoctoral studies from Department of Chemistry, AMU, India and Universiti Sains Malaysia. She is currently working as Post-Doctoral Fellow at Department of Chemistry and Center of Excellence for Innovation in Chemistry, Faculty of Science, Mahidol University, Thailand. She has published 28 papers in journals of international repute. She also has published eight book chapters in RSC, Elsevier and Springer.

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