

# Environmental Science journals

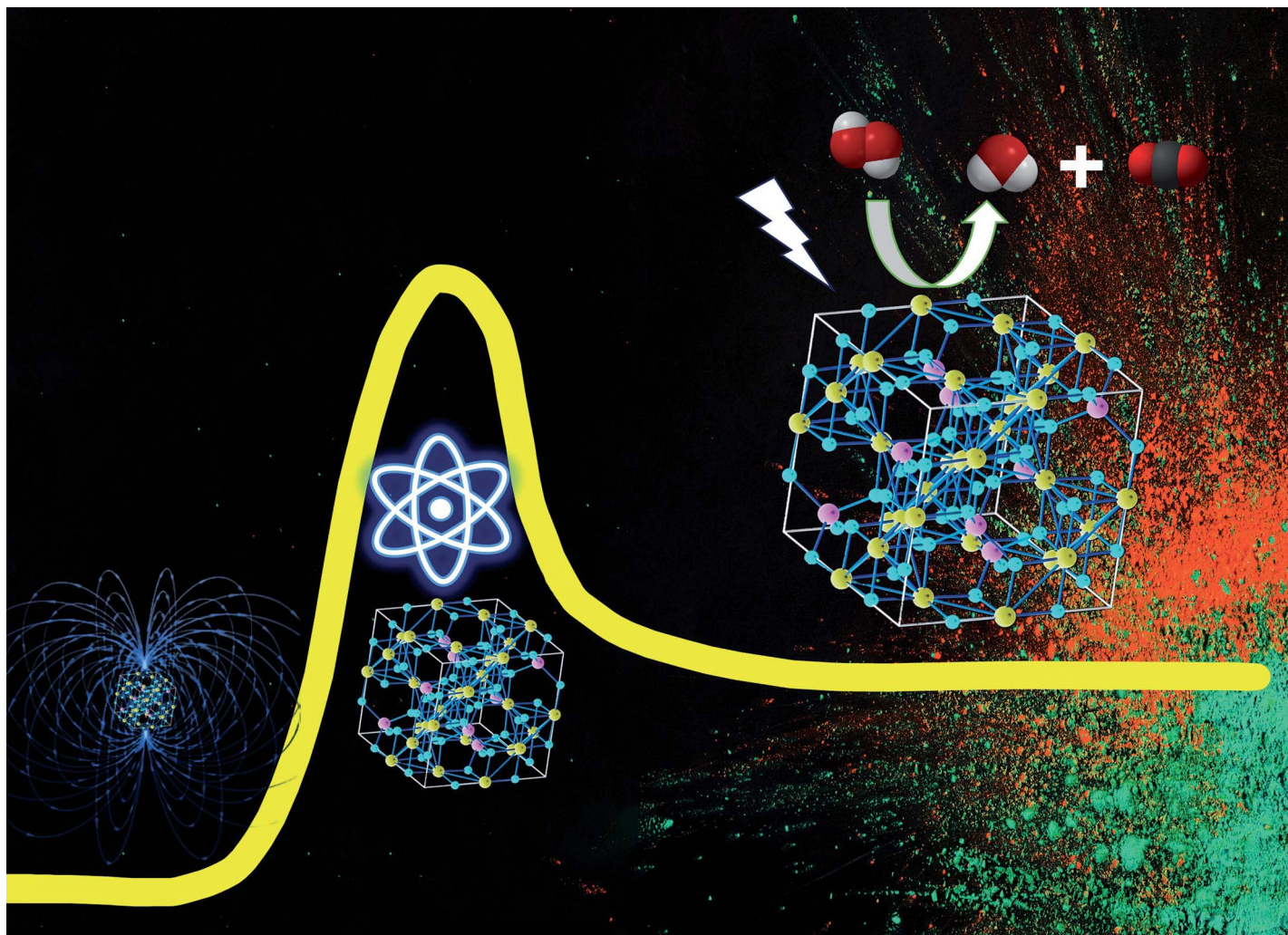
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Fundamental questions  
Elemental answers



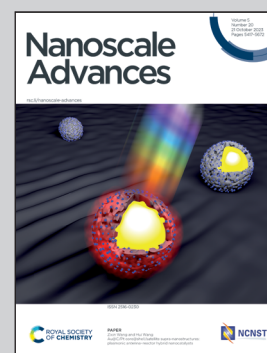


Showcasing research from Professor Chowdhury's laboratory, Material Nanochemistry Laboratory, Institute of Advanced Study in Science and Technology, Guwahati, India.

Nanocrystalline Ni-Zn spinel ferrites: size-dependent physical, photocatalytic and antioxidant properties

Nanostructured  $\text{Zn}_{0.3}\text{Ni}_{0.7}\text{Fe}_2\text{O}_4$  samples of different particle size were prepared *via* the chemical co-precipitation method. The emergence of superparamagnetic behavior has been observed for the smallest-sized Ni-Zn ferrite nanoparticles. Ni-Zn spinel ferrite nanoparticles also exhibited size-dependent scavenging of free radicals. Additionally, Ni-Zn spinel ferrite nanoparticles demonstrated efficiency as a catalyst in degrading MB dye under light illumination.

As featured in:



See Mritunjoy Prasad Ghosh, Devasish Chowdhury *et al.*, *Nanoscale Adv.*, 2023, 5, 5460.