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oxide of pH solution and was correlated with average size. The optimal pH for maximum mineralization in the  $H_2O_2$  /iron oxide system was found to be 2.8. Finally, results indicated that at least seven stages of catalytic mineralization-recovery cycles can

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Iron oxide nanoparticles supported on zirconia were prepared by precipitation-deposition method and characterized by XRD, SEM, FT-IR, TGA/DTA,

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oxide Nanocatalysts. surface area and particle size analysis. Catalytic activities of the catalysts were tested in the gas-phase conversion of cyclohexanol in a fixed-bed flow type, Pyrex glass reactor, at 433 - 463 K. Major detected products were cyclohexanone, cyclohexene ...

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3.1. Characterization of  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles The UV–visible spectra of  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> NPs synthesized using C. rotundus extracts showed continuous absorption in the visible region, but small differences in the

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displayed UV range. The  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> NPs showed strong absorption in the UV range compared to FeCl<sub>3</sub> (figure 1(a)). Similar UV–visible

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IRON OXIDES. Iron oxide is a mineral

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compound which occurs abundantly in nature. It presents more than one crystal structure and also different structural and magnetic properties (Cornell and Schwertmann 2000; Machala et al. 2011). The main forms of these minerals are hematite, magnetite and maghemite (Babay et

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(al. 2015; Cornell and Schwertmann  
2000).

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Thus, the present work aims the synthesis, characterization and determination of photocatalytic activity of iron oxide ( $\text{Fe}_2\text{O}_3$ ) nanocatalyst, evaluating the effect of hybridization with titanium ( $\text{TiNPs-Fe}_2\text{O}_3$ ) and silver ( $\text{AgNPs-Fe}_2\text{O}_3$ ) nanoparticles, on the degradation of Rhodamine B

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Nanocatalysts were characterized by XRD, SEM, TEM, FTIR, N<sub>2</sub> porosimetry (BET/BJH method), zeta potential and DRS. Photocatalytic

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oxide nanocatalyst In tests were performed in a slurry reactor, with the nanocatalyst in suspension, using RhB as a target molecule, under ultraviolet (UV) and visible radiation.

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**Abstract:** Magnetic iron oxide nanoparticles have attracted attention because of their idiosyncratic physicochemical characteristics and vast range of applications such as protein separations, catalysis, magnetic resonance imaging (MRI), magnetic sensors, drug delivery, and

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magnetic refrigeration. The activity of the catalyst depends on the chemical composition, particle size, morphology and also on the atomic arrangements at the surface.

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In these oxide nano compounds, which are generally low soluble and possess brilliant colors, the iron is present in the form of Fe (III). The extremely important advantages of nanostructured iron, in comparison with other nanomaterials, are its relatively low toxicity and capacity to

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be biodegradable.

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In summary, iron oxide decorated Pt NPs supported on rGO were synthesized and used in the catalytic oxidation of glycerol. The electronic

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property of Pt NPs can be regulated by iron oxide and the contact mode of iron oxide, Pt and rGO. The intrinsic activity of these catalysts was found strongly dependent on the electron enrichment of Pt NPs.

**Modulating the electronic property**

*Page 32/75*



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Prepared zinc oxide and iron oxide nanocatalyst are excellent photocatalytic oxidation material used for treating industrial effluent [32, 33]. In the current research, it could be used to remove the organic pollutant present in the sea food industry

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effluent treatment. catalyst In

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Monika Joanna Rak, Michael Lerro,  
Audrey Moores, Hollow iron oxide  
nanoshells are active and selective  
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styrene with molecular oxygen, Chem.  
Commun., 10.1039/C4CC04749D, 50,  
83, (12482-12485), (2014).

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manganese oxides, aluminum oxides,  
titanium oxides, magnesium oxides

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and cerium oxides, which provide high surface area and specific affinity for heavy metal adsorption from aqueous systems. Tanya Tsoncheva et al [36] prepared mesoporous ceria and SBA-15 silica with iron and  $\text{Cr}_2\text{O}_3$  NPs. The simultaneous presence of iron

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Today's chemical industry processes worldwide largely depend on catalytic reactions and the desirable future evolution of this industry toward more selective products, more

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environmentally friendly products, more energy-efficient processes, a smaller use of hazardous reagents, and a better use of raw materials also largely involves the development of better catalysts and, specifically, purposely designed catalytic materials. The careful study and development of

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available information about the iron oxides. It presents a coherent, up to date account of the properties, reactions and mechanisms of formation of these compounds. In addition, there are chapters dealing with iron oxides in rocks and soils, as biominerals and as corrosion products

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together with methods of synthesis and the numerous application of these compounds. Their role in the environment is also discussed. The authors are experts in the field of iron oxides and have worked on all the topics covered. Much recent data from the authors' own laboratories is

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included and opportunities for further research are indicated. Special features are the electron micrographs and colour plates together with the many different spectra used to illustrate properties and aspects of behaviour. Numerous tables and graphs enable trends and relationships



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to be seen at a glance. The book concludes with an extensive bibliography. This book should prove invaluable to industry and to all researchers who, whatever their background and level of experience, are interested in this rapidly expanding field. It is an essential volume for any

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National Science Foundation (NSF), along with a team of American co-hosts that includes Chad Mirkin, Mark Hersam, Evelyn Hu, and several other eminent U.S. scientists. The study performed in support of the U.S. National Nanotechnology Initiative (NNI) aims to redefine the R&D goals

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Nanoparticles are a result of rapid  
scientific progress. Nanoparticles refer  
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1-100 nm in at least one dimension. Nanoparticles are surrounded by an interfacial layer which affects its properties. This layer is made up of organic molecules, ions and inorganic molecules. Due to the on-going technological advancements, nanoparticles are gaining prominence

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across all scientific fields such as medicine, manufacturing, materials science, chemistry, etc. This book covers in detail some existing theories and innovative concepts revolving around nanoparticles. Comprehensive language and content ranging from the basic to the most complex theories



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and practices in the field of In nanotechnology makes this book an ideal reference guide for students, researchers and experts.

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far from being a scientific conundrum, and instead a real answer to some of the actual problems the whole planet is dealing with.

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