



Introduction to Materials Science

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Abstract:

Materials science, the study of the properties of solid materials and how those properties are determined by a material's composition and structure. It grew out of an amalgam of solid-state physics, metallurgy, and chemistry, since the rich variety of materials properties cannot be understood within the context of any single classical discipline. With a basic understanding of the origins of properties, materials can be selected or designed for an enormous variety of applications, ranging from structural steels to computer microchips. Materials science is therefore important to engineering activities such as electronics, aerospace, telecommunications, information processing, nuclear power, and energy conversion.

Biography:

Ratnesh Das is a Professor in the Department of Chemistry, Dr. Harisingh Gour Central University, Sagar, India. He commands a rich experience in teaching, and research of about 16 years during which he has supervised many sponsored research projects. His active research areas include Heterocyclic synthesis, medicinal chemistry, electro-organic chemistry, synthesis of nano-catalysts and green chemistry. He has authored about 60 research papers in peer-reviewed national and international journals and refereed conferences organized by professional societies around the world. He is an active member of several professional bodies and societies, both in India and abroad. He is a vibrant speaker and delivered many lectures in conferences, workshops, and seminars organized both in India and abroad.



Publication of speakers:

- Ratnesh Das et al..An Efficient Green Synthesis of Some Functionalized Spiro Chromene Based Scaffolds as Potential Antitubercular Agents.
- Ratnesh Das et al..ISSN 0975-413X CODEN (USA): PCHHAX Synthesis, Antitubercular Activity and DNA-binding Study of some 2-Amino-3-cyano-4H-chromen-4-ylphosphonates.
- Ratnesh Das et al..Absorption, Emission Spectroscopic and Molecular Docking Study of Glutamic Acid with Double-Stranded Calf Thymus DNA.
- Ratnesh Das et al..A facile synthesis of some novel indole derivatives as potential antitubercular agents
- Ratnesh Das et al..Porous CuO catalyzed green synthesis of some novel 3-alkylated indoles as potent antitubercular agents

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