

Special Issue

Nanostructured Metal Oxides: From Growth to Application

Message from the Guest Editors

Metal oxides and hydroxides exhibit exceptional stability and possess a wide range of physicochemical properties, making them valuable for energy storage and conversion, optoelectronics, catalysis, sensing, and various other applications. When reduced to the nanoscale, these materials undergo significant changes in their physical and chemical characteristics, such as dielectric, thermal, magnetic, and mechanical properties. Nanostructured metal oxides and hydroxides have demonstrated substantial advancements in fields like medicine, information technology, catalysis, energy storage, and sensors. To highlight these developments, this Special Issue seeks comprehensive research on the synthesis, characterization, and applications of nanostructured metal oxides and hydroxides. Leading scientists and engineers engaged in growth, synthesis, analysis, property characterization, theoretical investigations, and applications of these materials are encouraged to submit original research and review articles.

Guest Editors

Prof. Dr. Sun Ig Hong

Dr. Rathinam Yuvakkumar

Dr. Hossein Minouei

Deadline for manuscript submissions

closed (20 June 2024)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of
Birmingham, Birmingham B15 2TT, UK

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