Special Issue

Advanced Applications of Nanomaterial Photovoltaic and Sensing Properties for Analytical Testing

Message from the Guest Editors

This Special Issue seeks contributions that unravel the innovative applications of nanomaterials in harnessing solar energy, focusing on their photovoltaic properties. The research spotlight extends to their equally compelling role in analytical testing, where nanomaterials serve as key components in sensors and detectors for a myriad of applications, from environmental monitoring to healthcare diagnostics. The Special Issue, titled “Advanced Applications of Nanomaterial Photovoltaic and Sensing Properties for Analytical Testing”, heralds a dynamic exploration of the confluence of nanotechnology, photovoltaics, and analytical testing. Researchers are encouraged to submit their contributions to shape this compelling narrative and chart the course for the next generation of nanomaterial applications. See more information at: https://www.mdpi.com/si/188749

Assistants

Guest Editors

Dr. Zhen Zhang

Dr. Meiling Lian

Dr. Zhengang Han

Dr. Xiao Li

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

mdpi.com/journal/nanomaterials

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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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