

Special Issue

Nanoenergetic Materials: Preparation, Properties, and Applications

Message from the Guest Editors

The advancement in the synthesis approaches and the advent of tools of characterization of materials at multiple length scales have pushed the energetic materials community to explore new era. During the past two decades, several significant achievements in research on nanoenergetic materials (nEM) have been realized, thanks to the technological novelties in the field of nanoscience and nanotechnology. nEM have been found to be potential sources of extremely high heat release rates and tailored burning rates, reliability, extraordinary combustion efficiency, safety, and reduced sensitivity. These materials certainly play a vital role in widespread applications. The improvement of properties and the discovery of new functionalities and methodologies are key goals that cannot be reached without a better understanding of the preparation, characterization, manufacturing, and properties that constitute the starting points of the design of specific and adequate systems. The investigation of ... For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/nanomaterials/special_issues/nanoenergetic

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Deadline for manuscript submissions

closed (31 October 2020)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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