



Bimetallic Nanoparticles

Guest Editor:

Prof. Dr. Sergei Trukhanov

Scientific Practical Materials
Research Centre of National
Academy of Sciences of Belarus,
Minsk, Belarus

Deadline for manuscript
submissions:

closed (31 July 2021)

Message from the Guest Editor

Low-dimensional metallic materials with a strong correlation between composition, microstructure, and physical phenomena attract much attention due to the large number of fundamental aspects and prospects for practical applications. Bimetallic nanoparticles demonstrate such unique cooperative phenomena, like superconductivity, giant magnetoresistance, skyrmions, vortex–antivortex pairs, etc., and can be used on practice as high-sensitivity magnetic sensors; for biomedical applications (drug delivery); etc. The features of chemical processes critically influence crystal structure and physical properties in functional nanosized bimetallic particles. That is why it is so important to investigate correlations between synthesis, structure, and properties for new materials development. New theoretical and experimental data lead to the development of new technologies that will make our world better. I kindly invite you to make a contribution to the Special Issue of *Nanomaterials* titled “Bimetallic Nanoparticles”.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [CAPlus / SciFinder](#), [Inspec](#), and [other databases](#).

Journal Rank: JCR - Q1 (*Physics, Applied*) / CiteScore - Q1 (*General Chemical Engineering*)

Contact Us

Nanomaterials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
[X@nano_mdpi](#)