Special Issue

Superconductivity in Nanosystems

Message from the Guest Editor

This Special Issue of "*Nanomaterials*" aims to cover the most recent research in superconducting nanomaterials or nanosystems. Specific topics include, but are not limited to, the following: Fabrication and/or measurement of novel superconducting nanosystems, such as:

- nanosized superconductors: nanowires, nanogranular systems
- superconducting thin films, bidimensional or nano-layered systems
- hybrid superconducting-nonsuperconducting nanointerfacing systems
- micro- or nano-patterned nanostructured superconductors, etc.

Studies of the effects induced by reduced dimensionality over the superconducting characteristics, such as:

- critical temperature and magnetic fields
- vortex pinning and matching
- superconducting fluctuations
- emergence of topological or other novel quantum states, etc.

Development of superconducting nanosystems for quantum technologies, such as:

- photon detection, bolometers and/or resonant devices,
- qubit or quantum information devices based on Josephson junctions, quantum dots, or other superconducting nanosystems, etc.

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2022)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/82210

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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
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