

Special Issue

Electronics, Electromagnetism and Applications of Nanomaterials

Message from the Guest Editor

Dear colleagues, Electronics in nanomaterials is one of the scientific disciplines at the forefront of the fast-emerging fields of nanoscience and nanotechnology. Nanoelectronics holds answers for how the capabilities of electronic devices can be increased while reducing their weight and consumption. Additionally, the possibility of eternally shrinking integrated circuits, wearing flexible gadgets, spreading internet-of-things everywhere, etc. is becoming a reality thanks to nanotechnology. Similarly, very interesting magnetic behaviors can be produced in materials thanks to the nanometric dimensions of the systems or of the crystallites forming them. Potential applications in nonreciprocal systems, magnetic recording, high-performance soft materials and magnets, microsensors and microactuators, functionalized magnetic particles, etc. are being revolutionized by developments in nanomagnetism. This Special Issue of *Nanomaterials* aims to explore the applications of nanomaterials, including the fields of electronics, magnetism, spintronics, etc. Prof. Dr. Anna Vilà

Guest Editor

Prof. Dr. Anna Vilà

Department of Electronic and Biomedical Engineering, University of Barcelona, 08028 Barcelona, Spain

Deadline for manuscript submissions

closed (31 August 2021)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/23924

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

[mdpi.com/journal/
nanomaterials](https://mdpi.com/journal/nanomaterials)





Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



[mdpi.com/journal/
nanomaterials](https://mdpi.com/journal/nanomaterials)



About the Journal

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

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, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General
Chemical Engineering)