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Electronics, Electromagnetism and Applications of Nanomaterials

Guest Editor:

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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 Vila

Guest Editor



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Special Issue



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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.

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