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Thin Films Based on Nanocomposites

Guest Editors:

Dr. Marcela Socol
National Institute of Materials Physics, 077125 Magurele, Romania

Dr. Nicoleta Preda
National Institute of Materials Physics, 077125 Magurele, Romania

Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editors

Dear Colleagues,

Involving two or more organic and/or inorganic components, nanocomposites are characterized by enhanced properties owing to the synergistic effect resulting from the combined desirable attributes of their component materials. One of the hottest current research topics is the design and development of nanocomposites as thin films with tailored properties suitable for applications in different fields. Consequently, this Special Issue invites the authors to contribute with research articles or reviews focused on synthesis, characterization, and/or applications of thin films based on nanocomposites. Potential topics include, but are not limited, to the following:

- Nanostructured thin films
- Nanocomposites based on organic and/or inorganic materials
- Conducting and insulating polymers; natural and synthetic biopolymers
- Metal oxides, semiconductors, metals, dielectrics, carbon nanostructures
- Synthesis by wet (solution processing) and dry (thermal oxidation, magnetron sputtering) methods
- Preparation by laser and vapor deposition techniques
- Lithography processing

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Special Issue

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Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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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Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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