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Nanomanufacturing of Photoactive Materials: From Synthesis to Applications

Guest Editor:

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Deadline for manuscript submissions: closed (15 September 2023)

Message from the Guest Editor

Dear Colleagues,

Photoactive materials are capable of activating various responses when they interact with light. The fields of lightdriven research have been broadened to various directions. such as photovoltaics, photocatalysts, optoelectronics, light-emitting diodes, phototransistors, photoacoustics, photochemical reactions. photoluminescence, optomechanics, opto-spintronics, photodynamic therapies, biophotosensors, etc. Nanomanufacturing uses a wide variety of novel methods to fabricate nanosized photoactive materials and miniaturized opto-devices, striving for eventual scalability to industry production. The nanoscale materials production includes nanoparticle powders and fluids, guantum dots, nanorods, nanotubes, nanowires, nanopatterns, ultra-thin films, and metalorganic-frameworks.

This Special Issue aims to collate research reports on advanced nanoscale approaches of photoactive nanomaterials and small-scale devices throughout the processing from synthesis to application—we are especially interested in research with potential leading to transferability of commercialization.

Specialsue



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Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Candido Fabrizio Pirri

 Department of Applied Science and Technology, Politecnico di Torino, C.so Duca degli Abruzzi 24, 10129 Turin, Italy
Center for Sustainable Future Technologies, Italian Institute of Technology, Via Livorno 60, 10144 Turin, Italy The capability to manipulate, assemble, and fabricate nano-objects have given rise to nanoscience, one of the most rich and interdisciplinary fields of research. In fact, mechanics, optics, magnetism, or electronics at the nanoscale strongly differ from their macroscopic counterparts, and thus several disciplines are necessary to study nanomaterials. This field's development parallels the technical advances that have made it possible to control matter at the nanoscale. Our journal, Nanomanufacturing, seeks to provide a forum for discussion and a platform to publish the latest results regarding the fabrication. manipulation, scalability, eventual industrial and production of miniaturized devices or objects. All of our articles are published with rigorous refereeing and open access

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