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Current Trends in Up-Converting Nanoparticles

Guest Editor:

Prof. Dr. John Capobianco

Concordia University Research
Chair in Nanoscience,
Department of Chemistry and
Biochemistry, Co-Director Centre
for NanoScience Research,
Concordia University, 7141
Sherbrooke St. W., SP 275.13,
Montreal, QC H4B 1R6, Canada

Deadline for manuscript
submissions:

closed (31 January 2015)

Message from the Guest Editor

Dear Colleagues,

Upconverting nanomaterials have received enormous attention over the past years, resulting in a plethora of applications, which impact our daily lives. These applications cover a range of fields (from chemistry, physics and biology, to medicine, engineering and electronics), and may be considered to cover four broad categories: optoelectronics, bio-nanomedicine, security and alternative energy. The enormous number of publications, which has accelerated since the late 90's and the continued development of upconverting nanomaterials reflect this.

This issue of *Nanomaterials* will consider the synthesis, characterization, functionalization and applications (MRI, PDT, imaging, theranostic, photovoltaic, optoelectronics) of upconverting nanomaterials.

Prof. Dr. John Capobianco

Guest Editor



mdpi.com/si/2534

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Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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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Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
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