Special Issue

Advances in Nanomaterials for (Opto-)electronic Devices

Message from the Guest Editors

(Opto-)electronic functional devices represent a class of components that are indispensable in our information society, as they play important roles in information generation, modulation, sending, transmission, sensing, processing, displaying, etc. The age of Internet of Things (IoT) is placing rising requirements on future-generation optoelectronic devices in terms of their volume, performance, power consumption, multi-functionality, flexibility, and wearability, to name a few. In this context, nanomaterials (0D, 1D, 2D), as a result of their appealing properties arising from reduced dimensionality, have demonstrated rich potential to meet the stringent demands for diverse electronic as well as optoelectronic devices. This Special Issue aims to collect original research articles and reviews in the rapidly developing field through both fundamental studies and practical applications. Topics covered include, but are not limited to, the synthesis and growth of nanomaterials, the construction and characterization of functional structures, and the fabrication and characterization of (opto-)electronic devices.

Guest Editors

Dr. Lin Wang

School of Mechanical Engineering, Shanghai Jiao Tong University, Shanghai, China

Dr. Junyong Wang

Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO), Chinese Academy of Sciences, Suzhou 215123, China

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

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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