

Special Issue

Advances in Crystal Growth Research

Message from the Guest Editor

This Special Issue “Advances in Crystal Growth Research” aims to collect theoretical and experimental studies of the physicochemical phenomena and processes related to the design, growth, defects, and applications of crystalline materials. Because of its high quality and ordered packing structure, crystal is regarded as the best platform to investigate the intrinsic properties of materials. Crystal growth is a simple process of crystallization and growth, however, many questions concerning crystal nucleation and growth dynamics as well as defects in the crystal surface and interior are still unclear, which limits the exploration of intrinsic properties and the application. Thus, technologies and integrating the fields of crystal engineering, growth, intermolecular interactions, and application are encouraged. We invite research contributions reporting advances on topics such as bulk crystals and substrate technologies, epitaxy, defect and doping, interface and surface analysis, structural characterization, and study of relevant properties (including morphological, physical, optical, electric, etc.) of growth materials (bulk, monolayer, and nanostructure).

Guest Editor

Prof. Dr. Tao He

State Key Lab of Crystal Materials, Shandong University, Jinan 250100, China

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

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Message from the Editor-in-Chief

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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