Special Issue

Synthesis and Characterization of the Growth of Epitaxial Films

Message from the Guest Editor

The “Synthesis and Characterization of the Growth of Epitaxial Films” is a hot topic covering a wide range of scientific and engineering fields in an equally wide range of industrial sectors such as microelectronics, optics, defense, spatial, jewelry and so on. Epitaxial growth is a bridge between crystal growth and device manufacturing, bringing a very high added value to the final products. Novel synthesis techniques have been developed, such as 3D printing epitaxy, and have evolved alongside well-established ones, for which developments are also taking place, such as MBE and its atomic sublimation or valved sources, CVD and its variants, PLD, sol-gel, etc. This Special Issue will address advances in the synthesis and characterization of epitaxial films growth with focuses on:

- the interplay between the growth of the films and their properties;
- novel film growth and characterization techniques;
- new materials epitaxially grown as thin films.

Guest Editor

Dr. Matthieu Petit

Centre Interdisciplinaire de Nanoscience de Marseille, Marseille (CINaM-CNRS), Aix-Marseille Université, Marseille, France

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

mdpi.com/journal/materials

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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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