

## Special Issue

# Advances in Biomaterials 2011

### Message from the Guest Editor

The design of innovative biomaterials has led to outstanding success in clinical applications over the past decades, such as in orthopedics or cardiovascular surgery. This rapidly evolving field is developing the next generation of biomaterials based on new compounds, processing technologies, three-dimensional architectures or self-adaptive materials to design scaffolds with improved biological integration and function. Nanostructured surfaces, optimized interactions with stem cells or long-term drug delivery are some of these various innovations that will greatly benefit to their development. This special issue of *Materials* will combine the expertise of engineers, chemists, biologists, and clinicians to present some of the most promising innovations in the development of the next generation of biomaterials in a wide variety of biological and clinical applications.

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### Guest Editor

Dr. François Berthod

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### Deadline for manuscript submissions

closed (30 April 2011)



## Materials

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## About the Journal

### 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.

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### Editor-in-Chief

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