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Optimal Design of Materials and Structures

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Deadline for manuscript submissions:
closed (30 October 2019)

Message from the Guest Editors

Dear Colleagues,

The understanding and application of the optimal design of materials and constructions is a truly interdisciplinary endeavor. This work is an attempt to bring together recent developments in the field—from materials science, mechanics, optimization and engineering manufacturing including quality control and measurement techniques—into a single volume. An isotropic or anisotropic material cannot be treated as an existing material structure that can be directly utilized by designers. For engineering structures, the determination of optimal solutions by means of material design is more reliable, efficient and necessary in modern science and using modern techniques. The aim of this Special Issue is to explain and prove that seemingly different structural and manufacturing process optimization problems in the area of the material design can be solved in a unified, compact manner.

The forthcoming Special Issue of *Materials* aims to follow new advances in the attractive field of optimal design in engineering. It is our pleasure to invite you to contribute your research article, communication, or review to this Special Issue.

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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.

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