Special Issue

Advances in Materials Processing

Message from the Guest Editors

Materials processing is an important process in realizing the structural features required for a given product to perform well in its intended application by properly utilizing and designing the composition of a given material. This involves a complex series of chemical, thermal, and physical processes that prepare a starting material, create a shape, retain that shape, and refine the structure and shape. The conversion of the starting material to the final product occurs in three steps: preparation of the starting material, processing operation, and post-processing operation(s). Recently, trends in the high-tech industry have been pushing toward miniaturization, the creation of products with complex shapes, and multifunctional materials. To keep up with ever-increasing demands, materials processing has seen continuously advancements in production and efficient and performance qualifications. The main aim of this Special Issue is to discuss the topic of processing, manufacturing, the structure/property relationship, and applications in advanced materials. All of the single-phase, alloy, and composite materials in metals, ceramics, and polymers are of interest.

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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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