Special Issue

Materials with Advanced Properties Fabricated by Spark Plasma Sintering

Message from the Guest Editor

Spark plasma sintering (SPS) and field-assisted sintering technology (FAST) have attracted increasing attention from academic researchers and industrials. An improved understanding of these process has led to the development of new high-performance materials and materials with enhanced properties. Advances in the knowledge, modeling and the development of derived techniques, such as cold-, high-pressure- and flash-SPS, have resulted in consolidated and fully dense materials, multiple materials with controlled architectures, complex forms (near net shape) and/or microstructures. This Special Issue, entitled “Materials with Advanced Properties Fabricated by Spark Plasma Sintering”, aims to provide an overview of the latest innovations in the development of novel materials, high-performance materials and materials with enhanced properties generated with SPS, FAST and derived processes (cold-, HP- and flash-SPS). Full articles, papers and reviews are all welcome.

Guest Editor

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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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