

Special Issue

Advances in Materials Processing Engineering

Message from the Guest Editors

Various types of metallic and composite structures are used in modern engineering. For aerospace, car industry, or civil engineering applications, the most important are complex spatial structures made of different types of metallic alloys, fibrous composites, and functional materials. The current applications in modern engineering require various non-traditional processing technologies combining smart manufacturing technologies and systems, including plastic forming, materials joining, additive manufacturing, etc. This Special Issue focuses on advanced manufacturing technology for metal and composite forming and aims at solving the key and difficult problems in the forming processing of advanced metal and composite structures. In recent years, with the complex use of new materials and structural design optimization of engineering products, the traditional forming process suffered great challenges. Research on how to realize the formation of functional structures under the action of multiple dimensions, coupled force fields, thermal fields, and magnetic fields play an important role in the development of industrial applications.

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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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