

Special Issue

Advanced Materials Design and Manufacturing Technologies of Nonferrous Metals

Message from the Guest Editors

Although the consumption of non-ferrous metal materials (Mg, Al, Zn, Ti, Cu, Ni, etc.) only accounts for 5% of the total consumption of metal materials, they play an important role in engineering because of their excellent electrical and thermal conductivity, small relative density, stable chemical properties, heat resistance and corrosion resistance. Recently, advanced materials design and manufacturing technologies have been developed, for example, machine learning, CALPHAD methods, high throughput computing, additive manufacturing, semi-solid processing, etc. This Special Issue focuses on the development of advanced materials design and manufacturing technologies which has opened up a new way for the application of non-ferrous metals in structural and functional materials. It is my great pleasure to invite everyone to submit a manuscript for this Special Issue. Full papers, communications, or reviews on advanced materials design and manufacturing technologies of nonferrous metals are all welcome.

Guest Editors

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Dr. Deqiao Xie

Deadline for manuscript submissions

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Message from the Editorial Board

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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