Special Issue

Recycling and New Technologies in Metallurgy and Foundry

Message from the Guest Editors

Reusing alloys and special materials in metallurgy and molding sands and materials in foundries reduces production costs and enables the production of new technical materials. The articles included in this Special Issue aim to present the latest trends in research on and the application of new technologies in metallurgy and foundry using special materials and methods for their processing and reuse. Therefore, the collated publications should not only highlight advances in developing these technologies but the properties of engineering materials already known and widely used should also be discussed. The topics covered by the submitted articles should relate to the development of new engineering materials, recovery methods for melting steel, new technologies for modifying molten steel, new processing techniques and heat treatment, and studies on microstructure and properties. Articles on the molding sand reclaims, the chemical compositions of alloys, melting processes, the modification, structures, properties, and applications of new engineering materials as well as the properties of alloys already used are welcome.

Guest Editors

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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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