Special Issue

Ductility, Formability and Microstructure of Alloys and Steels

Message from the Guest Editors

The continuous development of new products demands continuous improvements in steels and special alloys for target applications. Improving the mechanical properties and related functional properties are always a major focus in the field of metallurgy. Many factors affect the final properties and are considered in the entire production process from the chosen raw materials and alloy additions, scrap, the melting practice, melt-refining operations, casting control, plastic deformation for grain refining and texturing, and control over phase transformations during and after deformation (hot rolling, regular or precise hot forging, etc.) or implementing special thermo-mechanical treatments, high-deformation techniques, special off-line heat treatments, and others. An important functional property among many in the sheet, plate, wire, and beam production is formability, while ductility is the most important material property that can be measured on industrial or laboratory-prepared samples. This Special Issue focuses on the Ductility, Formability and Microstructure of Alloys and Steels.

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Deadline for manuscript submissions

closed (20 June 2024)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/171691

Materials
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mdpi.com/journal/materials

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Indexed in PubMed

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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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