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Research and Analysis in Structural Steels

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Message from the Guest Editor

Steel is the undisputed leading structural material in Mechanical Engineering, and it is one of the two main materials in Civil Engineering structures. Even in reinforced concrete, steel rebars have an essential role by resisting the tensile stresses. Steel is recyclable, and its structures are light and can be designed as demountable and reusable. Although iron and steel have been widely used in structures since the industrial revolution, steel is still a material that has many possibilities for improvement and, therefore, it is suitable to open lines of research about it or to delve into unfinished ones.

This Special Issue aims to investigate steel as a structural material, considering all the possible fields of study: stainless steel, welded joints, high-strength steels, steel rebars, additively manufactured steels, corrosion, etc. These subjects can be studied from different points of view: mechanical, microstructural, material modelling, steel design, etc.

In summary, the present Issue is open to all research pieces involving steel as a structural material in any of its applications and from any of the possible technical or scientific perspectives.



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Special Issue



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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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