Special Issue

Carbon-Refractory Metals Nanostructures: Synthesis, Characterization and Applications

Message from the Guest Editor

This Special Issue is focused on the emerging concepts allowing the design of new or improved carbon-refractory metals with improved nanostructured performance, as well as the characterization of the microstructure and properties of carbon-based materials with high resistance to heat and wear. The main goal is to present the latest developments in the field of carbon-refractory metal nanostructures to enhance their specific functionality in industrial applications. This Special Issue will be an overview of the characterization and applications of the nanostructured complex combination of carbon with refractory metals (niobium, molybdenum, tantalum, tungsten and rhenium, but also considering all elements with a melting point above 2,123 K) using different methods for synthesis. The topics of interest include, but are not limited to:

- Innovative synthesis and characterization methodologies
- New technology trends and applications
- Surfaces, interfaces and thin films
- Substrate influence, sample preparation
- Experimental condensed matter physics

Guest Editor

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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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