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Carbon-Refractory Metals Nanostructures: Synthesis, Characterization and Applications

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Message from the Guest Editor

Dear Colleagues,

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



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Special Issue



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