

Special Issue

Recent Advances in Nanoporous and Nanostructured Metals

Message from the Guest Editor

Nanoporous and nanostructured metals have sparked increasing interest thanks to the versatility of morphology and the intriguing properties that can be employed in a wide range of applications. This Special Issue is devoted to recent advances in the synthesis of nanoporous and nanostructured metals prepared by different techniques, including but not limited to dealloying and electrodeposition means. Experimental works focused on applications of nanoporous and nanostructured metals are welcome in this Special Issue. In general, the topics of interest include the following aspects: Advanced synthesis and characterization of nanoporous metals, nanowires, nanoparticles, nanotubes, and all possible unconventional metal nano-shapes; Exploration of fields of catalysis, electrocatalysis, SERS, sensing, actuation, energy, sieves, and magnetic and other potential applications; Related effects of synthesis conditions on the final structure and properties of nanoporous and nanostructured metals.

Guest Editor

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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