



Nanoporous Films

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Nanoporous metals with extremely large specific surface area and tunable porosity have gained considerable attention due to their outstanding optical, electrical, catalytic, and mechanical properties.

The aim of this Special Issue is to further advance the understanding of nanoporous metal films and broaden their application fields. Both experimental and theoretical works are welcome for this Special Issue.

In general, the topics of interest include but are not limited to the following aspects:

Effects and mechanisms of synthesis conditions on the final structure and properties of nanoporous metal films;

Advanced techniques on the preparation and characterization of nanoporous metal films;

Exploration of application fields in catalysis, actuation, sensing/biosensing, fuel cell, super capacitor and other potential applications;

Novel nanoporous metal films with better performance with hierarchical structures or composite components.





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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.

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