

## Special Issue

# Surface Engineering to Create Composite Nanomaterials with Improved Functional Properties

### Message from the Guest Editors

One of the important tasks of modern materials science is the development of new composite materials with improved functional properties. Currently, research is being actively carried out related to the development of combined approaches in the synthesis of new-generation composites by structuring them both in bulk and on the surface to improve functional properties (magnetic, mechanical, biomedical, catalytic, etc.). Requirements for the structure and physicochemical properties of composites, including nanomaterials, vary depending on the specific application. Therefore, the role of the surface in controlling the properties of composites cannot be overestimated. By studying the influence of the surface of the reinforcing phase on the structure and properties of the composite, it is possible to achieve a deeper understanding of the processes of formation of metal and ceramic composites and further directionally predict their properties. This Special Issue will present the latest work on the synthesis and modification of materials, including nanomaterials, to form new composites, from nanostructure to modeling and practical applications.

### Guest Editors

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### Deadline for manuscript submissions

closed (20 April 2025)



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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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