

Special Issue

Core-Shell Nanostructures for Functional Applications

Message from the Guest Editors

It is known that the properties of a surface are different from those of the bulk material. For macroscopic objects, contribution of the surface characteristics to overall behavior of the material often can be neglected. Nanostructures, in contrast, have high surface-to-volume ratio and their properties are strongly affected by a few atomic layers at the surface. Therefore, even a very thin coating can drastically influence the properties and overall behavior of the nanoscale materials. This opens a route for fine-tuning the characteristics of nanostructures by combining two or more materials in a single core-shell heterostructure. This Special Issue aspires to collect regular and review articles focusing on the synthesis, characterization, and modelling of functional core-shell nanostructures aimed at potential applications in emerging technologies.

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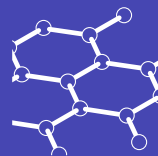
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Deadline for manuscript submissions

closed (20 September 2023)



Applied Nano

an Open Access Journal
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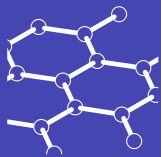


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Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 4.2 days (median values for papers published in this journal in the first half of 2025).