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# Synthesis and Advanced Characterization of Low-Dimensional and Quantum Materials

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## Message from the Guest Editors

Reducing dimensionality in matter to an atomic-scale opens the door to physical and chemical properties inaccessible in its bulk counterpart.

From 2-dimensional to 0-dimensional materials, novel and unexpected behaviors are observed in the electronic band structures, thermal and electronic transport, light–matter interaction, chemical reactivity, and mechanical stiffness, as well as quantum mechanical effects related to spatial confinement and nontrivial topological state of the matter.

In this Special Issue, the experimental and theoretical state-of-the-art approaches for the synthesis and advanced characterization of low-dimensional and quantum materials are highlighted and discussed aiming to improve the knowledge of the most important topics about condensed matter.

It is our pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.









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## **Editor-in-Chief**

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### Message from the Editor-in-Chief

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