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Synthesis, Properties, and Applications of Low-Dimensional Transition Metal Oxides and Selenides

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Message from the Guest Editors

Low-dimensional transition metal oxides and selenides have garnered significant attention in the scientific community owing to their unique physical and chemical characteristics. These materials demonstrate novel electronic, optical, magnetic, and thermal properties, paving the way for unparalleled opportunities in diverse technological applications, ranging from high-speed electronic devices to efficient energy storage and conversion techniques, as well as advanced optoelectronic detection and sensing technologies.

This research topic is aimed at publishing the latest advancements and breakthroughs in the field of low-dimensional transition metal oxides and selenides, including explorations of the synthesis methodologies, novel processing strategies, key performances and fundamental mechanisms, and multifaceted applications.

Deadline for manuscript submissions:

20 November 2024



mdpi.com/si/185707

Special issue



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Message from the Editor-in-Chief

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