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Complex Oxide Thin Films

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Deadline for manuscript submissions:
31 October 2024

Message from the Guest Editors

Complex metal oxides are a very important class of materials because of their very interesting fundamental scientific phenomena and very appealing physical properties for practical applications. In particular, thin films of complex metal oxides, down to the nanoscale, represent an important set of such materials for both fundamental research and technological applications. When epitaxially grown on a single-crystal substrate, the properties of complex oxide thin films can be potentially engineered by the lattice of the substrate, showing distinct properties of their bulk form. More interestingly, complex oxide interfaces can exhibit emergent physical and chemical properties markedly different from those of the bulk materials on either side.

This Special Issue focuses on complex oxide thin films and aims to reflect recent advances in the range of new oxide thin films synthesized, new thin film growth methods, new physical properties discovered from oxide thin films, and perspectives on the future development of oxide thin films.

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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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Journal Rank: JCR - Q2 (*Crystallography*) / CiteScore - Q2 (*Condensed Matter Physics*)

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