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Emerging Perovskite Materials: Synthesis, Properties and Diverse Applications

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Message from the Guest Editors

Dear Colleagues,

Perovskite is a calcium titanium oxide mineral with the crystal structure of ABX_3 . Any materials having a similar crystal structure of $CaTiO_3$ are known as perovskite-structured materials. From the discovery of perovskite minerals in the 18th century, numerous perovskite-structured materials ranging from ceramic oxides to hybrid organic–inorganic semiconductors have been discovered. These specific crystal-structured materials have intriguing physical properties ranging from insulation to superconducting properties, which have been used for various applications including photovoltaic, optical, electrical, superconductors, magnetic, catalytic, and environmental applications.

This Special Issue will bring together high-quality research and review articles on synthesis, properties, and diverse applications of perovskite-structured materials



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Special issue



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Message from the Editorial Board

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