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Layered Perovskites: Synthesis, Properties and Structures

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Message from the Guest Editor

The layered perovskites can be classified as Ruddlesden–Popper, Dion–Jacobson and Aurivillius structures. The structure of these compounds includes perovskite layers separated by layers, in which are only metal cations, usually alkaline or alkaline earth. The materials with layered perovskite-related structures have many various applications due to their different physical-chemical properties. These properties are dependent on the nature of ions in the crystal lattice. For the last decades, different compositions with layers of perovskite structures were described as superconductors, giant and colossal magnetoresistors, microwave dielectrics, phosphors, mixed ionic and electronic conductors, dielectrics, magnetic materials, thermoelectrics, photocatalysts for hydrogen production, materials for high-efficiency photovoltaic cells, oxygen-ionic conductors, protonic conductors.

In this Special Issue, we wish to cover the most recent advances in all these aspects of layered perovskites by hosting a mix of original research articles and short critical reviews.

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Message from the Editor-in-Chief

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