



an Open Access Journal by MDPI

Layered Perovskites: Synthesis, Properties and Structures

Guest Editor:

Prof. Dr. Nataliia Tarasova

 The Institute of High Temperature Electrochemistry of the Ural Branch of the Russian Academy of Sciences, 620066 Ekaterinburg, Russia
Institute of Natural Sciences and Mathematics, Ural Federal University, 620000 Yekaterinburg, Russia

Deadline for manuscript submissions: closed (15 July 2023)

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.



mdpi.com/si/138413







an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Duncan H. Gregory

School of Chemistry, University of Glasgow, University Avenue, Glasgow G12 8QQ, UK

Message from the Editor-in-Chief

Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Chemistry, Inorganic & Nuclear*) / CiteScore - Q2 (*Inorganic Chemistry*)

Contact Us

Inorganics Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/inorganics inorganics@mdpi.com X@inorganics_MDPI