Special Issue

Optoelectronic Properties of Metal Oxide Semiconductors

Message from the Guest Editor

Metal oxides have emerged as promising material candidates in various optoelectronic applications. Compared with amorphous silicon (a-Si) and organic semiconductors, metal oxides offer unique advantages, such as tunable bandgap and the ability to be controllably doped. However, the wide application of metal oxide semiconductors relies on a better understanding of optoelectronic properties that covers essential details of structure properties, band structure, transport, and optical and magnetic properties of semiconductors. This Special Issue focuses on the most recent advances in aspects of optoelectronic properties and applications of metal oxide semiconductors in the form of original research articles and critical reviews. Other related topics, such as 2D material optoelectronics and Si-based devices, are also welcome to the Special Issue.

Guest Editor

Dr. Zemin Zhang
School of Physical Science and Technology, Lanzhou University, Lanzhou 730000, China

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Inorganics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
inorganics@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Duncan H. Gregory
School of Chemistry, University of Glasgow, University Avenue, Glasgow G12 8QQ, UK

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