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Application and Characterisation of Hybrid Halide Perovskites

Guest Editor:

Dr. Vanira Trifiletti
University of Milano - Bicocca, Department of Materials Science and Milano - Bicocca Solar Energy Research center (MIB-SOLAR), 20125 Milan, Italy

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Message from the Guest Editor

Dear Colleagues,

This Special Issue concerns the application and characterisation of hybrid halide perovskites, which have, over the last few years, become the focus of the photovoltaic research community. The fast enhancement of the related solar cell performance is due to their unique photophysical properties, such as remarkable optical absorption across a wide range of the solar spectrum. Hybrid halide perovskites have an ABX_3 structure (where A = methylammonium, formamidinium rubidium, caesium; B = tin, lead; X = iodine, chlorine, bromine) and thin films can be grown by different methodologies ranging from vacuum technologies to wet chemistry. Mixing the cations and/or the halides, perovskite with band gap from 1.1 to 3.0 eV can be obtained and, therefore, this class of materials is also attractive for applications in lasing, light-emitting and thermoelectric devices.

Original research papers and review papers related to the application and characterisation of hybrid halide perovskites are welcome. Applications or characterisation techniques will also be considered for publication.
Dr. Vanira Trifiletti
Guest Editor

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Editors-in-Chief

Prof. Dr. Hugo F. Lopez
Department of Materials Science and Engineering, College of Engineering & Applied Science, University of Wisconsin-Milwaukee, 3200 N. Cramer Street, Milwaukee, WI 53211, USA

Prof. Dr. Yong Zhang
Beijing Advanced Innovation Center of Materials Genome Engineering, State Key Laboratory for Advanced Metals and Materials, University of Science and Technology Beijing, 30 Xueyuan Road, Beijing 100083, China

Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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Contact Us

Metals Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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