Special Issue

Hybrid Organic–Inorganic Perovskites: Current Status and Future Perspectives

Message from the Guest Editor

Hybrid organic–inorganic perovskites triggered an impressive excitement in the field of photovoltaics since the first evidence of efficient use of MAPbI3 as absorber in 2009. Research of materials and photovoltaics cell architectures pushed the efficiency of perovskite-based solar cells to 22.1% in 2016. Meanwhile, perovskite materials were shown to be excellent candidates for optical applications. All these experimental achievements, together with theoretical modelling, opened questions that still need to be solved, such as the long-term stability of perovskite solar cells, the presence of toxic lead, the ion migration issue, etc. Other important aspects to be considered are the characterization methods of solar cell performance and the fundamental physical and chemical properties of these materials. This Special Issue aims to collect papers that review the actual status and future directions of hybrid organic–inorganic perovskites, from both basic and applied points of view, as well as research papers reporting new achievements in this field.

Guest Editor

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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

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