Special Issue

Photoelectric Research in Advanced Energy Materials

Message from the Guest Editors

Rapid advancements in nanotechnology have revolutionized the field of photoelectric materials, ushering in a new era of highly efficient and versatile devices, such as solar cells and photoelectrochemical water-splitting applications. Among these, nano–micro materials have emerged as pivotal components, exhibiting exceptional photoelectric properties that are essential in next-generation solar cells and photoelectrochemical applications. In particular, perovskites, nanocrystals (NCs), quantum dots (QDs), and metal–organic frameworks (MOFs) have garnered significant attention due to their unique optical and electronic characteristics.

Perovskite/NC/QD/MOF materials, with their outstanding light absorption and charge transport properties, have led to remarkable progress in solar cells and photoelectrochemical applications. This Special Issue will bring together significant contributions from researchers in academia and industry, highlighting advancements in nanomaterial science across various applications. Please join us in this exploration of photoelectric materials and their transformative impact on solar energy and photoelectrochemical technologies.

Guest Editors

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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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