Special Issue

Nanomaterials for Photoelectrochemical Hydrogen Evolution

Message from the Guest Editors

This Special Issue is dedicated to novel approaches towards the properties of nanomaterials for photoelectrochemical hydrogen production. Nanomaterials' properties can be tuned to achieve the optimum band-gap required to increase the efficiency of the PEC cell. The structure–property correlation of nanomaterials plays a crucial role in that field. The ordered characteristic of nanomaterials after microscopic organization within the material causes an improved band-gap for electron–hole pair transfer. The aim is to achieve creating a highly efficient photo-electrocatalytic device that modifies the intrinsic properties of the nanomaterials used in photocathodes and photoanodes towards hydrogen generation.

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Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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