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Advanced Research of Nanoparticles for Photoelectrochemical Applications

Guest Editors:

Dr. I. Neelakanta Reddy

School of Mechanical Engineering, Yeungnam University, Gyeongsan 712749, Korea

Dr. Adem Sreedhar

Department of Physics, Gachon University, Seongnam 461701, Gyeonggi-do, Korea

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Message from the Guest Editors

The development of environmentally friendly energy such as hydrogen via photoelectrochemicals can be generated by regulating catalytic activity in response to external stimuli (i.e., pH, temperature, light, morphology). The integration of novel materials in a new generation of catalysts could allow us to develop breakthrough systems characterized by unique functional properties, such as adaptability, stability, a high generation of photocurrents, temporal control on the occurrence of the reactions, and dynamic specificity towards particular interfaces Photoelectrochemical techniques are unique and simple compared with other hydrogen production techniques. For those reasons, photoelectrochemical method deserves more extensive investigations. This Special Issue intends to cover the most recent progresses in the preparation of "advanced research of nanoparticles for photoelectrochemical Applications" with particular emphasis on new synthetic and design-driven approaches that enable the success of dynamic, stimuli-responsive systems.



Specialsue





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Editor-in-Chief

Prof. Dr. Alessandra Toncelli Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

Message from the Editor-in-Chief

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Crystals Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/crystals crystals@mdpi.com X@Crystals_MDPI