Special Issue

Latest Advances and the Prospects of Photo(electro)catalytic Application of Nanomaterials

Message from the Guest Editor

Nanomaterials are receiving increasing interest for their potential photo(electro)catalytic applications in areas such as solar water splitting, carbon dioxide reduction, nitrogen reduction reaction, hydrogen evolution reaction, organic matter degradation, etc. Compared to conventional catalysis, photo(electro)catalysis has proven itself to be a fast, facile and environmentally friendly approach for catalytic reaction. Despite the growing interest in photo(electro)catalysis for energy and environmental applications, the photo(electro)catalytic reaction mechanism of nanomaterials remains obscure due to the complicated physical and chemical processes involved. A major effort is needed from across the whole scientific community to enhance our understanding of the controllable preparation and involved mechanisms of photo(electro)catalysis, and to widen its application scope in energy and environmental fields. This Special Issue aims to collect the original research papers or short reviews covering the synthesis and application of nanomaterials for photo(electro)catalysis.

Guest Editor

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