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Advances and Applications of Light-Driven Heterojunction Built-In Nanomaterials

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Deadline for manuscript submissions:
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Message from the Guest Editors

The material science domain contains a variety of photocatalysts that can address this versatile area of application. This prospect has led to a large amount of multidisciplinary research on the built-in heterojunction photocatalyst with improved structural, morphological and electronic properties, effectively increasing their efficiency. This Special Issue will provide an overview of the latest advances in this field, offering insights into the latest generation of photocatalytic materials. It plans to focus on the challenges, future directions and strategies for designs within the area of heterojunction photocatalysts and will be a useful resource for promoting research in this field. Therefore, the Special Issue will focus on:

- Advanced materials and their heterojunctions for enhanced photocatalysis;
- Photocatalyst modification (e.g., by noble metal, C nanotubes, etc.) and doping;
- Photoelectrochemical, photocatalytic and photobiological solar fuel production;
- Innovative synthesis and characterization methodologies.



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Special Issue



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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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