

## Special Issue

# Metal Sulfide-Based Photocatalysts for Environmental Remediation and Green Energy Production

### Message from the Guest Editor

The growth in the global population has resulted in the constant increase in environmental pollution and the need for sustainable and cheap energy sources. Therefore, the design and development of advanced materials for environmental remediation and green energy production are significant topics. There are a wide range of materials with photocatalytic applications, such as semiconductors, semiconductor-based heterojunctions, perovskites, and metal-organic frameworks (MOFs). Among these materials, due to their unique properties, such as suitable band gap energy for the absorption of light in the Vis and/or UV regions, chemical and photochemical stability, particle size, surface area morphology, etc., metal sulfide semiconductor nanostructures are considered attractive candidates for water/air treatment and purification, hydrogen production via photoelectrolytic water splitting, CO<sub>2</sub> reduction, the photodynamic therapy of cancer, and self-cleaning surfaces. It is our pleasure to invite you to submit original research articles and reviews to the Special Issue, focusing on, but not limited to, the abovementioned issues.

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### Guest Editor

Prof. Dr. Luminița Isac  
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### Deadline for manuscript submissions

closed (30 August 2024)



## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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