

## Special Issue

# Advances in Photocatalytic Processes for Sustainable Energy Conversion and Environmental Engineering

### Message from the Guest Editors

Environmental pollution and energy shortage have become critical issues that require urgent action from humans worldwide. One of the most noticeable and applicable technique to deal with these problems is the use of photocatalytic processes, where the photocatalysts can be used to remove pollutants from the environment and to produce various energy sources, such as hydrogen, hydrocarbon, syngas, etc. The performance of photocatalytic processes depends on various factors including the types of semiconductors, material bandgaps, material nanostructures, reactor designs, etc. This Special Issue aims to publish the most recent findings in engineering and developments for the improvement of photocatalysis processes, targeting energy conversion and environmental remediation. This Special Issue will focus on, but is not limited to, photocatalysis processes for:

- Air pollution remediation;
- Waste water remediation;
- Hydrogen production;
- CO<sub>2</sub> reduction into fuels.

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### Guest Editors

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Dr. Pankaj Raizada

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### Deadline for manuscript submissions

closed (28 February 2023)



## Catalysts

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#### Editor-in-Chief

Prof. Dr. Keith Hohn  
Carl R. Ice College of Engineering, Kansas State University, Manhattan,  
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