

## Special Issue

# Innovative and Practical Trends in Photocatalytic Degradation of Environmental Pollutants

### Message from the Guest Editors

Semiconducting metal oxide nanostructures play an important role in developing smart materials that are effective for sensing and destroying harmful chemical contaminants from our environment. Photocatalysis is widely used to degrade and mineralize hazardous organic compounds, reduce toxic metal ions to their non-toxic states, deactivate and destroy water borne microorganisms, decompose air pollutants including volatile organic compounds, NO<sub>x</sub>, CO and NH<sub>3</sub>, remove pathogens from air, and degrade waste plastics. This Special Issue is a collection of original research papers, reviews, and commentaries that address the development and application of innovative photocatalytic systems for environmental remediation. Submissions are welcome in, but are not limited to, the following areas: - Development of novel semiconductors and/or composites for environmental remediation; - Photocatalytic degradation of emerging contaminants in wastewater; - Use of photocatalysis for indoor and urban air quality intervention; - Scale-up approaches for photocatalytic degradation systems; - Economic and life cycle assessment of for environmental remediation by photocatalysis.

### Guest Editors

Dr. Mohamed Ateia

Prof. Dr. Matthew Johnson

Dr. Božena Czech

### Deadline for manuscript submissions

closed (31 October 2021)



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*Catalysts*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[catalysts@mdpi.com](mailto:catalysts@mdpi.com)

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Prof. Dr. Keith Hohn

Carl R. Ice College of Engineering, Kansas State University, Manhattan,  
KS, USA

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