catalysts

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Application of Photocatalysts in Environmental Chemistry

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Message from the Guest Editors

Photocatalysts are extensively investigated for their promising properties in the generation of hydrogen by the water-splitting process, air purification, production of CH_4 by CO_2 reduction, inactivation of microorganisms and disinfection of water, degradation of various classes of organic and inorganic contaminants such as pesticides, dyes, drugs, etc. The structural features of photocatalysts can be further tuned to improve their stability, light absorption efficiency and photocatalytic performance. Moreover, the synthesis of innovative composite nanocatalysts makes these materials easily recoverable and recyclable for subsequent runs.

Due to the interesting potentiality of photocatalysts, original studies of new and efficient catalytic devices for environmental applications are highly desirable.