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Photocatalytical Behavior of Metal NPs over Wastewater Treatment

Guest Editors:

Dr. Awais Ahmad

Department of Chemistry,
University of Lahore, Lahore,
Pakistan

Prof. Dr. Shahid Hussain

School of Materials Science and
Engineering, Jiangsu University,
Zhenjiang, China

Prof. Dr. Muhammad Bilal

School of Life Science and Food
Engineering, Huaiyin Institute of
Technology, Huaian 223003,
China

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Message from the Guest Editors

Dear Colleagues,

Process of photocatalysis involves green chemistry, because all energy obtained from photons are utilized into chemical energy. In last few decades, an increase in use of photoreactors was emerged. In present era several modifications were brought for designing a diversified modification in those materials from which semiconductors could be formed, with efficient activity to be employed for photocatalysis of heterogenous materials. Based on modification, band gap, composition and charge transfer process semiconductors to be used in photocatalysis are categorized into four types. These include Z scheme, solid solutions, intrinsic semiconductors and electrical junction created between variant materials termed as heterojunction type II. Photocatalysis involves phenomena of oxidation. In this process, semiconductors capable of photocatalytic activity deteriorate contaminants that are organic in nature. These photocatalysts include zinc oxide and titanium oxide etc. Along with semiconductors, the agent [...]

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Special Issue



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Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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