Special Issue

Plasmon-Assisted Photocatalysis in Hybrid Nanoparticles

Message from the Guest Editor

Surface plasmon resonance strongly enhances local electromagnetic fields and various light–matter interactions, which attracts intense attention in photocatalysis. Plasmonic hybrids (e.g., metal and alloyed nanoparticles, metal-semiconductor hetero-nanocrystals) have exhibited strong potential in photocatalytic applications due to various plasmonic enhancement effects, such as plasmon-enhanced absorption and scattering, plasmon resonance energy transfer, hot-electron generation, and the photothermal effect. The aim of this Special Issue is to cover promising recent research in photocatalysis using plasmonic hybrids. Contributions on photocatalyst preparation, reaction mechanism, theoretical modeling and applications are all welcome.

Guest Editor

Dr. Li Zhou

School of Physics and Technology, Wuhan University, Wuhan 430072, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

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