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Recent Advances in Water Oxidation Catalysis

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The development of renewable energy sources is among the most important challenges of the 21st century. Water splitting, i.e., the conversion of water into molecular oxygen and hydrogen, holds great promise for solving some ubiquitous issues related to the storage and transport of energy. Until now, the key-bottleneck of this process was the water oxidation reaction, which generates molecular oxygen, as well as protons and reduction equivalents. Designing catalysts for this reaction is currently a topic of outstanding interest. Numerous catalysts have been presented for both photo- and electro-catalytic water oxidation. Some of those catalysts were inspired by nature's oxygen evolving complex in photosystem II. Other directions are concerned with the development of macromolecular and nano-materials, up to thin films and solid materials tuning, which opens an exciting interdisciplinary field for homogeneous and heterogeneous catalysis. This Special Issue aims at recent advances in water oxidation catalysis and invites contributions in order to highlight the variety and importance of this vibrant research field.

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Message from the Editor-in-Chief

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