Special Issue

Advances in Photocatalytic/Electrocatalytic Conversion of Carbon Neutrality

Message from the Guest Editors

In moving towards carbon neutrality, a sustainable energy conversion and storage system is required in addition to the exploration of renewable energy sources for large-scale utilization. Photo/electrocatalysis techniques powered by renewable energy, including water photo/electrolysis for green hydrogen production, fuel cells that have efficient hydrogen utility with zero carbon emissions, photo/electrocatalytic CO2 conversion into value-added products, and nitrogen or nitrate reduction to ammonia, have received ever-increasing interest due to their potential to play important roles in mitigating the energy crisis and environmental pollution. For energy conversion and storage systems, the catalysts where the conversion takes place play an important role in reducing the reaction potential and improving the reaction efficiency. Hence, developing low-cost and highly efficient catalysts is critical. This symposium will focus on this topic and cover the recent progress in the above-mentioned photo/electrocatalysis fields in both the scientific and industrial communities.

Guest Editors

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Deadline for manuscript submissions

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