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# Advances in Nanostructured Catalysts for Energy and Environmental Applications

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#### Message from the Guest Editors

The issue of energy shortage and environmental crisis is becoming increasingly serious due to the economy's and society's rapid expansion. Developing green and renewable technologies for environmental remediation and energy production is critical to solving these problems. Nanostructured catalysts have attracted worldwide attention for water splitting, CO<sub>2</sub> reduction, N<sub>2</sub> reduction, and degradation of organic pollutants via photochemical, electrochemical, and photoelectrochemical strategies. The catalytic reactivity of catalysts is critically affected by their electronic and surface atomic structures, which depend strongly on their nanostructure. Therefore, the regulation of the structure of the catalysts is one of the best ways to modulate the catalytic properties.

This Special Issue aims to promote advances in synthetic strategies of nanostructured catalysts, crystal facet engineering, heterostructure, band gap engineering, morphology tailoring, plasmonic coupling, co-catalyst loading, and other aspects for energy and environmental applications. Original research articles and reviews are welcome.

**Special**sue



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### Message from the Editor-in-Chief

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