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Special Issue Reprint

Environmentally Friendly Catalysis for Green Future

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Rapid industrialization over recent decades has triggered severe environmental crises, including air and water pollution, the greenhouse effect, and climate change. Environmentally friendly catalysis offers a vital pathway to address these challenges. Catalytic conversion of gaseous pollutants—such as CO₂, VOCs, NO_x, and SO_x—through thermal catalysis, electrocatalysis, and photocatalysis provides effective strategies for mitigating climate change. Meanwhile, catalytic degradation of organic pollutants and reduction of heavy metal ions in water represent cutting-edge approaches to wastewater treatment. This Reprint "Environmentally Friendly Catalysis for Green Future" showcases the latest advances in catalysis that drive environmental sustainability and energy conversion, including the design and development of novel green catalysts; applications of environmentally friendly catalysis across diverse fields; advanced pollution reduction technologies; and thermal, photocatalytic, and electrocatalytic processes for environmental governance and energy conversion.



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