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Advanced Catalytic Materials for Sustainable Energy

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Message from the Guest Editor

In the present Special Issue entitled "Advanced Catalytic Materials for Sustainable Energy" in the journal *Catalysts*, we welcome submissions on cutting-edge developments in catalytic materials that play a pivotal role in advancing sustainable energy technologies. This collection is intended to gather articles on the controlled synthesis of single-atom and nanoparticle catalysts, in situ and operando characterization of these catalysts, measurement and modelling of catalytic kinetics, and correlation of atomic-/molecular-level structure with catalytic performance for the production of sustainable fuels and chemicals. In particular, we welcome submissions on the following topics: hydrogen production, CO₂ conversion to fuels, biofuel upgrading, sustainable aviation fuels, etc.



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Special Issue