



Recent Advances on Catalytic Surfaces and Interfaces

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Message from the Guest Editors

Dear Colleagues,

The rational design and development of cost-efficient and highly active catalytic materials is currently one of the main research pillars in the field of heterogeneous catalysis. To this end, surface and interface engineering are among the most efficient strategies toward the fabrication of innovative and advanced catalytic materials. A prerequisite for this is a fundamental understanding of the structure–performance relationships at the (near-) atomic scale; these, however, remain a formidable challenge due to the complexity of heterogeneous catalytic processes. Recent progresses in nanosynthesis with uniform and well-defined structures, fine-tuning engineering strategies (size/shape control), in situ characterization techniques, and theoretical calculations have offered unique opportunities towards the fundamental understanding of surface and interface phenomena, which in turn could pave the way for the rational design of catalytic systems.

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