Special Issue

Noble-Metal Nanocatalysis: State of the Art and Future Challenges

Message from the Guest Editors

Noble metal nanocatalysts have been widely used in the field of catalysis, and their catalytic performance depends on their physical/chemical parameters. Their controlled synthesis strategies and performance relationships have attracted attention, while the internal mechanism of their catalytic performance and stability is also of great significance for the design of nanocatalysts. Therefore, it is necessary to combine the latest experimental and simulation methods, starting from the microscopic mechanism of nanocatalysts, and then controlling the influencing factors such as surface morphology, composition and size in experiments, to provide the latest solutions and specific examples for performance optimization. This Special Issue "Noble-Metal Nanocatalysis: State of the Art and Future Challenges" focuses on the design, synthesis, characterization, application and mechanistic analysis of noble-metal nanocatalysts. All research (experimental and theoretical) within the scope of this Special Issue, including original research and review articles, short communications and opinion pieces, are invited for submission.

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