Special Issue

Exhaust Gas Control Catalysis

Message from the Guest Editors

Environmental protection is one of the major concerns worldwide in human society because anthropogenic emissions of pollutants from combustion engines pose a serious threat to human health and ecological balance. In recent decades, technological advances in heterogeneous catalysis have contributed to the purification of exhaust gases. This Special Issue welcomes review papers and original research papers focused on the synthetic method and spectroscopic characterization of catalytic materials and their application in NOx abatement. A particular focus is given to recent advances in bimetallic catalysts, the promotion effect of additives, and fine dispersion of active metal nanoparticles on porous materials to reduce the amount of noble metal usage. State-of-the-art spectroscopic techniques which allow in situ/operando monitoring of catalytic solid–gas interfaces and bulk materials under reaction conditions are also one of the central topics in this Special Issue.

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