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Catalysts for Mobile Source: Low-Carbon and Pollution Emission Control

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Message from the Guest Editors

This Special Issue collects the research results of catalytic materials currently used to solve the problems of carbon dioxide and pollutant emissions from mobile sources, and explores the key research directions in the next stage, being committed to promoting the development of catalysis science in the field. It involves various aspects of catalyst design, preparation, characterization, reaction mechanisms, and deactivation mechanisms, including, but not limited to, catalysts used to address the main pollutants such as HC, CO, NO_x, and PM, catalysts used to address unconventional pollutants such as CH_4, N_2O, NH_3 and NMHC, electrocatalysts and plasma-assisted catalysts, low-temperature adsorption materials, etc.

The scope of this Special Issue also includes modeling and simulation based on the catalysts, collaborative control technology for mobile source pollution and carbon reduction, and ultra-low emission after-treatment technology.