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Selective Catalytic Reduction: From Basic Science to deNOx Applications II

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Message from the Guest Editors

Dear Colleagues,

Selective catalytic reduction (SCR) of NOx with ammonia is widely considered to be a leading method for NOx abatement. Although it has been successfully implemented for several decades, it is still very much the focus of ongoing catalytic research, which aims to expand the applicability and improve the efficiency of the SCR process. Through designing novel catalysts and formulating new insights concerning relations between catalysts' structure, nature of active sites, and activity in realistic conditions (i.e., different operating temperatures, presence of poisoning agents, etc.), the potentials of SCR are constantly being developed. This Special Issue is the second volume dedicated to novel trends in selective catalytic reduction, with a focus on, but not limited to, the following:

- Fundamental research on the reaction mechanisms of the SCR process;
- Novel catalysts for the SCR of NOx;
- Poisoning of SCR catalysts and anti-poisoning design;
- New deNOx approaches for low temperature applications;
- Expanding SCR for the simultaneous abatement of NOx and other pollutants;
- Computational research for SCR catalyst design.

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