



Selective Catalytic Reduction: From Basic Science to deNO_x Applications

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Message from the Guest Editors

The development and commercialization of catalytic processes for remediating toxic emissions from stationary sources and from vehicles has been a truly remarkable achievement for the environmental catalysis community. Selective catalytic reduction (SCR) of NO_x with ammonia is among the most important and successful such techniques that we have witnessed, evolving from vanadia- to exchanged zeolite-based over the past 50 years. This Special Issue welcomes both review and original research articles on all aspects of SCR catalysis, including but not limited to the following topics:

- Recent advances in the synthesis and optimization of oxide- and zeolite-based SCR catalytic materials;
- The latest studies on the chemical mechanisms of SCR;
- Studies on deactivation and regeneration of SCR catalysts;
- Advances in in situ and operando methods for studying SCR catalyst materials and processes;
- Recent advances in computational research for SCR research.

