OAK RIDGE NATIONAL LABORATORY
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Hydrothermally Stable, Low-Temperature NOx Reduction NH3-SCR Catalyst

Disclosure Number

201102721

Technology Summary

The present invention describes a new class of heterobimetallic chabazites that exhibit excellent NOX reduction under NH3-SCR conditions in 150-650 °C range. The new compositions retain their activity even after hydrothermal aging. In contrast, the conventional, commercially available chabazite SCR catalyst, Cu-SSZ-13, exhibits high activity only in 200-550 °C range. This invention disclosure is related to the invention disclosed in ID-2396, entitled "Zeolite-Based SCR Catalysts and Their Use in Diesel Engine Emission Treatment", for which UT-Battelle has filed a patent applicaiton.

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