## 材料工程专栏

Application of the Solvothermal Process in the Synthesis of High-performance Ag/g-Al2O3 Catalysts

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收稿日期 修回日期 网络版发布日期 接受日期

摘要 Ag/g-Al2O3 is a kind of promising catalyst with the relatively lower cost compared with those using noble metals, good resistance against catalytic poisoning and excellent behaviour for NOx removal. In the present study, Ag/g-Al2O3 catalysts were synthesized by the solvothermal process and characterized by XRD, TG-DTA, TEM, UV-Vis and FT-IR. It was found that high-performance Ag/g-Al2O3 catalysts could be synthesized by properly selecting starting materials, controlling the composition of solvent and other reaction conditions. The microstructure evolution of the catalysts was also discussed.

关键词 Ag/g-Al2O3,solvothermal process,catalyst,microstructure

分类号 工艺

DOI:

对应的英文版文章: 206526

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