

Ti接枝KIT-1对苯羟化反应的化学亲和选择性及化学稳定性研究

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摘要 以合成后表面接枝的方式制备了长程结构和孔结构均较好的Ti接枝KIT-1催化剂,将其用于苯羟化反应,研究了Ti接枝KIT-1催化剂的苯羟化学性能和稳定性, 结果发现: Ti接枝KIT-1催化剂对苯羟化过程表现出化学亲和选择性, 即使在过氧化氢过量的条件下, 也可避免深度氧化的进行; Ti接枝KIT-1催化剂在苯羟化过程中表现出较好的结构稳定性。

关键词 [钛](#) [接枝共聚](#) [催化剂](#) [稳定性](#) [苯](#) [羟化](#)

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Catalytic Performance and Stability of Ti-grafted KIT-1 in the Hydroxylation of Benzene

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Abstract Ti containing KIT-1 materials with well ordered long-range and pore structures were prepared by grafting Ti onto the surface of KIT-1. Ti-grafted KIT-1 materials were used as the catalyst for the hydroxylation of benzene. catalytic performance and stability of the catalyst were investigated. The results show that Ti-grafted KIT-1 with hydrophobic surface is much more reactive in the hydroxylation of benzene than that of phenol. The long-range and pore structures of KIT-1 are also stable enough in the hydroxylation.

Key words [TITANIUM](#) [GRAFT COPOLYMERIZATION](#) [CATALYST](#) [STABILITY](#) [BENZENE](#) [HYDROXYLATION](#)

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