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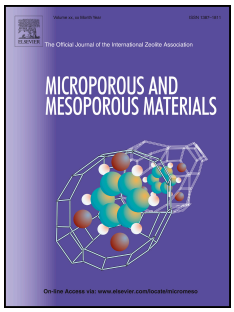

Catalytic performance of surface-silylated and phenyl-bridged Ti-containing mesoporous silica for epoxidation of propylene

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PII: S1387-1811(17)30763-1

DOI: 10.1016/j.micromeso.2017.11.042

Reference: MICMAT 8677

To appear in: *Microporous and Mesoporous Materials*

Received Date: 30 September 2017

Revised Date: 18 November 2017

Accepted Date: 27 November 2017

Please cite this article as: X. Zhang, Y. Huang, Y. Guo, X. Yuan, F. Jiao, Catalytic performance of surface-silylated and phenyl-bridged Ti-containing mesoporous silica for epoxidation of propylene, *Microporous and Mesoporous Materials* (2017), doi: 10.1016/j.micromeso.2017.11.042.

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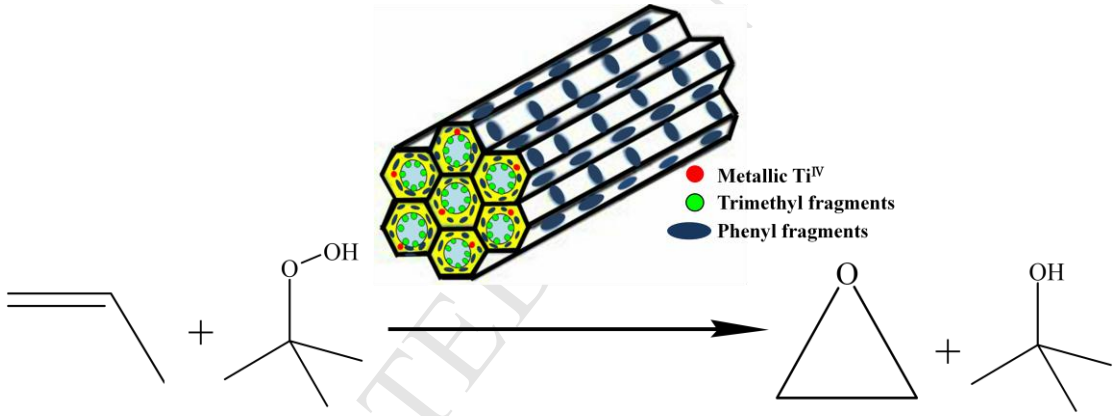
Catalytic performance of surface-silylated and phenyl-bridged Ti-containing mesoporous silica for epoxidation of propylene

Xiaoyu Zhang, Yibin Huang, Yiman Guo, Xia Yuan*

College of Chemical Engineering, Xiangtan University, Xiangtan 411105, China

A surface-silylated and phenyl-bridged Ti-containing mesoporous silica material was constructed by incorporating titanium component and phenyl groups in situ in the crystallization process before surface silanization. The material was characterized by various means to demonstrate its properties of structure and environment of active site. The catalytic performance of prepared material was evaluated in propylene epoxidation and obtained the optimized reaction conditions.



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