中国化学工程学报 2005 13 (5): 705-708 ISSN: 1004-616x CN: 44-1063/R

添加Cs进行优化的Mo-Bi-Co-Fe-Ce-O催化剂上异丁烯选择性氧化

等期1.5至于作化归Mの-5H-CO-Fe-C-C-U推化剂上升 ] 海送学任氧化
王忠 "李梅宗"。 该规范"。 张明文章,张成"

\*Rescarch Laboratory for Green Chemistry and Technology, Institute of Process Engineering, Chinese Academy of Sciences, Beijing 100080, China

\*Rescarch Laboratory for Green Chemistry and Technology, Institute of Process Engineering, Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, China

\*Graduates School of the Chinese Academy of Sciences, Beijing 100049, Chin

 关键词
 Mo-Bi-Co-Fe-Ce-O催化剂
 异丁烯
 选择性氧化铯
 催化动力学

 分类号

## Selective Oxidation of Isobutylene over Cs-promoted Mo-Bi-Co-Fe-Ce-O Catalyst

 $WANGLei^a, LIZengxi^{a,b}, ZHANGSuojiang^a, ZHANGXiangping^a, ZHAOWei^a$ 

<sup>a</sup> Research Laboratory for Green Chemistry and Technology, Institute of Process Engineering, Chinese Academy of Sciences, Beijing 100080, China b Graduate School of the Chinese Academy of Sciences, Beijing 100049, China

Abstract
C-p-romoted Mo-Bi-Co-Fp-Co-O catalyst for the selective oxidation of isobarylene to methacrache had been studied in a fixed bed microreactor. The electively to methacrache was significantly improved by the addition of Cr., which could probably enhance the oblighing-material ability and weaken the oxygenation ability of the catalyst based on temperature programmed reduction. (TFR) analysis investigation. The kinetic studies indicated that the oxidation of isobarylene to methacrache infollowed the first-order kinetic behavior.

Key words isobutylene selective oxidation complex catalyst kinetics

通讯作者 王蕾 sjzhang@home.ipe.ac.cn

扩展功能 本文信息 本文化量 外面的相互相信 中国(中国) 中国(中国)