

Highly effective transformation of methyl phenyl carbonate to diphenyl carbonate with recyclable Pb nanocatalyst

Songlin Wang ^{a,b}, Hongying Niu ^a, Jianji Wang ^b, Tong Chen ^{c,*}, Gongying Wang ^c,
Jiamin Zhang ^a

^a School of Chemistry and Chemical Engineering, Henan Institute of Science and Technology, Xinxiang 453003, China

^b Postdoctoral Programs, Key Laboratory of Green Chemical Media and Reactions, Ministry of Education, School of Chemistry and Chemical Engineering, Henan Normal University, Xinxiang 453007, China

^c Chengdu Institute of Organic Chemistry, Chinese Academy of Sciences, Chengdu 610041, China

Corresponding author. E-mail: chentongw@sina.com.cn (T. Chen)

Table S1 The content of Pb in the fresh and used catalysts.

Catalyst	PbO content (wt. %)	
	Fresh	Used ^a
PbO/MgO	9.86	9.61
PbO/ZrO ₂	9.49	9.40
PbO/SiO ₂	9.93	8.84
PbO/Al ₂ O ₃	9.88	8.65
PbO/TiO ₂	9.63	8.40

^a After the third reused catalyst.

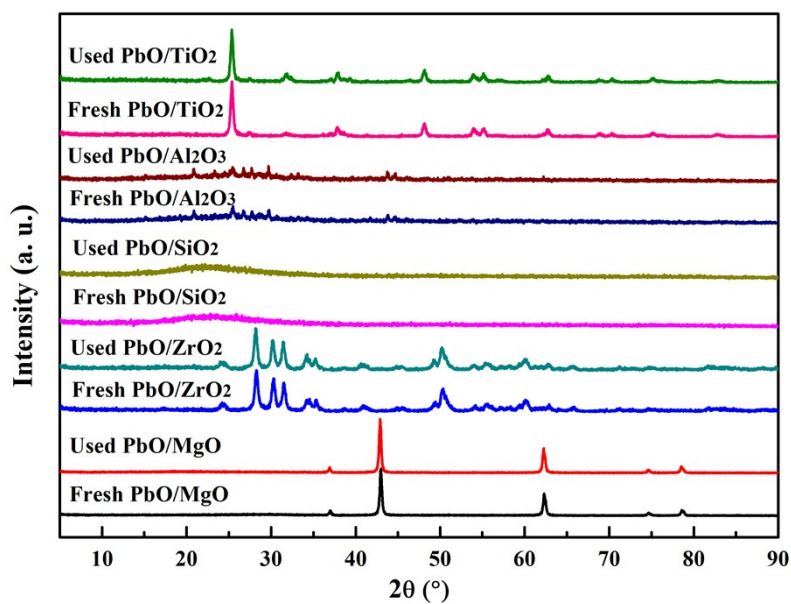


Fig. S1. XRD patterns of fresh and recovered catalysts after the third use.