

Supplementary Information

Amphiphilic Phosphotungstate-paired ionic copolymer as highly efficient catalyst for triphase epoxidation of alkenes with H₂O₂

Yan Leng,^{*a} Jianghao Wu,^a Pingping Jiang,^a and Jun Wang^b

^a The Key Laboratory of Food Colloids and Biotechnology, Ministry of Education, School of Chemical and Material Engineering, Jiangnan University, Wuxi 214122, China. Fax: +86-510-85917763; Tel: +86-510-85917090; E-mail: lengyan1114@126.com

^b State Key Laboratory of Materials-Oriented Chemical Engineering, College of Chemistry and Chemical Engineering, Nanjing University of Technology, Nanjing 210009, China.

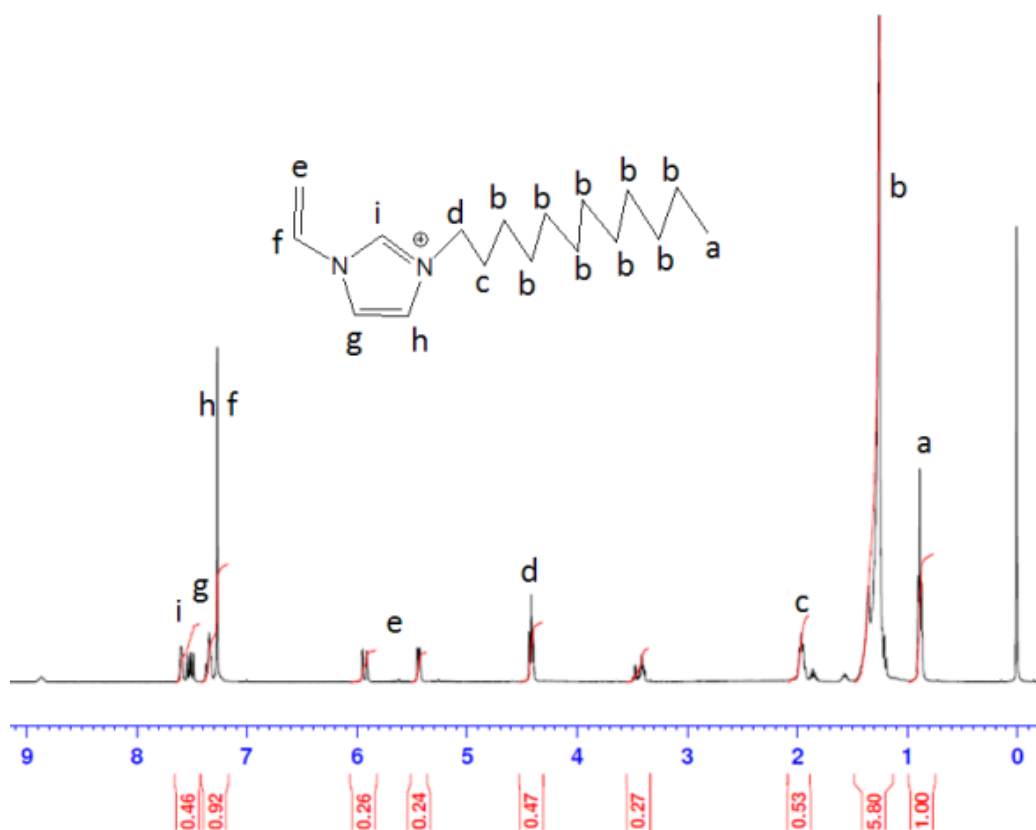
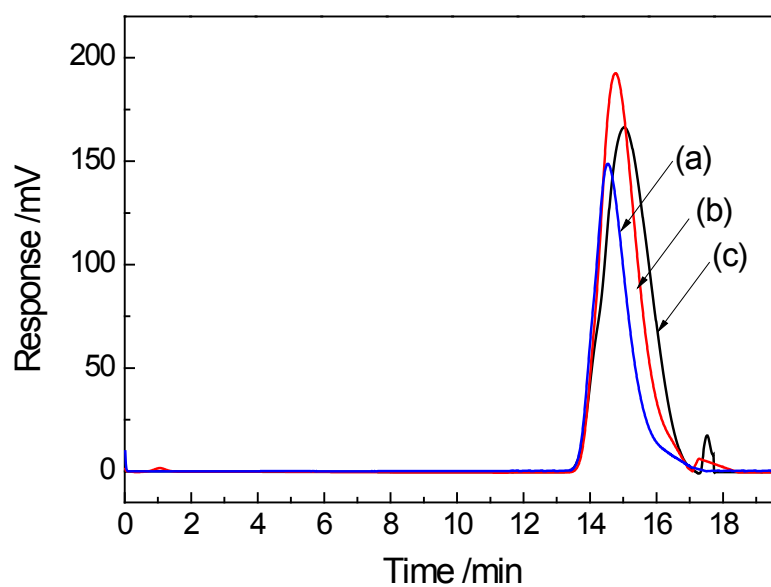
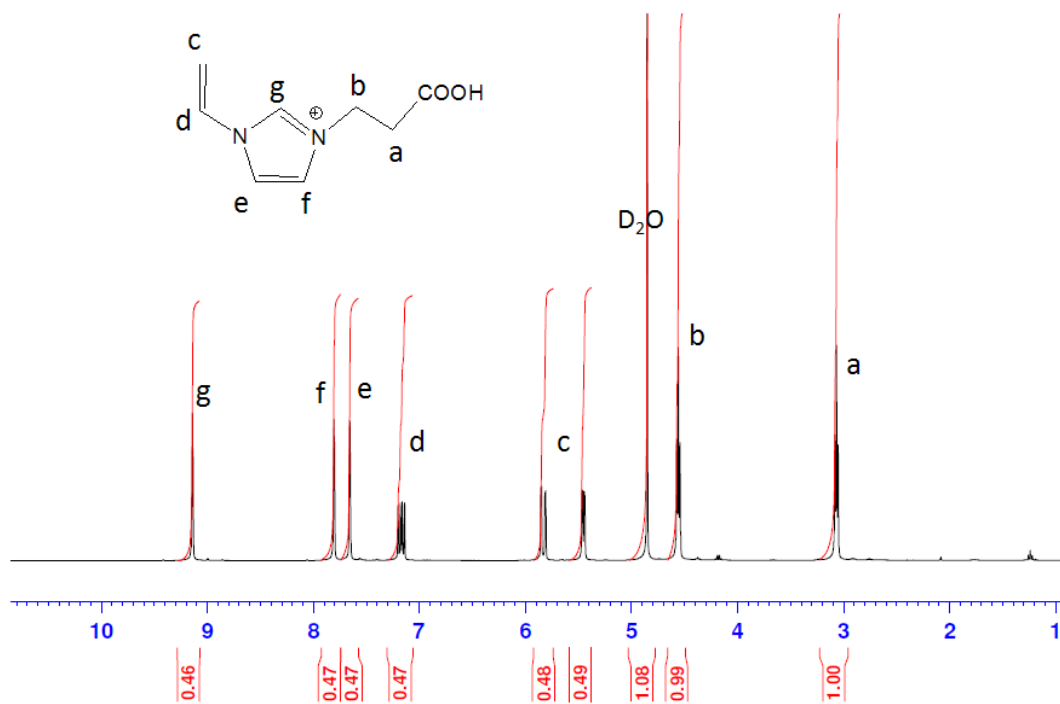
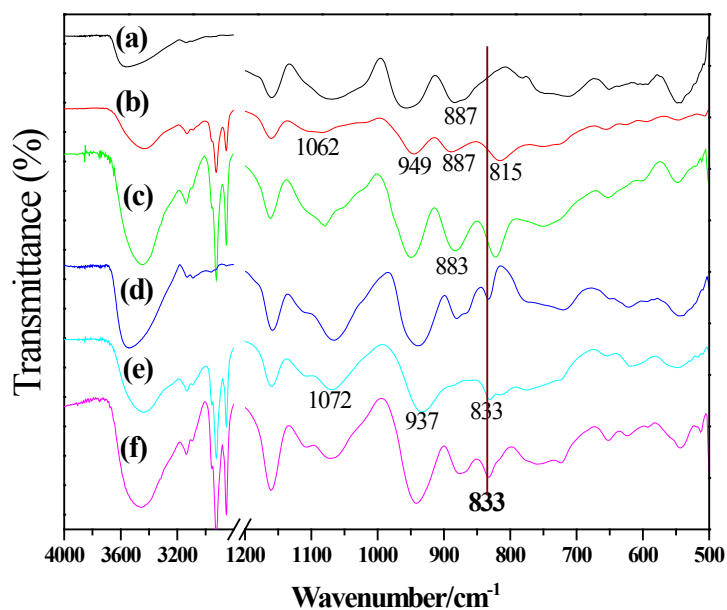


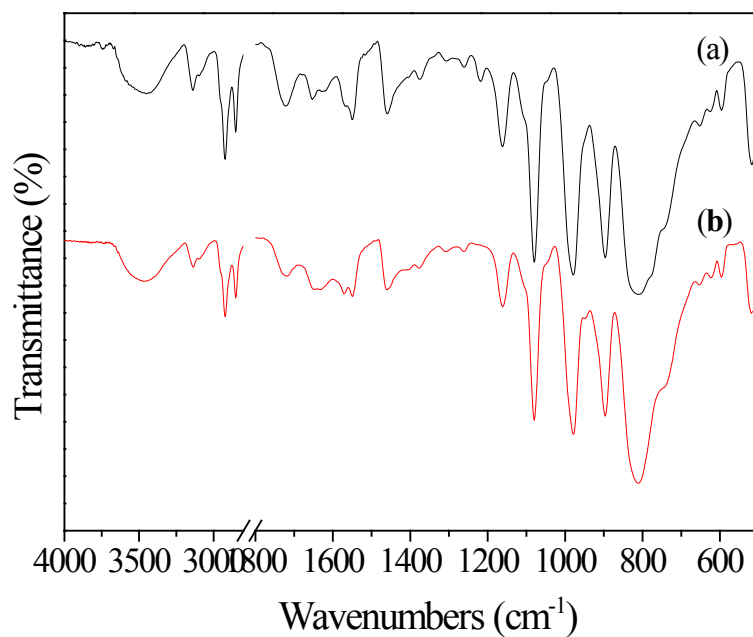
Figure S1. ¹H NMR of DIM.



FigureS3. Differential refractive index (dRI) GPC trace of polymers (a) DIM-CIM, (b) CIM, and (c) DIM in DFM.



FigureS4. FT-IR spectra of (a) CIM-PW, (b) DIM-PW, (c) DIM-CIM-PW, (d) H₂O₂-treated CIM-PW, (e) H₂O₂-treated DIM-PW, (f) H₂O₂-treated DIM-CIM-PW.



FigureS5. FT-IR spectra of (a) DIM-CIM-PW₁₂O₄₀ and (b) H₂O₂-treated DIM-CIM-PW₁₂O₄₀.