

Electronic Supplementary Material (ESI) for Catalysis Science & Technology.
This journal is © The Royal Society of Chemistry 2016

Supporting Information

High yield production of HMF from carbohydrate over silica- alumina composite catalyst

Xiangcheng Li,^a Qineng Xia,^a Van Chuc Nguyen,^b Kaihao Peng,^a Xiaohui Liu,^a Nadine Essayem^b and Yanqin Wang^{*a}

^a Shanghai Key Laboratory of Functional Materials Chemistry, Research Institute of Catalysis, School of Chemistry and Molecular Engineering, East China University of Science and Technology, Shanghai, 200237, China.

Email: wangyanqin@ecust.edu.cn; Fax/Tel: 0086-21-64253824

^b Institute of research on Catalysis & Environmen of Lyon, IRCELYON - UMR5256, 2 Avenue Albert Einstein.F-69626 Villeurbanne Cedex, France.

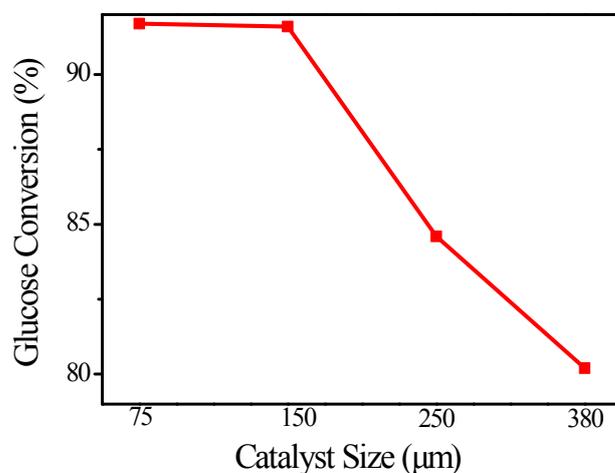


Fig S1. Effect of catalyst size on conversion of glucose.

(Reaction conditions: catalyst (0.2 g), water saturated with NaCl (2 ml), THF (6 ml), 160 °C, 1.5 h.)

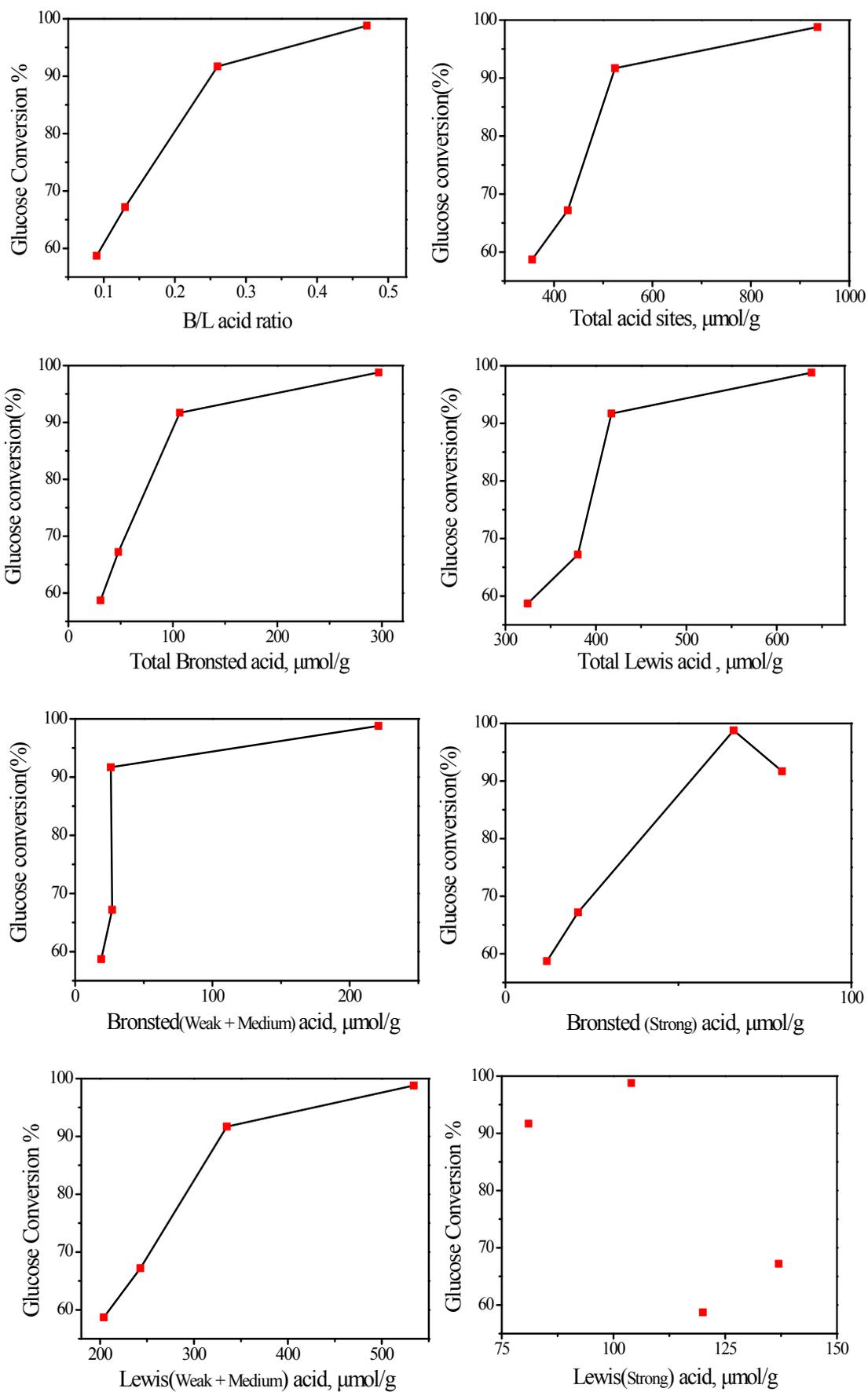


Fig S2. Effect of the acid sites on the conversion of glucose under the same reaction condition.

(Reaction condition: glucose (0.2g), catalyst (0.2 g), water saturated with NaCl (2 ml), THF (6 ml), 160 °C, 1.5 h.)