Recent Publications

2019 Year

Qinmin**g Wu,** Xiangju Meng, Xionghou Gao,  Feng-Shou Xiao Solvent-Free Synthesis of Zeolites: Mechanism and Utility*Acc. Chem. Res.***2018**, *51*, 1396-1403.

Jian Zhang, Liang Wang, Bingsen Zhang, Haishuang Zhao, Ute  Kolb, Yihan Zhu, Lingmei Liu, Yu Han, Guoxiong Wang, Chengtao Wang, Dang Sheng  Su, Bruce C. Gates & Feng-Shou Xiao Sinter-resistant metal nanoparticle  catalysts achieved by immobilization within zeolite crystals via seed-directed  growth *Nature Catal.***2018**, *1*, 540-546.

Liang Wang, Erjia Guan, Jian Zhang, Junhao Yang, Yihan Zhu,  Yu Han, Ming Yang, Cheng Cen, Gang Fu, Bruce C. Gates, Feng-Shou Xiao Single-site  catalyst promoters accelerate metalcatalyzed nitroarene hydrogenation *Nature Commun.***2018**, *9*, 1362.

Qi Sun, Sai Wang, Briana Aguila, Xiangju Meng, Shengqian Ma,  Feng-Shou Xiao Creating solvation environments in heterogeneous catalysts for  efficient biomass conversion *Nature  Commun.***2018**, *9*, 3236.

Liang Wang, Shaodan Xu, Shenxian He, Feng-Shou Xiao Rational  construction of metal nanoparticles fixed in zeolite crystals as highly  efficient heterogeneous catalysts *Nano  Today***2018**, *20*, 74-83.

Lingxiang Wang, Liang Wang, Xiaolong Liu, Hai Wang, Wei  Zhang, Qi Yang, Jingyuan Ma, Xue Dong, Seung Jo Yoo, Jin-Gyu Kim, Xiangju Meng,  and Feng-Shou Xiao Selective hydrogenation of CO2 into ethanol over  cobalt catalysts *Angew. Chem. Int. Ed.***2018**, *57*, 6104-6108.

Hai Wang, Liang Wang, Shenxian He, Feng-Shou Xiao Enhancement  of Catalytic Properties by Adjusting Molecular Diffusion in Nanoporous  Catalysts *Adv. Catal.***2018**, *62*, 1-47.

Zhu Jin, Liang Wang, Qingxun Hu, Ling Zhang, Shaodan Xu, Xue  Dong, Runyuan Ma, Xiangju Meng, Feng-Shou Xiao, Hydrophobic Zeolite Containing  Titania Particles as Wettability-Selective Catalyst for Formaldehyde Removal *ACS Catal***2018**, *8*, 5250-5254.

Chengtao Wang, Zhiqiang Liu, Liang Wang,  Xue Dong, Jian Zhang, Guoxiong Wang, Shichao Han, Xiangju Meng, Anmin Zheng,  and Feng-Shou Xiao Importance of Zeolite Wettability for Selective  Hydrogenation of Furfural over Pd@Zeolite Catalysts *ACS Catal***2018**, *8*, 474-481.

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