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Prof. Rui Xiao is the winner of the National Science Fund for Distinguished Young Scholars and is currently employed by the ministry of education as a Chang Jiang Scholars Distinguished Professor in 2012. He was honored with Second Award of Science and Technology Progress of China, First Award of Natural Science of the Ministry of Education, First Award of Science and Technology Progress of Jiangsu Province, etc. He enjoyed the special allowance of the State Council of China. He serves as one of the associate Editor of Fuel Processing Technology. His research expertise is in the clean utilization of coal and biomass, CO<sub>2</sub> capture and bio-fuels. He has published more than 150 peer-reviewed papers in referred journals (more than 3000 citations with h-index 31), including Science, Energy Environ. Sci., Combust. Flame, and applied for 40 patents (Invention), of which 30 were granted.

### **Recent publications:**

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Evolution of coke in the catalytic conversion of biomass-derivates by combined in-situ DRIFTS and ex-situ approach: Effect of functional structure S Shao, H Zhang, R Xiao, X Li, Y Cai Fuel Processing Technology 178, 88-97		2018
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Redox reaction induced morphology and microstructure evolution of iron oxide in chemical looping process Z Ma, R Xiao, L Chen Energy Conversion and Management 168, 288-295	1	2018
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A comparative study on the Mn/TiO <sub>2</sub> -M (M= Sn, Zr or Al) O <sub>x</sub> catalysts for NH <sub>3</sub> -SCR reaction at low temperature Y Zhang, T Huang, R Xiao, H Xu, K Shen, C Zhou Environmental technology 39 (10), 1284-1294	2	2018
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Chemical looping pyrolysis-gasification of biomass for high H <sub>2</sub> /CO syngas production J Zeng, R Xiao, H Zhang, Y Wang, D Zeng, Z Ma Fuel Processing Technology 168, 116-122	2	2017
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