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Professional field: Chemical Engineering and Technology
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Profile

Education

1998: PhD, Kyushu University, Japan.

1988: ME, Chinese Academy of Sciences.

1985: BS, Fudan University.

Academic Experience

2003-present: ECUST, Professor, Former Dean.

1998-2003: Professor, Institute of Coal Chemistry Chinese Academy of Sciences.

1993-1998: Associate Professor, Institute of Coal Chemistry Chinese Academy of Sciences.

Research Field

New Carbon Materials

Research results and selected published papers

1. Su HP, Barragan A A, Geng L, et al. Colloidal Synthesis of Silicon–Carbon Composite Material for Lithium‐Ion Batteries[J]. Angewandte Chemie, 2017, 129(36): 10920-10925.

2. Tao YQ, Wei YJ, Liu Y, et al. Kinetically-enhanced polysulfide redox reactions by Nb2O5 nanocrystals for high-rate lithium–sulfur battery. Energy & Environmental Science, 2016, 9(10): 3230-3239.

3. Su HP, Fu C, Zhao Y, et al. Polycation binders: an effective approach toward lithium polysulfide sequestration in Li–S batteries[J]. ACS Energy Letters, 2017, 2(11): 2591-2597.

4. Zhou JG, Sun ZL, Chen MQ, et al. Macroscopic and Mechanically Robust Hollow Carbon Spheres with Superior Oil Adsorption and Light‐to‐Heat Evaporation Properties. Advanced Functional Materials, 2016,26(29): 5368–5375.

5. Wei Y, Kong Z, Pan Y, et al. Sulfur film sandwiched between few-layered MoS 2 electrocatalysts and conductive reduced graphene oxide as a robust cathode for advanced lithium–sulfur batteries[J]. Journal of Materials Chemistry A, 2018, 6(14): 5899-5909.

6. Zhang Z, Jiang W, Long D, et al. A General Silica-Templating Synthesis of Alkaline Mesoporous Carbon Catalysts for Highly Efficient H2S Oxidation at Room Temperature[J]. ACS applied materials & interfaces, 2017, 9(3): 2477-2484.

7. Ma C, Chen X, Long D, et al. High-surface-area and high-nitrogen-content carbon microspheres prepared by a pre-oxidation and mild KOH activation for superior supercapacitor[J]. Carbon, 2017, 118: 699-708.

8. Jia X, Dai B, Zhu Z, et al. Strong and machinable carbon aerogel monoliths with low thermal conductivity prepared via ambient pressure drying[J]. Carbon, 2016, 108: 551-560.

9. Chong YP, Liu K, Liu Y, et al. Highly Efficient Removal of Bulky Tannic Acid by Millimeter‐sized Nitrogen-doped Mesoporous Carbon Beads. AIChE Journal, 2017, 63(7): 3016-3025.

10. Wang J, Yao L, Ma C, et al. Organic amine-mediated synthesis of polymer and carbon microspheres: mechanism insight and energy-related applications[J]. ACS applied materials & interfaces, 2016, 8(7): 4851-4861.