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Profile

Education

2002: PhD, Organic Chemical Engineering, Kyushu University, Japan.

1993: MS, Organic Chemical Engineering, Institute of Coal Chemistry, Chinese Academy of Sciences.

1990: BS, Fine Chemical Engineering, Nanjing University of Science and Technology, China.

Academic Experience

 $2006\hbox{-present: Professor, School of Chemical Engineering, ECUST, China.}\\$

2002-2006: Research Assistant, Institute of Materials Chemistry and Engineering, Kyushu University, Japan.

1999.04-10: Visiting Scholar, Institute of Materials Chemistry and Engineering, Kyushu University, Japan. 1993-1999: Research Assistant, Institute of Coal Chemistry, Chinese Academy of Sciences.

Research Field

- 1. Carbon material chemical industry
- 2. Energy storage materials
- 3. Pollution control

Research results and selected published papers

- •1. XN Jiang, XH Li, JTWang, DH Long, LC Ling, WM Qiao*, Three-dimensional Mn-Cu-Ce ternary mixed oxide networks prepared by polymer-assisted deposition for HCHO catalytic oxidation. Catalysis Science & Technology, 8, 2740-2749 (2018)
- •2. D Yin, J Li, JTWang, LC Ling, WM Qiao*, Low-temperature selective catalytic reduction of NOx with urea supported on carbon xerogels. Industrial & Engineering Chemistry Research, 57 (20), 6842-6852 (2018)
- •3. YJ Wei, ZK Kong, YK Pan, YQ Cao, DH Long, JT Wang, WM Qiao, LC Ling*, Sulfur film sandwiched between few-layered MoS2 electrocatalyst and conductive reduced graphene oxide as a robust cathode for advanced lithium-sulfur batteries. J. Mater. Chem. A, 2018,6, 5899-5909
- 4. XF Bing, X Jiang, M Tian, JT Wang, WM Qiao, LC Ling*, Metal chloride-assisted synthesis of hierarchical porous carbons for high rate performance supercapacitor. RSC Advances, 7(43), 26650-26657(2017)
- •5. M Wang, YX Li, M Pan, XF Jia, D Yin, DH Long*, JT Wang, WM Qiao, LC Ling*, Shape-customizable macro-/microporous carbon monoliths for structure-to-functionality CO2 adsorption and novel electrical regeneration. Advanced Materials Technology, 2(10), 1700088 (2017)
- •6. HP Su, YP Chong, DH Long, WM Qiao, LC Ling*, Nanocrystalline celluloses-assisted preparation of hierarchical carbon monoliths for hexavalent chromium removal, Journal of Colloid and Interface Science, 510,77-85 (2017)
- •7. M Tian, YQ Sun, CF Zhang, JT Wang, WM Qiao, LC Ling, DH Long Enabling high-rate electrochemical flow capacitors based on mesoporous carbon microspheres suspension electrodes. Journal of Power Sources, 364,183-190 (2017)
- •8. YP Chong, L Liu, Y Liu, JT Wang, WM Qiao, LC Ling, DH Long, ZS Bai, Highly efficient removal of bulky tannic acid by millimeter-sized nitrogen-doped mesoporous carbon beads. AICHE Journal, 63(7), 3016-3025 (2017)
- •9. C Ma, XY Chen, Dh Long*, JT Wang, WM Qiao, LC Ling*, High-surface-area and high-nitrogen-content carbon microspheres prepared by a pre-oxidation and mild KOH activation for superior supercapacitor. Carbon, 118,699-708 (2017)
- •10. ZX Zhang, WY Jiang, DH Long*, JT Wang, WM Qiao, LC Ling*, A general silica-templating synthesis of alkaline mesoporous carbon catalysts for highly efficient H2S oxidation at room temperature, ACS Applied Materials & Interfaces, 9 (3), 2477-2484 (2017)
- •11. XF Bing, YJ Wei, M Wang, S Xu, DH Long, JT Wang, WM Qiao, LC Ling*. Template-free synthesis of nitrogen-doped hierarchical porous carbons for CO2 adsorption and supercapacitor electrodes. Journal of Colloid and Interface Science, 488,207-217 (2017)
- •12. Y Ohata, DH Long, WM Qiao, LC Ling, K Nakabayashi, K Miyawaki, I Mochida, SH Yoon*, Dimensional control of tubular-type carbon nanofibers via pyrolytic carbon coating. Journal of
- Materials Science, 52(9), 5165-5178 (2017).

 •13. RY Wang, GM Lu*, WM Qiao*, JG Yu, Catalytic graphitization of coal-based carbon materials
- •14. J Li, D Yin, DH Long, JT Wang, LC Ling, WM Qiao*, Design of a dual-bed catalyst system with microporous carbons and urea-supported mesoporous carbons for highly effective removal of NOx at room temperature, RSC Advances, 6(33), 27272-27281 (2016)

with light rare earth elements, Langmuir, 32(34), 8583-8592 (2016)

- •15. X Ge, MQ Chen, JT Wang, DH Long, LC Ling, WM Qiao*, I Mochida, SH Yoon, Fabrication of monolithic carbon nano?ber/carbon composites.
- •RSC Advances, 6(8), 6443-6450 (2016)
- •16. YJ Wei, YQ Tao, ZK Kong, JT Wang, WM Qiao, LC Ling, DH Long, Unique electrochemical behavior of heterocyclic selenium-sulfur cathode materials in ether-based electrolytes for rechargeable lithium batteries, Energy Storage Materials, 5,171-179 (2016)
- •17. YQ Tao, YJ Wei, Y Liu, JT Wang, WM Qiao, LC Ling, DH Long*, Kinetically-enhanced polysulfide redox reactions by Nb2O5 nanocrystals for high-rate lithium-sulfur battery, Energy & Environmental Science, 9(10): 3230-3239 (2016)
- •18. XF Jia, BW Dai, ZX Zhu, JT Wang, WM Qiao, DH Long, LC Ling, Strong and machinable carbon aerogel monoliths with low thermal conductivity prepared via ambient pressure drying, Carbon, 108,551-560 (2016)
- •19. JG Zhou, ZL Sun, MQ Chen, JT Wang, WM Qiao, DH Long, LC Ling, Macroscopic and mechanically robust hollow carbon spheres with superior oil adsorption and light-to-heat evaporation properties, Advanced Functional Materials, 26(29),5368-5375 (2016)
- •20. CF Zhang, M Beidaghi, M Naguib, MR Lukatskaya, MQ Zhao, B Dyatkin, KM Cook, SJ Kim, B Eng, X Xiao, DH Long, WM Qiao, B Dunn, Y Gogotsi, Synthesis and charge storage properties of hierarchical niobium pentoxide/carbon/niobium carbide (MXene) hybrid materials, Chemistry of Materials, 28 (11), 3937-3943 (2016)
- •21. WC Li, ZX Zhang, JT Wang*, WM Qiao, DH Long*, LC Ling, Low temperature catalytic combustion of ethylene over cobalt oxide supported mesoporous carbon spheres. Chemical Engineering Journal, 293, 243-251 (2016)
- Engineering Journal, 293, 243-251 (2016)

 •22. LP Kong, XD Cao, JT Wang, WM Qiao, LC Ling, DH Long, Revisiting Li+ intercalation into various crystalline phases of Nb2O5 anchored on graphene sheets as pseudocapacitive electrodes,
- Journal of Power Sources, 309, 42-49 (2016)

 •23. LP Kong, CF Zhang, JT Wang, WM Qiao, LC Ling, DH Long, Nanoarchitectured Nb2O5 hollow, Nb2O5@carbon and NbO2@carbon core-shell microspheres for ultrahigh-rate intercalation
- pseudocapacitors, Scientific Reports, 6, 21177 (2016)

 •24. JT Wang, LW Yao, C Ma, XH Guo, WM Qiao, LC Ling, DH Long, Organic amine-mediated synthesis of polymer and carbon microspheres mechanism insight and energy-related applications, ACS Applied Materials & Interfaces, 8, 4851-4861 (2016)