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师资队伍

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可再生能源系

李猛

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*个人简历:

李猛，工学博士，博士生导师，重庆市高层次人才。2015年博士毕业于新加坡国立大学（NUS）材料科学与工程学院，研究方向为碳基仿生能源材料与技术。2015年8月至2016年9月在NUS从事博士后研究，研究方向为功能化碳基纳米电极的能量存储和转换。读博之前2009年12月至2012年1月期间在NUS先进纳米材料实验室助理研究员一职，从事功能性能纳米材料的制备与应用相关科研项目的工作。2009年本科毕业于陕西科技大学，获校级优秀毕业生，优秀毕业论文一等奖。本科期间多次获校级一等、二等学业奖学金及优秀学生干部奖学金。博士获新加坡国立大学研究生全额奖学金资助，读博期间获国家留学基金委颁发的国家优秀自费留学生奖学金荣誉。2016年10月加入重庆大学动力工程学院，主要从事纳米新能源材料的能量存储与转换方面的研究与教学工作。

在 Advanced Functional Materials, Nano Energy, Nanoscale, ACS Applied Materials and Interfaces, Journal of Materials Chemistry A, The Journal of Physical Chemistry C, Langmuir 等国际知名期刊上共发表SCI论文40余篇，其中第一或通讯作者20篇，四篇入选ESI高被引论文，影响因子大于10的论文5篇，论文被引超过1000次，H-index为20；在国际知名出版社Taylor & Francis Group出版的《Carbon Nanomaterials Sourcebook》上撰写“Mesoporous Carbon Nanomaterials”章节；数次在国际材料学会年会上（2014 MRS Fall Meeting & Exhibit, Boston; ICMAT2015&IUMRS-ICA2015, Singapore）做口头报告；担任Nanoscale, Journal of Materials Chemistry A, Journal of Materials Chemistry C, Materials Letter, RSC Advances, Journal of Alloys and Compounds等国际期刊审稿人。承担国家自然科学基金、重庆市自然科学基金面上项目、重庆大学人才引进启动经费、中央高校基本科研业务费专项和新加坡国家级科研项目。

教育经历:

2015.8-2016.10	新加坡国立大学（NUS）博士	纳米储能材料及器件后
2012.1-2015.8	新加坡国立大学博士生	碳基储能材料
2009.12-2012.1	新加坡国立大学助理研究员	功能纳米材料
2005.09-2009.07	陕西科技大学本科生	功能高分子材料实验室助研

***研究方向:**

- 1) 复合碳基/氧化物纳米电极在柔性储能器件上的应用研究
- 2) 新型多级微纳结构光热转材料和器件中能量转换及物质/热量输运研究
- 3) 功能化超薄石墨烯基“纳米纸”的制备以及功能化
- 4) 高性能碳基电催化制氢氧电极结构设计及性能调控

研究生培养:

本课题组研究经费充足，实验条件完善。与新加坡国立大学、新加坡科学研究院(A-star)、新加坡南洋理工大学、美国弗吉尼亚理工和国内诸多知名高校的一些课题组保持长期稳定的合作关系，对组内优秀的研究生可推荐至合作课题组攻读博士学位或博士后研究。欢迎对纳米新能源材料与器件研究方向感兴趣的研究生与我联系。也欢迎各位老师同学来组交流合作！

更多详细信息请访问我们团队网站<https://www.x-mol.com/groups/LaFREMD>

个人网站: <http://nanosusenergy.com>

在研科研项目:

- 1) 2019年军队预研项目子课题，主持
- 2) 2018年重庆市基础研究与前沿探索专项，主持
- 3) 2018年重庆大学前沿交叉学科培育专项，主持
- 4) 2018年重庆市技术创新与应用示范（产业类）重点研发项目，参研
- 5) 2017年国家自然科学基金，青年项目，主持
- 6) 2017年重庆市留创计划项目（创新类），主持
- 7) 2017年重庆市人工智能创新重大主题专项（重点研发项目），参研

***发表论文:**

<https://xue.glgoo.net/citations?user=Y0JZ5GsAAAAJ&hl=zh-CN>

1. Wang, J.; Zhang, L.; Sun, K.; He, J.; Zheng, Y.; Xu, C.; Zhang, Y.; Chen, Y.; **Li, Meng***, Improving ionic/electronic conductivity of MoS₂ Li-ion anode via manganese doping and structural optimization. *Chemical Engineering Journal* **2019**, 372, 665-672.
2. Yang Geng, Kezhen Zhang, Peijin Ying, Jiacheng Wang, Wan Sun*, Kuan Sun*, **Meng Li*** Constructing Hierarchical Carbon Framework and Quantifying Water Transfer for Novel Solar Evaporation Configuration, *Carbon* **2019**, 155, 25-33
3. Yong Yang, **Meng Li***, Yuping Wu, Xiaoxing Liu, Tao Wang, Baoyu Zong, Zhihong Yang, Jun Ding and Junmin Xue*; Ultrathin Flexible Graphene/Magnetic Nanodisc Nanocomposite Papers for High-Efficient Electromagnetic Interference Shielding, *Nanoscale* **2016**, 8, 15989-15998 (IF: 7.76).
4. Hu, L.; Sun, K.*; Wang, M.; Chen, W.; Yang, B.; Fu, J.; Xiong, Z.; Li, X.; Tang, X.; Zang, Z.; Zhang, S.; Sun, L.; **Li, M.***, Inverted Planar Perovskite Solar Cells with a High Fill Factor and Negligible Hysteresis by the Dual Effect of NaCl-Doped PEDOT:PSS. *ACS Applied Materials & Interfaces* **2017**.
5. Tang, W.; Chen, Z.; Tian, B.; Lee, H.-W.; Zhao, X.; Fan, X.; Fan, Y.; Leng, K.; Peng, C.; Kim, M.-H.; **Li, M.**; Lin, M.; Su, J.; Chen, J.; Jeong, H. Y.; Yin, X.; Zhang, Q.; Zhou, W.; Loh, K. P.; Zheng, G. W., In Situ Observation and Electrochemical Study of Encapsulated Sulfur Nanoparticles by MoS₂ Flakes. *Journal of the American Chemical Society* **2017**, 139 (29), 10133-10141. (IF = 13.86).
6. **Meng Li***, Junmin Xue, Mesoporous Carbon Nanomaterials, Invited book chapter contribution for *Carbon Nanomaterials Sourcebook*; Taylor & Francis Group; CRC Press: **2016**, pp 505-540.
7. Huang, X.; Leng, M.; Xiao, W.; **Li, Meng**; Ding, J.; Tan, T. L.; Lee, W. S. V.; Xue, J., Activating Basal Planes and S-Terminated Edges of MoS₂ toward More Efficient Hydrogen Evolution. *Advanced Functional Materials* **2017**, 27 (6), 1604943 (IF:12.2, ESI高被引论文).
8. **Meng Li**, Pan Feng, Eugene Shi Guang Choo, Yunbo Lv Yu Chen and Junmin Xue*; Designed construction of Graphene and Iron Oxide Freestanding Electrode with Enhanced Flexible Energy Storage Performance, *ACS Applied Materials and Interfaces* **2016**. 8 (11), 6972-6981 (IF:6.7).
9. Vincent Lee, Erwin Peng, **Meng Li**, Xiaolei Huang and Junmin Xue*; Rational Design of Stable 4 V Lithium Ion Capacitor, *Nano Energy* **2016**, 27, 202-212 (IF:12.27).
10. Yong Yang, **Meng Li**, Yuping Wu, Baoyu Zong, Jun Ding*; Size-dependent microwave absorption properties of Fe₃O₄ nanodiscs, *RSC Advances* **2016**. 6, 25444-25448 (IF:3.9).
11. **Mao Lu, Meng Li** (equal contributions), Junmin Xue, John Wang*; Bendable Graphene/Conducting Polymers Hybrid Films for Freestanding Electrodes with High Volumetric Capacitances, *RSC Advances* **2015**. 6 (4), 2951-2957 (IF:3.9).
12. Vincent Lee, Mei Leng, **Meng Li**, Xiaolei Huang, Junmin Xue*; Sulphur-functionalized graphene towards high performance supercapacitor, *Nano Energy* **2015**. 12, 250-257 (IF: 12.27).
13. **Meng Li**, Zhe Tang, Mei Leng, Junmin Xue*; Flexible Solid-State Supercapacitor Based on Graphene-based Hybrid Films, *Advanced Functional Materials* **2014**. 24 (47), 7495-7502. (IF:12.2, ESI高被引论文).
14. **Meng Li**, Junmin Xue*, Integrated Synthesis of Nitrogen-Doped Mesoporous Carbon from Melamine Resins with Superior Performance in Supercapacitors, *The Journal of Physical Chemistry C* **2014**, 118 (5), 2507-2517. (IF:4.5, ESI高被引论文).
15. Yu Chen, Bohang Song, **Meng Li**, Li Lu, Junmin Xue*, Fe₃O₄ Nanoparticles Embedded in Uniform Mesoporous Carbon Spheres for Superior High-Rate Battery Applications, *Advanced Functional Materials* **2014**, 24 (3), 319-326. (IF:12.2, ESI高被引论文).
16. Xiaoliang Hong, **Meng Li**, Nina Bao, Erwin Peng, Wenmin Li, Junmin Xue, Jun Ding*, Synthesis of FeCo nanoparticles from FeO (OH) and Co₃O₄ using oleic acid as reduction agent, *Journal of nanoparticle research* **2014**, 16 (3), 1-9. (IF:2.278, Jan 2016 Citations:2).

17. **Meng Li**, Jun Ding (co-supervisor), Junmin Xue*, Mesoporous carbon decorated graphene as an efficient electrode material for supercapacitors, *Journal of Materials Chemistry A* **2013**, 1 (25), 7469-7476. (IF:7.443, Jan 2016 Citations:24).
18. **Meng Li**, Junmin Xue*, Ordered mesoporous carbon nanoparticles with well-controlled morphologies from sphere to rod via a soft-template route, *Journal of colloid and interface science* **2012**, 377 (1), 169-175. (IF:3.368, Jan 2016 Citations:37).
19. **Meng Li**, Junmin Xue*, Facile route to synthesize polyurethane hollow microspheres with size-tunable single holes, *Langmuir* **2011**, 27 (7), 3229-3232. (IF:4.457, Jan 2016 Citations:18).

[English version]

Dr. Meng Li received his Ph.D. degree in Materials Science and Engineering at National University of Singapore in 2015 and worked as postdoctoral research fellow at the same institute in 2015-2016. Since 2016, he has been appointed as Assistant Professor in School of Power Engineering at Chongqing University. His research focuses on synthesis of nano-functional materials for the applications of energy storage and conversion.

EDUCATIONAL QUALIFICATIONS

National University of Singapore (NUS), Singapore	Jan 2012 ~ Jul 2015
<ul style="list-style-type: none"> • Ph.D. Materials Science & Engineering, Faculty of Engineering 	
Shaanxi University of Science and Technology (SUST), China	Sep 2005 ~ Jul 2009
<ul style="list-style-type: none"> • Bachelor of Engineering 	

RESEACH & WORKING EXPERIENCE

Research Fellow, Department of Materials Science and Engineering, NUS	Aug 2015 ~ Oct 2016
<ul style="list-style-type: none"> • Work at functional nanomaterials laboratory • Projects: <ol style="list-style-type: none"> a. Design and fabrication of high performance flexible Li-ion Capacitor, Na-ion Battery and supercapacitor based on freestanding hybrid graphene films. b. Ultrathin flexible graphene/magnetic nanodisc nanocomposite papers for high-efficient electromagnetic interference shielding. 	
Ph.D. Candidate, Department of Materials Science and Engineering, NUS	Jan 2012 ~ Jul 2015
<ul style="list-style-type: none"> • Research at functional nanomaterials laboratory • Advisor: Assoc. Prof. Xue Junmin & Prof. Ding Jun • Projects: <ol style="list-style-type: none"> a. Mesoporous carbon nanomaterials as efficient electrode materials b. Design and fabrication of high performance flexible supercapacitors based on freestanding graphene hybrid films c. Development of next generation flexible energy storage devices with hybrid property of supercapacitor and Li-ion battery 	
Research Engineer, Department of Materials Science and Engineering, NUS	Dec 2009 ~ Jan 2012
<ul style="list-style-type: none"> • Employment in functional nanomaterials laboratory • Research Projects: <ol style="list-style-type: none"> a. A facile method to synthesize bimetallic FeCo nanoparticles b. Hollow polymer Microspheres with controllable monoporous for Capturing Nanoparticles or Macromolecules 	
Research Assistant, School of Chemistry and Chemical Engineering, SUST	Jun 2009 ~ Dec 2009
<ul style="list-style-type: none"> • Working in MOE Key Laboratory of Auxiliary Chemistry & Technology for Chemical Industry. • Research Projects: <ol style="list-style-type: none"> a. Application and Development of High Performance Polyurethane Elastomer b. Exploring Modified Polyurethane Elastomer with Enhanced Heat-resistant property 	

LIST of PUBLICATIONS

<https://xue.glgoo.net/citations?user=Y0JZ5GsAAAAJ&hl=zh-CN>

1. Wang, J.; Zhang, L.; Sun, K.; He, J.; Zheng, Y.; Xu, C.; Zhang, Y.; Chen, Y.; **Li, Meng***, Improving ionic/electronic conductivity of MoS₂ Li-ion anode via manganese doping and structural optimization. *Chemical Engineering Journal* **2019**, 372, 665-672.
2. Yang Geng, Kezhen Zhang, Peijin Ying, Jiacheng Wang, Wan Sun*, Kuan Sun*, **Meng Li*** Constructing Hierarchical Carbon Framework and Quantifying Water Transfer for Novel Solar Evaporation Configuration, *Carbon* **2019**, 155, 25-33
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4. Hu, L.; Sun, K.*; Wang, M.; Chen, W.; Yang, B.; Fu, J.; Xiong, Z.; Li, X.; Tang, X.; Zang, Z.; Zhang, S.; Sun, L.; **Li, M.***, Inverted Planar Perovskite Solar Cells with a High Fill Factor and Negligible Hysteresis by the Dual Effect of NaCl-Doped PEDOT:PSS. *ACS Applied Materials & Interfaces* **2017**.

5. Tang, W.; Chen, Z.; Tian, B.; Lee, H.-W.; Zhao, X.; Fan, X.; Fan, Y.; Leng, K.; Peng, C.; Kim, M.-H.; **Li, M.**; Lin, M.; Su, J.; Chen, J.; Jeong, H. Y.; Yin, X.; Zhang, Q.; Zhou, W.; Loh, K. P.; Zheng, G. W., In Situ Observation and Electrochemical Study of Encapsulated Sulfur Nanoparticles by MoS₂ Flakes. *Journal of the American Chemical Society* **2017**, 139 (29), 10133-10141. (IF = 13.86)
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9. Vincent Lee, Erwin Peng, **Meng Li**, Xiaolei Huang and Junmin Xue*; Rational Design of Stable 4 V Lithium Ion Capacitor, *Nano Energy* **2016**, 27, 202-212 (IF:12.27).
10. Yong Yang, **Meng Li**, Yuping Wu, Baoyu Zong, Jun Ding*; Size-dependent microwave absorption properties of Fe₃O₄ nanodiscs, *RSC Advances* **2016**. 6, 25444-25448 (IF:3.9).
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15. Yu Chen, Bohang Song, **Meng Li**, Li Lu, Junmin Xue*, Fe₃O₄ Nanoparticles Embedded in Uniform Mesoporous Carbon Spheres for Superior High-Rate Battery Applications, *Advanced Functional Materials* **2014**, 24 (3), 319-326. (IF:12.2, ESI high cited paper)
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