

导师信息采集表

姓名	梁丽媛	性别	女	最高学位	博士
博导/硕导	硕导	邮箱	liangliyuan@cigit.ac.cn		
<p>个人简介 (限 300 字) :</p> <p>博士, 副研, 硕导。2011 年 7 月于法国波尔多大学获得理学博士学位, 2014/10 加入中科院重庆绿色智能技术研究院。重庆市高层次引进人才第四类, 主持中科院青促会项目, 国家自科金青年基金项目, 重庆市基础前沿重点项目, 重庆市留创优秀项目, 参与中科院仪器装备项目及石墨烯研究院项目, 在国际学术期刊 (Angew. Chem. Int. Ed., Chem. Sci., Acc. Chem. Res., Chem. Commun., Adv. Synth. Catal, Chem. Eur. J., Coord. Chem. Rev., J. Mater. Chem. C, Langmuir, J. Phys. Chem. B 等) 已发表论文 30 余篇, 他引超千次。</p>					
<p>教育经历 :</p> <p>2008/09-2011/07, 波尔多大学, 有机化学, 博士</p> <p>2011/09-2012/09, 多伦多大学, 博士后</p> <p>2012/09-2014/09, 牛津大学, 玛丽居里学者</p>					
<p>主要研究方向 :</p> <p>纳米孔单分子检测; 有机无机功能杂化材料; 化学/生物传感及智能响应; 绿色催化</p>					
<p>招生专业 :</p> <p>080501-材料物理与化学</p> <p>0703J1-纳米科学与技术</p>					
<p>科研成果 (含文章、专利、科研项目等) :</p> <p>文章 :</p> <p>31. Haibing Tian, Wanyi Xie, Shixuan He, Daming Zhou, Shaoxi Fang, Liyuan Liang*, Deqiang Wang*, Investigation of the adsorption behavior of BSA with tethered lipid layer-modified solid-state nanopores in a wide pH range, RSC Adv., 2019, 9, 15431-15436.</p>					

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29. Feng He, **Liyuan Liang***, Shuo Zhou, Wanyi Xie, Shixuan He, Yunjiao Wang, Chaker Tlili, Shoufeng Tong*, Deqiang Wang*, "Label-free sensitive detection of Microcystin-LR via aptamer-conjugated gold nanoparticles based on solid-state nanopores" , *Langmuir*, **2018**, 34, 14825-14833.
28. Linjie Liang, Xiaohua Zhang, Xin Zhang, Jingna Zhao, Jian Wu, **Liyuan Liang** et al. "Strong, Healable, and Recyclable Composite Paper Made from a Codispersion of Carbon Nanotube and Sulfonated Graphene Polymer" , *Macromol. Mater. Eng.* **2018**, 1800208-13.
27. F. He, B. Yin, W. Xie, L. Yu, S. Tong*, **L. Liang***, D. Wang*, "Detection of Gold Nanoparticles with Different Sizes By Using Solid-state Nanopore" , IEEE 3M-NANO International Conference, 2017.
26. Bohua Yin, Wanyi Xie, **Liyuan Liang***, Yunsheng Deng, Shixuan He, Feng He, Daming Zhou, Chaker Tlili, Deqiang Wang, "Covalent modification of silicon nitride nanopore by amphoteric polylysine for short DNA detection" , *ACS Omega*, 2017, 2, 7127-7135.
25. **Liyuan Liang***, Wanyi Xie, Shaoxi Fang, Feng He, Bohua Yin, Chaker Tlili, Deqiang Wang, Song Qiu, Qingwen Li, "High-efficiency dispersion and sorting of Single-walled Carbon Nanotubes via non-covalent interactions", *J. Mater. Chem. C* 2017, 5, 11339-11368.
24. **Liyuan Liang**, Jaime Ruiz and Didier Astruc, "Catalysis in aqueous solvent of cross C-C coupling reactions by Bis- and Tris(ferrocenyltriazolylmethyl)arene-stabilized Pd(0) nanoparticles" , *Eur. J. Inorg. Chem.* 2012, 2950-2958.
23. **Liyuan Liang**, Didier Astruc, "The Copper(I)-catalyzed Alkyne-Azide Cycloaddition (CuAAC) "Click" Reaction and its Applications. An Overview" , *Coord. Chem. Rev.* 2011, 2933-2945.
22. **Liyuan Liang**, Jaime Ruiz and Didier Astruc, "The Efficient Copper(I) (Hexabenzyl)tren Catalyst and Dendritic Analogues for Green "Click" Reactions between Azides and Alkynes in Organic Solvent and in Water: Positive Dendritic Effects and Monometallic Mechanism" , *Adv. Synth. Catal.* 2011, 353, 3434-3450.
21. **Liyuan Liang**, Amalia Rapakousiou , Jaime Ruiz, Didier Astruc, Rashmirekha Satapathy, Barada Prasanna Dash, and Narayan S. Hosmane. " 'Click' Assembly of Carborane-Appended Polymers and Stabilization of Gold and Palladium Nanoparticles" , *Eur. J. Inorg. Chem.* 2011, 3043-3049.
20. Didier Astruc, **Liyuan Liang**, Amalia Rapakousiou , Jaime Ruiz, "Click Dendrimers and Triazole-Related Aspects: Catalysts, Mechanism, Synthesis, and Functions. A Bridge between Dendritic Architectures and Nanomaterials" , *Acc. Chem. Res.* 2012, 45, 630-640.
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17. **Liyuan Liang**, Jaime Ruiz, Didier Astruc, " 'Click' Synthesis of a Heterobifunctional Ferrocenyl Dendrimer with Molecular Recognition Properties and Influence of the Ferrocenyl Redox Potential on the Formation of Gold Nanoparticles" , *J Inorg Organomet Polym.*, 2010, *20*, 503–510.
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15. Kai Wang, **Liyuan Liang**, Shaoliang Lin, Xiaohua He, "Synthesis of well-defined ABC triblock copolymers with polypeptide segments by ATRP and Click reactions" , *Euro. Polym. J.*, 2008, *44*, 3370–3376.
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13. Xiaohua He, **Liyuan Liang**, Kai Wang, Shaoliang Lin, Deyue Yan, Yiqun Zhang, " A New Synthetic Approach to Asymmetric Amphiphilic ABA ' Block Copolymers by ATRP and Click Reactions" , *J. Appl. Polym. Sci.*, 2009, *111*, 560–565.
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11. Abdou K. Diallo, Elodie Boisselier, **Liyuan Liang**, Jaime Ruiz, Didier Astruc, "Dendrimer-Induced Molecular Catalysis in Water: The Example of Olefin Metathesis" , *Chem. Eur. J.*, 2010, *16*, 11832 – 11835.
10. Muhammad Sajid, Annika Klose, Birgit Birkmann, **Liyuan Liang**, Gerald Kehr, Alan Lough, Roland Fröhlich, Constantin Daniliuc, Birgitta Schirmer, Stefan Grimme, Douglas W. Stephan, Gerhard Erker, "Reactions of Phosphorus/Boron Frustrated Lewis Pairs with SO₂" , *Chem. Sci.*, 2013, *4*, 213-219.
9. Didier Astruc, Pengxiang Zhao, **Liyuan Liang**, Amalia Rapakousiou, Rodrigue Djeda, Abdou Diallo, Tetsuro Kusamoto, Jaime Ruiz, Catia Ornelas, "Dendritic Molecular Nanobatteries and the Contribution of Click Chemistry" , *J Inorg Organomet Polym.*, 2013, *23*, 41-49.
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7. Didier Astruc, Cátia Ornelas, Amalia Rapakouciou, **Liyuan Liang**, Rodrigue Djeda, Jaime Ruiz, "Redox recognition using "click" chemistry" , *Inorganica Chimica Acta* , 2011, *374*, 51-58.

6. Didier Astruc, Abdou K. Diallo, Sylvain Gatard, *Liyuan Liang*, Cátia Ornelas, Victor Martinez, Denise Méry, Jaime Ruiz, "Olefin metathesis in nano-sized systems" , *Beilstein J. Org. Chem.*, 2011, 7, 94-103.
5. Xiaohua He, Wuqiong Sun, Deyue Yan, *Liyuan Liang*. "Novel ABC₂-Type Liquid-Crystalline Block Copolymers with Azobenzene Moieties Prepared by Atom Transfer Radical Polymerization" , *Euro. Polym. J.*, 2008, 44, 42-49.
4. D. Astruc, R. Ciganda, C. Deraedt, S. Gatard, *Liyuan Liang*, et al. "Click Metallodendrimers and Their Functions", *Synlett*, 2015, 26, 1437-1449.
3. S. Lin, W. Zhu, X. He, Y. Xing, *Liyuan Liang*, et al. "Multicompartmental Hollow Micelles Formed by Novel Linear ABC Triblock Copolymers in Aqueous Medium", *J. Phys. Chem. B*, 2013, 117, 2586-2593.
2. S. Feng, X. Li, P. He, L. Wang, Z. Li, *Liyuan Liang*, et al. "Porous structure diamond films with super-hydrophilic performance", *Diamond and Related Materials*, 2015, 56, 36-41.
1. Xiaohua He, *Liyuan Liang*, Meiran Xie, Yiqun Zhang, "The modification of carbon nanotubes with grafting polypeptide" , Patent No. 200610116642.3 China 2007.

发明专利：

1. 梁丽媛, 王德强, 何峰, 周硕, 谢婉谊, 何石轩, 方绍熙, 201810129839. 3
2. 蔡瑶, 梁丽媛, 王德强, 张保才, 谢婉谊, 201811305786. 2
3. 梁丽媛, 王德强, 唐婧, 王森, 蒋海涛, 陆文强, 201811233861. 9
4. 梁丽媛, 王德强, 唐婧, 王森, 蒋海涛, 陆文强, 201811233842. 6
5. 梁丽媛, 王森, 王德强, 蔡瑶, 谢婉谊, 田海兵, 201811479084. 6

参与或主持过的科研项目

- 主持：2017/11- 2018/12：重庆市留学回国创新类优秀项目，“基于石墨烯纳米孔的单碱基识别机制研究”
- 主持：2017/6-2020/9：重庆市基础科学与前沿技术研究重点项目，“石墨烯纳米孔-纳米粒子间隙捕获 DNA 分子光致电信号增强机制研究”
- 主持：2017/1-2017/12：中国科学院青年创新促进会项目
- 参与：2016/1-2017/12：中国科学院科研装备研制项目，“单分子操纵石墨烯纳米孔 DNA 测序仪”
- 主持：2016/1-2018/12：国家自然科学基金青年基金，“基于 CuAAC 点击反应的二茂铁基聚噻吩的合成及其对氧化锌纳米线的共价表面修饰研究”

- 主持：2012/09–2014/09 欧盟玛丽居里基金（The Catalytic Synthesis of Sulfonamides）20.9 万欧元
- 参与：2011/09–2012/09 加拿大 NSERC 项目（Frustrated Lewis Pairs in hydrogen storage materials: A new paradigm）
- 参与：2008/09–2011/05 法国国家研究管理局（Nanoréacteurs hydrosolubles à base de cyclodextrines pour la catalyse dans l'eau）

所获荣誉：

- (1) 重庆市高层次引进人才第四类, 省级, 2016
- (2) 欧盟玛丽居里奖学金, 其他, 2011

个人承诺：本人承诺以上信息真实。如有不实之处，愿承担相应后果。

承诺人签名：