



姓 名 唐亚文

职 称 教授

学位学历 博士

联系电话

E-mail tangyawen@njnu.edu.cn

个人简介: 唐亚文, 男, 教授, 博士, 博士生导师, 全国有机电化学及工业协会副理事长、中国氢能协会委员、江苏省化学化工学会化学教育专业委员会副理事长、江苏省电化学工程专业委员会主任、江苏省新型动力电池重点实验室主任。主要研究方向: 纳米电化学、化学电源、电化学传感器。近年来, 在 *Adv Mater*、*Adv Energy Mater*、*Adv Funct Mater*、*Nano Lett*、*Nano Energy*、*Adv Sci*、*Chem Sci*、*Small* 等期刊发表 SCI 论文 200 余篇; 近五年他引 3000 余次, H 因子 35; 申报和授权国家发明专利 24 项; 主编教材两部; 主持国家“863”项目和国家自然科学基金项目 9 项; 省高新技术、省产学研前瞻项目等省部级 4 项。获江苏省教学成果二等奖两项; 省高校科学技术奖一等奖一项; 省科学技术奖(自然类)三等奖一项。南京师范大学奕熙精英教师奖、教书育人奖、师德先进个人奖获得者。

研究方向: 研究方向为电化学。主要研究内容为纳米电化学、化学电源、电化学传感器。

承担项目:

1. 国家自然科学基金, 氰胶法制备锚定型多孔碳基过渡金属双功能空气电极及其性能研究(21875112), 2019.01-2022.12。
2. 江苏省新型动力电池重点实验室(BM2010573), 600 万, 2017.9-2019.12。
3. 国家自然科学基金-云南联合基金(重点项目), 双极聚合物隔膜直接甲醇燃料电池中的界面行为研究(U1137602), 2012.01-2015.12。
4. 国家自然科学基金, 以氰胶为前驱体制备多孔贵金属基合金纳米聚集体及其在质子交换膜燃料电池中应用(21376122), 2014.1-2017-12。
5. 国家自然科学基金, 降低甲酸在 Pd 催化剂上分解的机理研究(21273116), 2013.01-2016.12。
6. 国家自然科学基金, 直接甲醇燃料电池阳极催化剂的研究(20573057), 2006.01-2008.12。
7. 国家科技部 863 子课题, 直接甲酸燃料电池催化剂(2007AA05Z143), 2007.01-2010.12。
8. 国家科技部 863 子课题, 直接甲醇燃料电池阴极催化剂及替代燃料研究(2003AA517063), 2003.01-2006.12。
9. 江苏省科技厅产学研前瞻性项目, 小型直接甲酸燃料电池研究(BY2012001), 2012.06-2014.06。
10. 江苏省自然科学基金, 直接甲醇燃料电池阳极催化剂的制备与性能研究(BK2006224), 2006.07-2008.12。
11. 江苏省高校高新技术产业化项目, 小型直接甲醇燃料电池(JH02-080), 2003.06-2005.12。

获奖:

1. 南京师范大学奕熙精英教师奖, 2017 年。
2. 江苏省优秀教学成果二等奖, 2017 年, 第二。
3. 南京师范大学 2016 年度“十项主要科研进展”。

4. 南京师范大学 2016 年度优秀研究生导师。
5. 2008、2011、2013、2014、2017 年江苏省普通高校本专科优秀毕业设计论文一等奖。江苏省教育厅，指导老师。
6. 2008、2011、2013、2014、2017 年江苏省普通高校本专科优秀毕业设计团队。江苏省教育厅，指导老师。
7. 2013、2014、2015、2016、2017 年优秀硕士生毕业论文-导师。
8. 2016 年，南京师范大学教书育人奖。
9. 2015 年，南京师范大学最受学生欢迎的教师。
10. 江苏省优秀教学成果二等奖，2013，第二。
11. 2012 年，南京师范大学师德先进个人。
12. 2009 年，南京师范大学最受学生欢迎的教师。
13. 黑龙江省高校科学技术奖一等奖，直接醇类燃料电池阳极高性能催化剂的研究；2009，第五。
14. 黑龙江省科学技术奖（自然类）三等奖，直接醇类燃料电池阳极新型复合催化剂的研究；2009，第四。

主要论文：

1. Gengtao Fu, Xiaoxiao Yan, Yifan Chen, Lin Xu, Dongmei Sun, Jong-Min Lee* and Yawen Tang*, Boosting Bifunctional Oxygen Electrocatalysis with 3D Graphene Aerogels Supported Ni/MnO Particles, *Advanced Materials*, 2018, 1704609.
2. Gengtao Fu[#], Jie Wang[#], Yifan Chen, Yu Liu, Yawen Tang*, John B. Goodenough*, and Jong-Min Lee*, Exploring Indium-based Ternary Thiospinel as Conceivable High-potential Air-cathode for Rechargeable Zn-air Batteries, *Advanced Energy Materials*, 2018, DOI:10.1002/aenm.201802263.
3. Tongfei Li, Gan Luo, Kunhao Liu, Xin Li, Dongmei Sun, Lin Xu*, Yafei Li* and Yawen Tang*, Encapsulation of Ni₃Fe nanoparticles in N-doped carbon nanotube-grafted carbon nanofibers as high-efficiency hydrogen evolution electrocatalysts, *Advanced Functional Materials*, *In Revising*
4. Xiaoyu Qiu[#], Xiaohong Yan[#], Huan Pang, Jingchun Wang, Dongmei Sun, Shaohua Wei, Lin Xu* and Yawen Tang*, Isolated Fe Single Atomic Sites Anchored on Highly-steady Hollow Graphene Nanospheres as an Efficient Electrocatalyst for the Oxygen Reduction Reaction, *Advanced Science*, *In Revising*.
5. Zhenyuan Liu, Xiaoyu Yang, Bingqing Lu, Zhaoping Shi, Dongmei Sun, Lin Xu*, Yawen Tang, Shuhui Sun*, Delicate topotactic conversion of coordination polymers to Pd porous nanosheets for high-efficiency electrocatalysis, *Applied Catalysis B: Environmental*, *In Revising*.
6. Gengtao Fu[#], Xian Jiang[#], Yifan Chen, Lin Xu, Dongmei Sun, Jong-Min Lee* and Yawen Tang*, Robust bifunctional oxygen electrocatalyst, with a “rigid and flexible” structure for air-cathodes, *NPG Asia Materials*, 2018, DOI 10.1038/s41427-018-0057-y.
7. Xian Jiang, Xiaoyu Qiu, Gengtao Fu, Jingze Sun, Zhenna Huang, Dongmei Sun, Lin Xu*, Jiancheng Zhou* and Yawen Tang*, Highly simple and rapid synthesis of ultrathin gold nanowires with (111)-dominant facets and enhanced electrocatalytic properties, *Journal of Material Chemistry A*, 2018, DOI:10.1039/C8TA06676K.
8. Xiaoxiao Yan, Xuejiao Hu, Gengtao Fu*, Lin Xu, Jong-Min Lee*, and Yawen Tang*, Facile Synthesis of Porous Pd₃Pt half-shells with Rich “Active Sites” as Efficient Catalysts for the Formic Acid Oxidation, *Small*, 2018, 1703940.
9. Xian Jiang, Gengtao Fu, Xia Wu, Yang Liu, Mingyi Zhang, Dongmei Sun, Lin Xu*, and Yawen Tang*, Ultrathin AgPt alloy nanowires as a high-performance electrocatalyst for formic acid oxidation, *Nano Research*, 2018, 11, 499-510.
10. Xiaoyu Qiu, Tiancheng Li, Sihui Deng, Ke Cen, Hanyue Zhang, Lin Xu*, and Yawen Tang*, A general strategy for synthesis of PtM (M = Fe, Co, Ni) decorated three-dimensional hollow graphene nanospheres for efficient methanol electro-oxidation, *Chemistry-A European Journal*, 2018, 24, 1246-1252.
11. Yifan Chen, Yifan Yang, Gengtao Fu*, Lin Xu, Dongmei Sun, Jong-Min Lee* and Yawen Tang*, Core-shell CuPd@Pd tetrahedra with concave structures and Pd-enriched surface boost formic acid oxidation, *Journal of Material Chemistry A*, 2018, 6, 10632–10638
12. Zhenyuan Liu, Gengtao Fu*, Jiahui Li, Zhenqi Liu, Lin Xu, Dongmei Sun, and Yawen Tang*, Facile synthesis based on novel carbon-supported cyanogel of structurally ordered Pd₃Fe/C as electrocatalyst for formic acid oxidation, *Nano Research*, <https://doi.org/10.1007/s12274-018-2051-7>.

13. Xiaoyu Qiu, Xiaoxiao Yan, Ke Cen, Dongmei Sun, Lin Xu*, and Yawen Tang*, Achieving Highly Electrocatalytic Performance by Constructing Holey Reduced Graphene Oxide Hollow Nanospheres Sandwiched by Interior and Exterior Platinum Nanoparticles *ACS Applied Energy Materials*. 2018, 1, 2341–2349
14. Gengtao Fu, Zhiming Cui*, Yifan Chen, Yutao Li, Yawen Tang*, and John B. Goodenough*, Ni₃Fe-N Doped Carbon Sheets as a Bifunctional Electrocatalyst for Air Cathodes, *Advanced Energy Materials*, 2017, 7, 1601172.
15. Xiaoyu Qiu, Hanyue Zhang, Peishan Wu, Fengqi Zhang, Shaohua Wei, Dongmei Sun, Lin Xu*, and Yawen Tang*, One-Pot Synthesis of Freestanding Porous Palladium Nanosheets as Highly Efficient Electrocatalysts for Formic Acid Oxidation, *Advanced Functional Materials*. 2017, 27, 1603852.
16. Gengtao Fu, Zhiming Cui*, Yifan Chen, Lin Xu, Yawen Tang*, John B. Goodenough*, Novel Self-assembly Strategy Derived Hierarchically Mesoporous Nickel-Iron Nitrides: An Effective Oxygen Evolution Electrocatalyst for Rechargeable Zn-air Battery, *Nano Energy*, 2017, 39, 77-85.
17. Tongfei Li, Yinjie Lv, Jiahui Su, Yi Wang, Qian Yang, Yiwei Zhang, Jiancheng Zhou, Lin Xu*, Dongmei Sun, and Yawen Tang*, Anchoring CoFe₂O₄ nanoparticles on N-doped carbon nanofibers for high-performance oxygen evolution reaction, *Advanced Science*, 2017, 4, 1700226.
18. Yifan Chen, Gengtao Fu, Yueyang Li, Quanshu Gu, Lin Xu, Dongmei Sun* and Yawen Tang*, L-Glutamic acid derived PtPd@Pt core/satellite nanoassemblies as an effectively cathodic electrocatalyst, *Journal of Material Chemistry A*, 2017, 5, 3774-3779.
19. Jingfei Zhang, Lijuan Qi, Xiaoshu Zhu, Xiaohong Yan, Yufeng Jia, Lin Xu, Dongmei Sun*, Yawen Tang*, Proline-derived in situ synthesis of N-doped porous carbon nanosheets with encaged Fe₂O₃@Fe₃C nanoparticles for lithium-ion battery anodes, *Nano Research*, 2017, 10, 3164-3177.
20. Huimin Liu, Jiahui Li, Lijuan Wang, Yawen Tang*, Bao Yu Xia*, and Yu Chen*, Trimetallic PtRhNi alloy nanoassemblies as highly active electrocatalyst for ethanol electrooxidation, *Nano Research*, 2017, 10, 3324-3332.
21. Xiaoxiao Yan, Yifan Chen, Sihui Deng, Yifan Yang, Zhenna Huang, Cunwang Ge, Lin Xu*, Dongmei Sun, Gengtao Fu, and Yawen Tang*, In Situ Integration of Ultrathin PtCu Nanowires with Reduced Graphene Oxide Nanosheets for Efficient Electrocatalytic Oxygen Reduction, *Chemistry-A European Journal*, 2017, 23, 16871-16876.
22. Yifan Chen, Xian Jiang, Yueyang Li, Pei Li, Qicheng Liu, Gengtao Fu,* Lin Xu, Dongmei Sun, Yawen Tang*, General Strategy for Synthesis of Pd₃M (M=Co and Ni) Nanoassemblies as High-Performance catalysts for Electrochemical Oxygen Reduction, *Advanced Materials Interfaces*, 2017, 1701015.
23. Xiaoyu Qiu, Yuxuan Dai, Xiaoshu Zhu, Hanyue Zhang, Ping Wu, Yawen Tang* and Shaohua Wei, Template-engaged synthesis of hollow porous platinum-palladium alloy nanospheres for efficient methanol electro-oxidation, *Journal of Power Sources*, 2016, 302, 195-201.
24. Gengtao Fu, Huimin Liu, Nika You, Jiayan Wu, Dongmei Sun, Lin Xu, Yawen Tang* and Yu Chen*, The dendritic platinum-copper bimetallic nanoassemblies with tunable composition and structure: Arginine driven self-assembly and their enhanced electrocatalytic activity, *Nano Research*, 2016, 9, 755-765.
25. Gengtao Fu, Xiaoxiao Yan, Zhiming Cui, Dongmei Sun, Lin Xu, Yawen Tang*, John B. Goodenough, Jong-Min Lee*, Catalytic activities for methanol oxidation on ultrathin CuPt₃ wavy nanowires with/without smart polymer Superior catalytic activity and stability for the methanol oxidation reaction of a direct methanol–air fuel cell, *Chemical Science*, 2016, 7, 5414-5420.
26. Gengtao Fu, Zhenyuan Liu, Jingfei Zhang, Jiayan Wu, Lin Xu, Dongmei Sun, Jubing Zhang, Yawen Tang*, Pei Chen*, Spinel MnCo₂O₄ nanoparticles cross-linked with two-dimensional porous carbon nanosheets as a high-efficiency oxygen reduction electrocatalyst, *Nano Research*, 2016, 9, 2110-2122.
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28. Gengtao Fu, Yifan Chen, Zhiming Cui,* Yutao Li, Weidong Zhou, Sen Xin, Yawen Tang,* and John B. Goodenough*, Novel Hydrogel-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Air Cathodes, *Nano Letters*, 2016, 16, 6516-6522.
29. Xian Jiang, Xiaoxiao Yan, Wangyu Ren, Yufeng Jia, Jianian Chen, Dongmei Sun, Lin Xu,* and Yawen Tang*, Porous AgPt@Pt Nanooctahedra as an Efficient Catalyst toward Formic Acid Oxidation with Predominant Dehydrogenation Pathway, *ACS Applied Materials & Interfaces*, 2016, 8, 31076-31082.
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electrooxidation, *Journal of Power Sources*, 2015, 278, 430-435.

31. Mingxing Gong, Zhigang Yao, Fayan Lai, Yu Chen*, Yawen Tang*, Platinum-copper alloy nanocrystals supported on reduced graphene oxide: One-pot synthesis and electrocatalytic applications, *Carbon*, 2015, 91, 338-345.
32. Xiaoyu Qiu, Ping Wu, Yawen Tang*, Jong-Min Lee*, Three-dimensional graphene hollow nanospheres @palladium networks as efficient electrocatalysts for formic acid oxidation, *Advanced Materials Interfaces*, 2015, 1500321.
33. Ming-Xing Gong, Xian Jiang, Tie-Ying Xue, Tian-Yi Shen, Lin Xu*, Dong-Mei Sun, and Ya-Wen Tang*, PtCu nanodendrites assisted synthesis of PtPdCu concave nanooctahedrons with improved electrocatalytic activity for the methanol oxidation reaction, *Catalysis Science & Technology*, 2015, 5, 5105-5109.
34. Geng-Tao Fu, Ming-Xing Gong, Qian Zhang, Ya-Wen Tang*, Lin Xu, Dong-Mei Sun and Jong-Min Lee*, Hollow and porous palladium nanocrystals: synthesis and electrocatalytic application, *Journal of Material Chemistry A*, 2015, 3, 21995-21999.
35. Gengtao Fu, Qian Zhang, Jiayan Wu, Dongmei Sun, Lin Xu, Yawen Tang*, and Yu Chen*, Arginine-mediated synthesis of cube-like platinum nanoassemblies as efficient electrocatalysts, *Nano Research*, 2015, 8, 3963-3971.
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39. Mingxing Gong, Gengtao Fu, Yu Chen*, Yawen Tang*, and Tianhong Lu, Autocatalysis and Selective Oxidative Etching Induced Synthesis of Platinum-Copper Bimetallic Alloy Nanodendrites Electrocatalysts *ACS Applied Materials & Interfaces*, 2014, 6, 7301-7308.
40. Xin-Yu Liu, Ying Zhang, Ming-Xing Gong, Ya-Wen Tang*, Tian-Hong Lu, Yu Chen, Jong-Min Lee*, Facile synthesis of corallite-like Pt-Pd alloy nanostructures and their enhanced catalytic activity and stability for ethanol oxidation, *Journal of Materials Chemistry A*. 2014, 2, 13840-13844.
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44. Ruopeng Zhao, Yi Liu, Chang Liu, Guangrui Xu, Yu Chen*, Yawen Tang*, Tianhong Lu, Pd@Pt core-shell tetrapods as highly active and stable electrocatalysts for the oxygen reduction reaction, *Journal of Materials Chemistry A*, 2014, 2, 20855-20860.
45. Geng-Tao Fu, Xian Jiang, Rui Wu, Shao-Hua Wei, Dong-Mei Sun, Ya-Wen Tang*, Tian-Hong Lu, and Yu Chen*, Arginine-Assisted Synthesis and Catalytic Properties of Single Crystalline Palladium Tetrapods, *ACS Applied Materials & Interfaces*. 2014, 6, 22790-22795.
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