



中北大学

化学工程与技术学院

School of Chemical Engineering and Technology



化育万物，工致于行

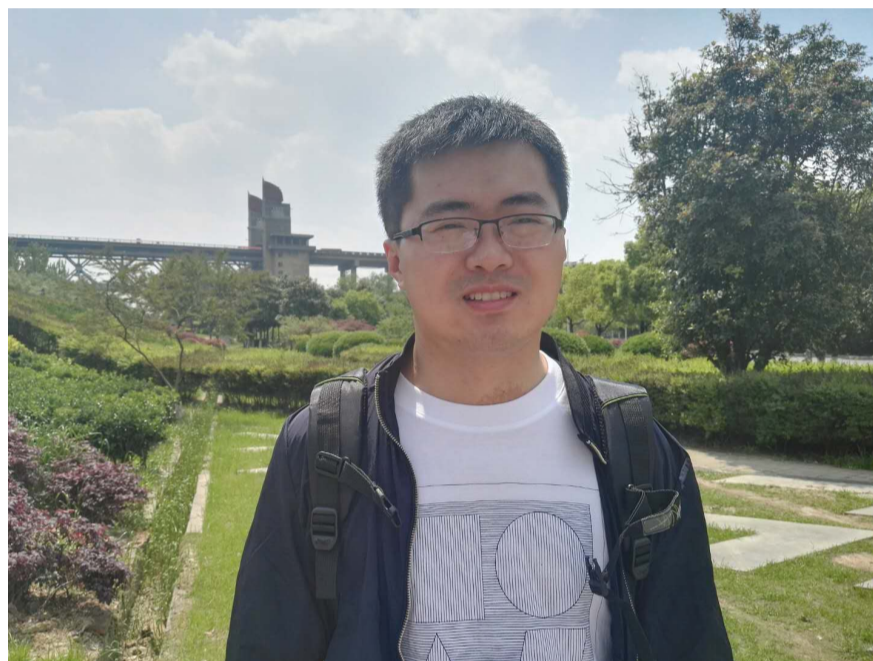
首页 学院概况 师资队伍 学科专业 科学研究 招生就业 学生工作 党群工作 校友工作 资料下载 制度汇编

硕士生导师

当前位置: 首页 >> 师资队伍 >> 硕士生导师 >> 正文

张栋铭

日期: 2019年09月25日 发布人: 签发人: 王艳红 点击数: 3609



1、个人简介

张栋铭，男，1989年生，博士，教授，中北大学化学工程与技术学院教师，硕士研究生导师，2018年度山西省“三晋英才”支持计划青年优秀人才。近年，在《Nano Research》、《Journal of Power Sources》、《Electrochimica Acta》、《Carbon》、《Electrochemistry Communications》、《International Journal of Hydrogen Energy》、《Journal of Alloys and Compounds》、《Dalton Transactions》等国际著名学术期刊上发表SCI论文30余篇；授权国家发明专利8项；主持国家自然科学基金1项，山西省自然科学基金1项，山西省高等学校科技创新项目1项；多次受邀参加国际及国内学术会议，并作会议报告。

研究方向：

新能源、有机电化学合成

联系方式：

邮箱：zhangdongming06@outlook.com

2、教育经历

2012年9月-2016年6月，哈尔滨工程大学 材料科学与工程专业，博士（硕博连读）

2008年9月-2012年6月，哈尔滨工程大学 化学工程与工艺专业，学士

3、工作经历

2018年12月-至今，中北大学化学工程与技术学院，教授（特殊破格）

2016年6月-2018年12月，中北大学化学工程与技术学院，讲师

4、代表性科研成果

论文：

[1]Zhang DM, Wang GL, Cheng K, Huang JC, Yan P, Cao DX*. Enhancement of electrocatalytic performance of hydrogen storage alloys by multi-walled carbon nanotubes for sodium borohydride oxidation. Journal of Power Sources. 2014;245:482-6. (SCI 1区, Top期刊, IF: 7.467)

[2]Zhang DM, Ye K, Cao DX, Yin JL, Cheng K, Wang B, Xu Y, Wang GL*. Catalytic behavior of a palladium doped binder free paper based cobalt electrode in electroreduction of hydrogen peroxide. Journal of Power Sources. 2015;273:1142-7. (SCI 1区, Top期刊, IF: 7.467)

[3]Zhang DM, Cao DX, Ye K*, Yin JL, Cheng K, Wang GL*. Cobalt nano-sheet supported on graphite modified paper as a binder free electrode for peroxide electrooxidation. Electrochimica Acta. 2014;139:250-5. (SCI 1区, Top期刊, IF: 5.383)

[4]Zhang DM, Ye K, Cao DX, Wang B, Cheng K, Li YJ, Wang GL*, Xu Y*. Co@MWNTs-Plastic: A novel electrode for NaBH₄oxidation. *Electrochimica Acta*. 2015;156:102-7. (SCI 1区, Top期刊, IF: 5.383)

[5]Zhang DM, Zhou XB, Ye K, Li YJ, Song CY, Cheng K, Cao DX, Wang GL*, Li Q*. Synthesis of honeycomb-like NiS₂/NiO nano-multiple materials for high performance supercapacitors. *Electrochimica Acta*. 2015;173:209-14. (SCI 1区, Top期刊, IF: 5.383)

[6]Zhang DM, Ye K, Cheng K, Cao DX, Yin JL, Xu Y, Wang GL*. High electrocatalytic activity of cobalt-multiwalled carbon nanotubes-cosmetic cotton nanostructures for sodium borohydride electrooxidation. *International Journal of Hydrogen Energy*. 2014;39:9651-7. (SCI 2区, Top期刊, IF: 4.084)

[7]Zhang DM, Wang GL*, Yuan Y, Li YG*, Jiang SP, Wang YK, Cao DX, Yan P, Cheng K. Three-dimensional functionalized graphene networks modified Ni foam based gold electrode for sodium borohydride electrooxidation. *International Journal of Hydrogen Energy*. 2016;41:11593-8. (SCI 2区, Top期刊, IF: 4.084)

[8]Zhang DM*, Zhang JJ, Wang HY, Cui C, Jiao WZ, Gao J, Liu YZ*. Novel Ni foam based nickel oxalate derived porous NiO nanostructures as highly efficient electrodes for the electrooxidation of methanol/ethanol and urea. *Journal of Alloys and Compounds*. 2019;806:1419-29. (SCI 2区, Top期刊, IF: 4.175)

[9]Zhang DM, Cheng K, Shi NN, Guo F, Wang GL, Cao DX*. Nickel particles supported on multi-walled carbon nanotubes modified sponge for sodium borohydride electrooxidation. *Electrochemistry Communications*. 2013;35:128-30. (SCI 2区, IF: 4.197)

[10]Zhang DM, Wang B, Cao DX, Ye K, Xu Y, Yin JL, Cheng K, Wang GL*. N₂H₄ electrooxidation at negative potential on novel wearable nano-Ni-MWNTs-textile electrode. *Materials Science and Engineering: B*. 2014;188:48-53. (SCI 2区, IF: 3.507)

[11]Zhang DM, Ye K, Yin JL, Cheng K, Cao DX, Wang GL*. Low-cost and binder-free, paper-based cobalt electrode for sodium borohydride electrooxidation. *New Journal of Chemistry*. 2014;38:5376-81. (SCI 3区, IF: 3.069)

[12]Zhang DM*, Wang B, Yang XY, Zhang JJ, Liu YZ, Wang GL*. A binder-free paper electrode with high performance for NaBH₄oxidation. *New Journal of Chemistry*. 2018;42:48-55. (SCI 3区, IF: 3.069)

[13]Zhang DM, Ye K, Cheng K, Xu Y, Yin JL, Cao DX, Wang GL*. Fabric-based flexible electrode with multi-walled carbon nanotubes@Ni network structure as a novel anode for hydrogen peroxide electrooxidation. *RSC Advances*. 2014;4:17454-60. (SCI 3区, IF: 3.049)

[14] Song CY, Zhang DM*, Wang B, Cai Z, Yan P, Sun Y, Ye K, Cao DX, Cheng K, Wang GL*. Uniformly grown PtCo-modified Co₃O₄nanosheets as a highly efficient catalyst for sodium borohydride electrooxidation. *Nano Research*. 2016;9:3322-33. (SCI 1区, Top期刊, IF: 8.515)

[15] Li BP, Song CY, Zhang DM*, Ye K, Cheng K, Zhu K, Yan J, Cao DX, Wang GL*. Novel self-supported reduced graphene oxide foam-based CoAu electrode: An original anode catalyst for electrooxidation of borohydride in borohydride fuel cell. *Carbon*. 2019;152:77-88. (SCI 1区, Top期刊, IF: 7.466)

[16] Wang B, Zhao J, Zhang DM*, Zhang HQ, Cheng K, Ye K, Zhu K, Yan J, Cao DX, Jiao WZ, Liu YZ, Wang GL*. Three-dimensional porous carbon framework coated with one-dimensional nanostructured polyaniline nanowires composite for high-performance supercapacitors. *Applied Surface Science*. 2019;474:147-53. (SCI 2区, Top期刊, IF: 5.155)

[17] Wang B, Wang GL*, Cao DX, Ye K, Cheng K, Zhu K, Liu YZ, Zhang DM*. A flexible and highly effective paper based gold electrode for sodium borohydride electrocatalysis. *International Journal of Hydrogen Energy*. 2017;42:22814-20. (SCI 2区, Top期刊, IF: 4.084)

[18] Yang XY, Wang GL*, Zhang DM*, Zhang HQ, Yan Q, Zhu M, Ye K, Zhu K, Cheng K, Yan J, Cao DX, Jiao WZ, Liu YZ. Three-dimensional Ni-Co-NiCo₂O₄/NF as an efficient electrode for hydrogen evolution reaction. *International Journal of Hydrogen Energy*. 2019;44:226-32. (SCI 2区, Top期刊, IF: 4.084)

[19] Zhang JJ, Zhang DM*, Cui C, Wang HY, Jiao WZ, Gao J, Liu YZ*. A three-dimensional porous Co-P alloy supported on a copper foam as a new catalyst for sodium borohydride electrooxidation. *Dalton Transactions*. 2019;48:13248-59. (SCI 2区, IF: 4.052)

[20] Cai Z, Zhang DM*, Cheng K, Song CY, Li YJ, Ye K, Yan P, Cao DX, Wang GL*. Platinum Nanoparticles Anchored on TiO₂/C Nanowires as a High Performance Catalyst for Hydrogen Peroxide Electroreduction. *Fuel Cells*. 2016;16:646-51. (SCI 3区, IF: 2.33)

[21] Zhang JJ, Zhang DM*, Liu YZ*. Ni-SiO₂nanoporous composite as an efficient electrocatalyst for the electrooxidation of hydrogen peroxide. *Journal of Materials Science: Materials in Electronics*. 2019;30:13895-909. (SCI 3区, IF: 2.195)

项目:

[1]国家自然科学基金(21703208), 主持, 在研, 30万元

[2]山西省自然科学基金(201701D221047), 主持, 在研, 3万元

[3]山西省高等学校科技创新项目(201802077), 主持, 在研, 1万元

