



1234

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中南大学航天航空学院
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教授

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雷永鹏



雷永鹏

教授 博士生导师
中南大学航空航天学院 航空航天材料系
电子邮件: lypkd@163.com

教育背景

1999.9—2003.6	国防科技大学	本科	学士学位	应用化学
2004.9—2006.12	国防科技大学	研究生	硕士学位	军事化学与烟火技术
2007.3—2011.12	国防科技大学	研究生	博士学位	材料科学与工程

工作经历

2003.7—2004.6	国防科技大学	辅导员
2011.12—2017.3	国防科技大学	讲师
2017.2—至今	中南大学航天航空学院	教授

学术成果

1. 主要学术业绩

长期从事高温结构/功能一体化纤维和先进能源材料的研究工作。先后主持国家自然科学基金、军委科技委国防科技项目基金、基金、航天科技基金、航空科学基金等项目23项,参与国家“863”计划、国家国防基础科研计划等项目4项。协助指导2名硕士生获优秀硕士学位论文2篇,指导本科立项国家级大学生创新项目8项,以一作/通讯作者发表SCI/EI论文50余篇,获授权国家发明专利4项,“Advanced Functional Materials”等20余种国际SCI期刊的审稿人。

博士论文获2014年度湖南省优秀博士学位论文,入选学院青年拔尖人才,获国防科大首届“青年创新奖”(2016),立三等功

3. 主要学术论文 (一作/通讯作者SCI论文, 按时间倒序)

- [36] Jia Song, Jing Wang*, Xiaoyu Lin, Jingfu He, Hualoi Liu, Yongpeng Lei*, Zengyong Chu, Black phosphorus/TiO₂ core-shell photoanode with enhanced photoelectrical performance, *ChemElectroChem*, 2017, DOI: 10.1002/celec.201700220 (SCI一区, IF: 1.76)
- [35] Zhiyan Chen, Yishang Wu, Qichen Wang, Zhi-Yong Wang, Lihua He, Yongpeng Lei*, Zhongmin Wang*, Oxygen-rich carbon quantum dots as cocatalysts for enhanced photocatalytic H₂ production activity of TiO₂ nanofibers, *Progress in Materials Science: Materials International*, 2017, DOI: 10.1016/j.pmsci.2017.04.011 (SCI一区, IF: 1.76)
- [34] Nan Wu, Yongpeng Lei*, Qichen Wang, Bing Wang, Cheng Han, Yingde Wang*, Facile synthesis of FeCo@C core-shell supported on graphene as an efficient bifunctional oxygen electrocatalyst, *Nano Research*, 2017, 10, 2332-2343. (SCI一区, IF: 1.76)
- [33] Qichen Wang, Zhiyan Chen, Nan Wu, Bing Wang, Wei He, Yongpeng Lei*, Yingde Wang*, N-doped 3D carbon aerogel with efficient catalyst for oxygen reduction reaction, *ChemElectroChem*, 2017, 4, 514-520. (SCI一区, IF: 3.5)
- [32] Yixuan Wang, Yongpeng Lei*, Huaping Wang, Astridia velutina-like S, N-codoped hierarchical porous carbon from for superior oxygen reduction reaction, *RSC Advances*, 2016, 6, 73560-73565. (SCI一区, IF: 3.3)
- [31] Yongpeng Lei*, Qi Shi, Cheng Han, Bing Wang, Nan Wu, Hong Wang, Yingde Wang*, N-doped graphene grown on silk interconnected carbon fibers for oxygen reduction reaction and photocatalytic hydrogen production, *Nano Research*, 2016, 9(2):2498-2509. (SCI一区TOP, IF: 8.9)
- [30] Nan Wu, Yingde Wang*, Yongpeng Lei*, Electrospun interconnected Fe-N/C nanofiber networks as efficient electrocatalyst for oxygen reduction reaction in acidic media, *Scientific Reports*, 2015, 17396. (SCI一区, IF: 5.2)
- [29] Qi Shi, Yingde Wang*, Zhongmin Wang, Yongpeng Lei*, Bing Wang, Nan Wu, Cheng Han, Song Xie, Yanzi Gou, 3D interconnected networks constructed by in situ growth of N-doped graphene/carbon nanotubes on cobalt-containing carbon nanofibers for enhanced oxygen reduction, *Nano Research*, 2016, 9(2):317-328. (SCI一区TOP, IF: 8.9)
- [28] Yixuan Zhou, Yongpeng Lei (co-first author), Dingsheng Wang*, Chen Chen, Qing Peng, Yadong Li, Ultra-thin Cu₂S nanofibers as effective cocatalysts for photocatalytic hydrogen production, *Chemical Communication*, 2015, 51(68): 13305-13308. (SCI一区, IF: 6.6)
- [27] Bing Wang, Yingde Wang*, Yongpeng Lei*, Song Xie, Nan Wu, Yanzi Gou, Cheng Han, Qi Shi, Dong Fang. Vertical SnO₂ nanosheets@SiC nanofibers with hierarchical architecture for high-performance gas sensors, *Journal of Materials Chemistry C*, 2016, 4, 295-304. (SCI一区TOP, IF: 5.0)
- [26] Song Xie, Yingde Wang*, Yongpeng Lei*, Bing Wang, Nan Wu, Yanzi Gou and Dong Fang, A simply prepared flexible ultrafine fiber mat with enhanced high-temperature stability and chemical resistance, *RSC Advances*, 2015, 5(80): 13305-13308. (SCI一区, IF: 3.3)
- [25] Qi Shi, Yongpeng Lei*, Yingde Wang*, Huaping Wang, Lihua Jiang, Hongliang Yuan, Dong Fang, Bing Wang, Nan Wu, Y N-codoped 3D micro-/mesoporous carbon nanofibers web as efficient metal-free catalysts for oxygen reduction, *Cu Physics*, 2015, 15, 1606-1614. (SCI一区, IF: 2.1)
- [24] 施旗, 雷永鹏*, 王应德, 氮掺杂石墨烯@碳纳米纤维的原位制备及其电催化氧还原性能, *无机材料学报*, 2016, 31, 351-357. (SCI一区, IF: 3.3)
- [23] Bing Wang, Yingde Wang*, Yongpeng Lei*, Nan Wu, Yanzi Gou, Cheng Han, Song Xie, Dong Fang, Mesoporous silicon nanofibers with in situ embedded carbon for co-catalyst free photocatalytic hydrogen production, *Nano Research*, 2016, 9(2): 886-898. (SCI一区TOP, IF: 8.9)
- [22] Cheng Han, Yingde Wang*, Yongpeng Lei*, Bing Wang, Modification of hierarchically porous SiC ultrafine fibers nitrogen-containing surface, *Ceramics International*, 2016, 42(4), 5368-5374. (SCI一区, IF: 2.8)
- [21] Bing Wang, Yingde Wang*, Yongpeng Lei*, Nan Wu, Yanzi Gou, Cheng Han. Tailoring of porous structure in macro-/mesoporous SiC ultrathin fibers via electrospinning combined with polymer-derived ceramics route, *Materials and Manufacturing Processes*, 2015, 31, 1357-1365. (SCI一区, IF: 1.4)
- [20] Yingde Wang*, Bing Wang, Yongpeng Lei*, Nan Wu, Cheng Han, Yanzi Gou, Dong Fang, Scalable in situ growth of SnO₂ nanoparticle chains on SiC ultrathin fibers via a facile sol-gel-flame method, *Applied Surface Science*, 2015, 312, 212. (SCI一区, IF: 3.2)
- [19] Cheng Han, Yingde Wang*, Yongpeng Lei*, Bing Wang, Nan Wu, Qi Shi, Qiong Li. In situ synthesis of g-C₃N₄ nanosheet hybridized N-doped TiO₂ nanofibers for efficient photocatalytic H₂ production and degradation, *Nano Research*, 2015, 8(11): 1199-1209. (SCI一区TOP, IF: 8.9)
- [18] Bing Wang, Yingde Wang*, Yongpeng Lei*, Nan Wu, Yanzi Gou, Cheng Han, Dong Fang. Hierarchically porous SiC ultrathin fiber mat with enhanced mass transport, amphiphilic property and high-temperature erosion resistance, *Journal of Materials Chemistry A*, 2014, 2(48), 20873-20881. (SCI一区TOP, IF: 8.3)

- [17] Yingde Wang*, Cheng Han, Dechuan Zheng, **Yongpeng Lei***, Large-scale, flexible and high-temperature resistant Zr ultrafine fibers with radially gradient composition, *Journal of Materials Chemistry A*, 2014, 2, 9607-9612. (SCI 8.3)
- [16] Nan Wu, Yingde Wang*, **Yongpeng Lei***, Bing Wang, Cheng Han. Flexible N-doped TiO₂/C ultrafine fiber mat and its photocatalytic activity under simulated sunlight. *Applied Surface Science*, 2014, 319, 136-142. (SCI二区, IF: 3.2)
- [15] Nan Wu, Yingde Wang*, **Yongpeng Lei***, Bing Wang. Preparation and photocatalytic activity of N-Ag co-doped TiO₂/ultrafine fibers mat. *Ceramics International*, 2014, 40(1), Part B, 2017-2022. (SCI二区, IF: 2.8)
- [14] **Yongpeng Lei**, Yingde Wang, Yongcai Song. Atmosphere influence in the pyrolysis of poly[(alkylamino)borazine] in production of BN fibers, *Ceramics International*, 2013, 39: 6847-6851. (SCI一区, IF: 2.8)
- [13] **Yongpeng Lei**, Yingde Wang, Jingen Xue, Yongcai Song. Influence of pyrolysis conditions on fabrication of polymer fiber for wave transparent application, *Composites: Part B*, 2013, 51: 251-259. (SCI一区TOP, IF: 3.9)
- [12] **Yongpeng Lei**, Yingde Wang, Yongcai Song. Effect of temperature on the composition and properties of poly[(alkylamino)borazine] to boron nitride, *Journal of Macromolecular Science, Part B*, 2013, 52(10): 1427-1437. (SCI四区, IF: 0.6)
- [11] **Yongpeng Lei**, Yingde Wang, Yongcai Song, Cheng Deng. A novel liquid poly[(alkylamino)borazine] for Boron Nitride and Manufacturing Processes, 2013, 28(1): 14-18 (SCI二区, IF: 1.4)
- [10] **Yongpeng Lei**, Yingde Wang, Yongcai Song. Boron nitride by pyrolysis of the melt-processable poly[tris(methylamino)borazine], structure, composition and oxidation resistance, *Ceramics International*, 2012, 38(1): 271-276. (SCI一区, IF: 2.8)
- [9] **Yongpeng Lei**, Yingde Wang, Yongcai Song, Cheng Deng. Pyrolysis behavior of poly(*n*-propylamino/methylamino)borazine, *Ceramics International*, 2012, 38(6): 4745-4749. (SCI一区, IF: 2.8)
- [8] **Yongpeng Lei**, Yingde Wang, Yongcai Song. Evolution of crystallization during pyrolysis of poly[(alkylamino)borazine], *Metal Materials and Engineering*, 2012, 41(S3): 5-8. (SCI四区)
- [7] **Yongpeng Lei**, Yingde Wang, Yongcai Song. Ammonia curing behavior of poly[(alkylamino)borazine] fiber, *Materials*, 2012, 71: 91-93. (SCI一区, IF: 2.4)
- [6] **Yongpeng Lei**, Yingde Wang, Yongcai Song, Cheng Deng, Hao Wang. Nearly stoichiometric BN fiber by curing and the novel poly[(alkylamino)borazine], *Ceramics International*, 2011, 37(6): 1795-1800. (SCI一区, IF: 2.8)
- [5] **Yongpeng Lei**, Yingde Wang, Yongcai Song, Cheng Deng. Novel processable precursor for BN by the polymer-derived route, *Ceramics International*, 2011, 37(8): 3005-3009. (SCI一区, IF: 2.8)
- [4] **Yongpeng Lei**, Yingde Wang, Yongcai Song, Hao Wang, Zhengfang Xie, Cheng Deng. Effect of molecular monomer structure on the composition and properties of BN via the preceramic polymer route, *Materials Letters*, 2011, 65(7): 1111-1113. (SCI二区, IF: 2.4)
- [3] **Yongpeng Lei**, Yingde Wang, Yongcai Song, Yihe Li, Cheng Deng, Hao Wang, Zhengfang Xie. Nearly stoichiometric BN with low dielectric constant derived from poly[(alkylamino)borazine]. *Materials Letters*, 2011, 65(2): 157-159. (SCI一区, IF: 2.4)
- [2] 雷永鹏, 王应德, 宋永才, 李义和, 王浩, 邓橙, 谢征芳. 聚异丙胺基环硼氮烷热解制备氮化硼及其抗氧化与介电性能. *高等学校化学学报*, 2011, 32(5): 1188-1193. (SCI二区)
- [1] **Yongpeng Lei**, Yingde Wang, Yongcai Song, Yihe Li, Hao Wang, Cheng Deng, Zhengfang Xie. Facile synthesis of a melt-spinnable polyborazine from asymmetric alkylaminoborazine, *Chinese Chemical Letters*, 2010, 21(9): 1079-1082. (SCI一区, IF: 1.9)

学术奖励

- 1 湖南省优秀博士学位论文作者 2014
- 2 国防科技大学优秀硕士学位论文协助指导老师 2015
- 3 国防科技大学首届青年创新奖 二等奖 2016
- 4 全军优秀硕士学位论文协助指导老师 2016

上一篇: 杨德贵

下一篇: 刘梅

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