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杨建

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籍贯: 宁夏 职称: 教授 博导
Email: yangjian1976@163.com 学历: 博士研究生

学缘情况(含国外访学)和工作经历:

起止时间	学校或工作单位	身份(职务/职称)
1993.8-1997.7	东北大学	本科生, 获工学学士学位
1997.8-2004.4	东北大学	硕博连读研究生, 获工学博士学位
2004.4-2006.7	南京工业大学	博士后
2006.7-2014.8	南京工业大学	教师(副教授/2011.11-无机系副主任)
2013.9-2014.9	美国德雷塞尔大学	江苏省公派访问学者
2014.8-	南京工业大学	教师(教授)

研究方向及科研情况简介:

主要从事结构-功能一体化复合材料的应用基础研究, 研究方向: 三元层状可加工陶瓷、微波透过陶瓷材料、微波衰减材料、二维过渡族金属碳化物。先后承担了国家自然科学基金、863、军品配套、江苏省自然科学基金、辽宁省自然科学基金、江苏省高技术招标、江苏省博士后科研资助计划、江苏省高校自然科学基金、高性能陶瓷和超微结构国家重点实验室开放课题等项目。在 *PVAS*, *J Am Ceram Soc*, *J Eur Ceram Soc*, *Chem Comm*, *Corros Sci*, *Ceram Int*, *J Alloy Compd*, *Mater Lett*, *Wear*, *Adv Eng Mater*, *Chin Phys Lett* 等权威杂志上发表130余篇学术论文(SCI收录50余篇, EI收录80余篇), 获发明专利授权16项, 有5项科技成果通过省部级鉴定, 获国防科学技术三等奖1项, 参与制定国家军用标准1项。与中科院上海硅酸盐研究所、中国工程物理研究院建立了长期、稳定的合作关系。

学术兼职:

江苏省硅酸盐学会理事、青年工作委员会委员

江苏省硅酸盐学会特种陶瓷专业委员会副主任委员

中国稀土学会玻璃陶瓷专业委员会委员

承担科研项目情况: (重要基础项目、产学研项目)

1. $\times\times\times\times\times\times\times$ 氧化铝工程化研制, 国防科工局军品配套项目, 2016.7-2019.12, 负责人
2. $\times\times\times\times\times\times\times$ 枪壳材料, 国防科工局军品配套项目, 2012.7-2016.3, 负责人
3. 大功率 $\times\times\times\times\times\times\times$ 材料, 国防科工局军品配套项目, 2011.7-2015.6, 负责人
4. 多元协同结构(ZrB_2+SiC)/ $Zr_2[Al(Si)]_4C_5$ 超高温复相陶瓷的原位制备及性能研究, 江苏省基础研究计划(自然科学基金)项目, 2011.10-2014.9, 负责人
5. 真空电子器件用 $\times\times\times\times\times\times\times$ 陶瓷杆, 国防科工局军品配套项目, 2011.7-2014.6, 第二负责人
6. 毫米波 $\times\times\times\times\times\times\times$ 材料, 国防科工局军品配套项目, 2010.7-2014.6, 第二负责人
7. 高强度 $\times\times\times\times\times\times\times$, 国防科工委民口配套项目, 2007.7-2011.10, 第二负责人
8. AlN基复合 $\times\times\times\times\times\times\times$ 材料规范, 中石化联合会国家军用标准制定, 2010.9-2013.10, 第二负责人
9. 原位制备(ZrB_2+SiC)协同强化 $Zr_2[Al(Si)]_4C_5$ 超高温复相陶瓷及其性能研究, 中科院上海硅酸盐研究所高性能陶瓷和超微结构国家重点实验室开放课题, 2012.1-2013.12, 负责人

10. 原位TiN(TiO₂)复合的功能化O²⁻ 塞隆的制备与性能研究, 国家自然科学基金项目, 2003.1-2005.12, 技术负责人

代表论著:

1. Yang Jian, Naguib Michael, Ghidiu Michael, Pan Li-Mei, Gu Jian, Nanda Jagjit, Ilalim Joseph, Gogotsi Yury, Barsoum Michel W.*. Two-Dimensional Nb-based M₄C₃ Solid Solutions (MXenes). *Journal of the American Ceramics Society*, 2016, 99(2): 660-666.
2. Yu Lei, Yang Jian*, Qiu Tai, Zhang Jingxian, Pan Limei. Microstructure, Mechanical, and Thermal Properties of (ZrB₂ + ZrC)/Zr₃[Al(Si)]₄C₆ Composite. *Journal of the American Ceramic Society*. 2014, 97(9): 2950-2956.
3. Gu Jian, Pan Limei, Yang Jian*, Yu Lei, Zhang Haibin, Zou Wenjie, Xu Canhui, Hu Chunfeng, Qiu Tai. Mechanical properties and oxidation behavior of Ti-doped Nb₄AlC₃. *Journal of the European Ceramic Society*. 2016, 36(4): 1001-1008.
4. Ling Zheng, Ren Chang E, Zhao Meng-Qiang, Yang Jian, Giammarco James M, Qiu Jieshan, Barsoum Michel W, Gogotsi Yury*. Flexible and conductive MXene films and nanocomposites with high capacitance. *Proceedings of the National Academy of Sciences of the United States of America*, 2014, 111(47): 16676-16681.
5. Ghidiu Michael, Naguib Michael, Shi Chenyang, Mashtalir Olha, Pan Limei, Zhang Bo, Yang Jian*, Gogotsi Yury, Billinge Simon J. L., Barsoum Michel W*. Synthesis and characterization of two-dimensional Nb₄C₃ (MXene). *Chemical Communications*, 2014, 50(67): 9517-9520.
6. Wan Wei, Feng Yongbao*, Yang Jian*, Bu Wenbo, Qiu Tai. Microstructure, mechanical and high-temperature dielectric properties of zirconia-reinforced fused silica ceramics. *Ceramics International*, 2016, 42(5): 6436-6443
7. Wan Wei, Feng Yongbao*, Yang Jian*, Bu Wenbo, Qiu Tai. Effect of trace alumina on mechanical, dielectric, and ablation properties of fused silica ceramics. *Journal of Alloys and Compounds*, 2016, 675: 64-72
8. Yu Lei, Yang Jian*, Qiu Tai, Pan Limei. The thermal shock behavior of Zr₃[Al(Si)]₄C₆ and in situ (ZrB₂+ZrC)/Zr₃[Al(Si)]₄C₆ composite. *Journal of Alloys and Compounds*, 2014, 613: 249-252.
9. Yang Jian*, Guo Dongdong, Yu Lei, Pan Limei, Qiu Tai, Zhang Jingxian. In situ synthesis, microstructure, mechanical properties and thermal shock resistance of (ZrB₂+ SiC)/Zr₂[Al(Si)]₄C₅ composites. *International Journal of Refractory Metals and Hard Materials*, 2014, 46: 101-108.
10. Yang Jian, Pan Limei, Gu Wei, Qiu Tai, Zhang Yuzhe, Zhu Shemin. Microstructure and mechanical properties of in situ synthesized (TiB₂+TiC)/Ti₃SiC₂ composites. *Ceramics International*, 2012, 38(1): 649-655.
11. Yang Jian, Pan Limei, Gu Wei, Gu Xiabin, Song Kai, Qiu Tai, Zhu Shemin. Oxidation behavior and kinetics of in situ (TiB₂+TiC)/Ti₃SiC₂ composites in air. *Ceramics International*, 2012, 38(1): 159-168.
12. Yang Jian, Gu Wei, Pan Limei, Song Kai, Chen Xing, Qiu Tai. Friction and wear properties of in situ (TiB₂+TiC)/Ti₃SiC₂ composites. *Wear*, 2011, 271(11-12): 2940-2946.
13. Guo Dongdong, Yang Jian*, Yu Lei, Pan Limei, Qiu Tai, Zhang Jinxian. Microstructure, mechanical, and thermal properties of in situ-synthesized (ZrB₂+ SiC)/Zr₂[Al(Si)]₄C₅ composites. *Ceramics International*, 2013, 39(7): 8559-8563.
14. Wan Wei, Yang Jian*, Feng Yongbao*, Qiu Tai. Low-toxic gelcasting of bulk porous silica with bi-modal pore structure and its application in TiO₂ photocatalysts. *Materials Letters*, 2015, 160: 120-123
15. Song Kai, Yang Jian*, Qiu Tai, Pan Limei. In situ synthesis of (TiB₂+ SiC)/Ti₃SiC₂ composites by hot pressing. *Materials Letters*, 2012, 75: 16-19.
16. Yu Lei, Feng Yongbao, Yang Jian*, Qiu Tai, Pan Limei. Mechanical and thermal physical properties, and thermal shock behavior of (ZrB₂+ SiC) reinforced Zr₃[Al(Si)]₄C₆ composite prepared by in situ hot-pressing. *Journal of Alloys and Compounds*, 2015, 619: 338-344.
17. Jin Cancan, Wang Taibao, Pan Limei, Yang Jian*, Hu Chunfeng, Qiu Tai. Preparation and properties of sintering additive-free AlN

- BN composite ceramics by hot-pressing sintering. *Journal of Materials Science: Materials in Electronics*, 2016, 27: 2014-2021
18. Wang Taibao, Jin Cancan, Yang Jian*, Hu Chunfeng*, Qiu Tai. Physical and mechanical properties of hexagonal boron nitride ceramic fabricated by pressureless sintering without additive. *Advances in Applied Ceramics*, 2015, 114(5): 273-276
19. Yao Lichun, Qiu Tai, Wan Wei, Yang Jian*. Microstructure and microwave dielectric properties of $x\text{Sm}(\text{Mg}_{0.5}\text{Ti}_{0.5})_{0-3-(1-x)}\text{Ca}_{0.8}\text{Sr}_{0.2}\text{TiO}_3$ ceramics. *Journal of Materials Science: Materials in Electronics*, 2014, 25(9): 4046-4050.
20. Yang Jian, Qiu Tai, Shen Chunying. New BCN fibers: Showing Strong Ultraviolet and Visible Light Luminescence. *Chinese Physics Letters*, 2006, 23(9): 2573-2575
21. Yang Jian, Xue Xiangxin, Xie Peng, et al. Preparation of In-situ TiO_2/O' -Sialon Multiphase Ceramics by Selective-oxidation. *Ceramics International*, 2006, 32(5): 533-538
22. Yu Lei, Yang Jian, Qiu Tai*, Guo Dongdong, Pan Limei, Zhang Jinxian. Microstructure and mechanical properties of $(\text{ZrB}_2+\text{ZrC})/\text{Zr}_3[\text{Al}(\text{Si})_4\text{C}_6]$ composites prepared by in situ hot-pressing. *Materials Letters*, 2013, 96: 188-191.
23. Tallman Darin J., Yang Jian, Pan Limei, Anasori Babak, Barsoum Michel W. Reactivity of Zircaloy-4 with Ti_3SiC_2 and Ti_2AlC in the 1100-1300°C temperature range. *Journal of Nuclear Materials*, 2015, 460: 122-129.
24. Wan Wei, Feng Yongbao, Yang Jian, Xu Shuang, Qiu Tai*. Preparation of mesoporous silica ceramics with relatively high strength from industrial wastes by low-toxic aqueous gel-casting. *Journal of the European Ceramic Society*, 2015, 35(7): 2163-2170.
25. Hu Chunfeng, Lai Chungchuan, Tao Quanzheng, Lu Jun, Halim Joseph, Sun Luchao, Zhang Jie, Yang Jian, Anasori Babak, Wang Jingyang, Sakka Yoshio, Hultman Lars, Eklund Per, Rosen Johanna, Barsoum Michel W. $\text{Mo}_2\text{Ga}_2\text{C}$: a new ternary nanolaminated carbide. *Chemical Communications*, 2015, 51(30), 6560-6563.
26. Wan Wei, Yang Jian, Qiu Tai*, Huang Chun-e. Study on Gelcasting of Fused Silica Glass Using Glutinous Rice Flour as Binder. *International Journal of Applied Glass Science*, 2014, 5(4): 401-409.
27. Zeng Jinzhen, Yang Jian, Wan Wei, Liu Xianglong, Qiu Tai*. Effect of Al_2O_3 particle size on preparation and properties of ZTA ceramics formed by gelcasting. *Ceramics International*, 2014, 40(4): 5333-5338.
28. Wan Wei, Yang Jian, Zeng Jinzhen, Yao Lichun, Qiu Tai*. Aqueous gelcasting of silica ceramics using DMAA. *Ceramics International*, 2014, 40(1): 1257-1262.
29. Wan Wei, Yang Jian, Zeng Jinzhen, Yao Lichun, Qiu Tai*. Effect of solid loading on gelcasting of silica ceramics using DMAA. *Ceramics International*, 2014, 40(1): 1735-1740.
30. Wan Wei, Yang Jian, Zeng Jinzhen, Qiu Tai. Gelcasting of fused silica glass using a low-toxicity monomer DMAA. *Journal of Non-Crystalline Solids*, 2013, 379: 229-234.
31. Yang Jian, Xue Xiangxin, Xie Peng, Liu Xin, Wang Wenzhong. Electric Conductivity of In-situ TiN/O' -Sialon Multiphase Nano Ceramics. *Advanced Engineering Materials*, 2003, 5(9): 658-663

授权发明专利:

1. 一种钛硅化碳/二硼化钛-碳化钛复合材料及其制备方法, ZL200910027762. X.
2. 一种铈铝化碳-碳化铈复合材料及其制备方法, ZL201410040040. 9.
3. 一种铈钛铝固溶体陶瓷材料及其制备方法, ZL201410319052.
4. $(\text{TiB}_2+\text{TiC})/\text{Ti}_3\text{SiC}_2$ 复相陶瓷材料及其制备方法, ZL200910027763. 4.
5. 一种原位 $(\text{TiB}_2+\text{SiC})/\text{Ti}_3\text{SiC}_2$ 复相陶瓷材料及其制备方法, ZL201110024117. X.
6. 一种锆铝硅碳-硼化锆-碳化硅复合材料及其制备方法, ZL201210260714. 7.
7. $(\text{ZrB}_2+\text{ZrC})/\text{Zr}_3[\text{Al}(\text{Si})_4\text{C}_6]$ 复相陶瓷材料及其制备方法, ZL201210259673. X.
8. 一种致密氮化铝-氮化硼复合材料的制备方法, CN201510028830. X

9. 一种无压烧结制备高纯六方氮化硼陶瓷的方法, ZL201410422994. 6.
10. 低毒凝胶体系注凝成型熔融石英陶瓷的方法, ZL201210531925. X.
11. 一种氧化锆陶瓷的制备方法, ZL201010552565. 2.
12. 抗水解AlN粉末的制备方法, ZL200910029932. 8.

发表论著（高水平代表性论文）：

Ling Zheng, Ren Chang E, Zhao Meng-Qiang, Yang Jian, Giammarco James M, Qiu Jieshan, Barsoum Michel W, Gogotsi Yury*. Flexible and conductive MXene films and nanocomposites with high capacitance. *Proceedings of the National Academy of Sciences of the United States of America*, 2014, 111(47): 16676-16681.

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