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许杰

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基本信息 The basic information

姓名: 许杰

学院: 材料学院

学历: 博士研究生毕业

学位:

工学博士

职称: 副教授

职务:

学科:

邮箱: xujie@nwpu.edu.cn

工作经历 Work Experience

电话:

材料科学与工程-材料学

2016.9至今 西北工业大学材料学院 准聘副教授

2015.9-2016.3 英国伯明翰大学冶金与材料学院 访问学者

2014.7-2016.8 清华大学材料学院 博士后

教育经历 Education Experience

2010.9-2014.7 清华大学材料学院 工学博士

2007.9-2010.8 中国建筑材料科学研究总院 工学硕士

2003.9-2007.7 西北工业大学材料学院 工学学士

教育教学 Education And Teaching

担任研究生全英文课程《Microstructure Analysis of Advanced Materials》主讲教师。

荣誉获奖 Awards Information

2017 优秀本科毕设指导教师

科学研究 Scientific Research

主要研究方向为：特种陶瓷粉体制备及应用；先进陶瓷胶态成型工艺；多孔功能陶瓷材料（隔热、过滤、介电可调）。主持国家自然科学基金青年项目、装备预研领域基金、中国博士后科学基金（特别资助及一等资助）、深圳市基础研究基金（自由探索）、中央高校基本科研业务基金、新型陶瓷与精细工艺国家重点实验室开放课题等8项，作为研究骨干参与国家自然科学基金、国家重点研发计划、863计划、科技部国际合作项目及英国EPSRC项目等10余项。

学术成果 Academic Achievements

已经在包括 *Journal of the American Ceramic Society*, *Journal of the European Ceramic Society*, *Chemical Communications*, *Composites Science and Technology*, *Journal of Materials Science*, *Ceramics International* 等国内外期刊发表学术论文50余篇，其中SCI收录45篇，EI收录4篇；申请国家发明专利17项，其中授权12项。

2018年

Wenlong Huo, Xiaoyan Zhang, Ke Gan, Yugu Chen, **Jie Xu***, Jinlong Yang*, Effect of zeta potential on properties of foamed colloidal suspension, *Journal of the European Ceramic Society*, <https://doi.org/10.1016/j.jeurceramsoc.2018.08.035>. (<https://doi.org/10.1016/j.jeurceramsoc.2018.08.035>.)

Li Wang, Feng Gao, **Jie Xu**, Kena Zhang, Jie Kong, Mike Reece, Haixue Yan, Enhanced dielectric tunability and energy storage properties of plate-like Ba_{0.6}Sr_{0.4}TiO₃/poly(vinylidene fluoride) composites through texture arrangement, *Composites Science and Technology*, 158 [12] 112–120 (2018).

Yiting Guo, Feng Gao, Jie Xu, Qian Chen, Shuyao Cao, Leilei Li, Fabrication and properties of $(K_{0.52}Na_{0.48})NbO_3$ - $KSr_2Nb_5O_{15}$ lead-free ferroelectric composite ceramics, *Journal of Materials Science: Materials in Electronics*, 29 [4] 12503–12511 (2018).

An-Nan Chen, Meng Li, Jie Xu, Chen-Hua Lou, Jia-Min Wu, Li-Jin Cheng, Yu-Sheng Shi, Chen-Hui Li, High-porosity mullite ceramic foams prepared by selective laser sintering using fly ash hollow spheres as raw materials, *Journal of the European Ceramic Society*, 38 [13] 4553–4559 (2018).

Leilei Li, Jie Xu, Junting Liu, Feng Gao, Recent progress on piezoelectric energy harvesting: structures and materials, *Advanced Composites and Hybrid Materials*, <https://doi.org/10.1007/s42114-018-0046-1>.

Qian Chen, **Jie Xu**, Shuyao Cao, Maosen Fu, Min Wang, Feng Gao, Anisotropy optical properties of $KSr_2Nb_5O_{15}$ lead-free ferroelectrics: First-principle calculations, *Journal of Physics and Chemistry of Solids*, 122, 130–136 (2018).

Chuying Yu, Yang Zeng, Bin Yang, Richard Wylde, Robert Donnan, Jiyue Wu, **Jie Xu**, Feng Gao, Isaac Abrahams, Mike Reece, Haixue Yan, $SrFe_{12}O_{19}$ based ceramics with ultra-low dielectric loss in the millimetre-wave band, *Applied Physics Letters*, 112, 143501 (2018).

2017年

Ke Gan, **Jie Xu***, Yuju Lu, Xiaoyan Zhang, Wenlong Huo, Jinlong Yang*. Preparation of silicon carbide ceramics using chemical treated powder by DCC via dispersant reaction and liquid phase sintering, *Journal of the European Ceramic Society*, 37 [3] 891–897 (2017).

Ke Gan, **Jie Xu***, Yan-Jiao Gai, Jia-Min Wu, Shi-Ji Li, Yu-Ju Lu, Wen-Long Huo, Xiao-Yan Zhang, Jin-Long Yang*. In-situ coagulation of yttria-stabilized zirconia suspension via dispersant hydrolysis using sodium tripolyphosphate. *Journal of the European Ceramic Society*, 37 [15] 4868–4875 (2017).

Jinlong Yang, **Jie Xu***, Yali Wang, Ke Gan. Highly reliable yttria-stabilized zirconia prepared by direct coagulation casting-high valence counter ions using calcium polyphosphate, *International Journal of Applied Ceramic Technology*, 14 [5] 866–872 (2017).

Jinlong Yang, Ke Gan*, Shiji Li, Yanjiao Gai, Zaijuan Zhang, Shu Yan, Yugu Chen, Xiaoyan Zhang, Yuju Lu, **Jie Xu***. Temperature induced gelation of non-aqueous alumina suspension using oleic acid as dispersant, *Ceramics International*, 43 [14] 11361–11366 (2017).

2016年

Jie Xu, Minghao Yang, Ke Gan, Yanan Qu, Xiaoyan Zhang, Ning Ma, Yali Wang, Jinlong Yang. Enhanced piezoelectric properties of PZT ceramics prepared by direct coagulation casting via high valence counterions (DCC-HVCI), *Ceramics International*, 42 [2] 2821–2828 (2016).

Jie Xu, Minghao Yang, Ke Gan, Yanan Qu, Ning Ma, Yali Wang, Jinlong Yang. Reliable high strength alumina fabricated by DCC-HVCI using submicron calcium citrate complex, *Ceramics International*, 42 [7] 8030–8037 (2016).

Wen-Long Huo, Fei Qi, Xiao-Yan Zhang, Ning Ma, Ke Gan, Ya-Nan Qu, **Jie Xu***, Jin-Long Yang*. Ultralight alumina ceramic foams with single-grain wall using sodium dodecyl sulfate as long-chain surfactant, *Journal of the European Ceramic Society*, 36 [16] 4163–4170 (2016).

Wen-Long Huo, Xiao-Yan Zhang, Yu-Gu Chen, Yu-Ju Lu, Wen-Ting Liu, Xiao-Qing Xi, Ya-Li Wang, **Jie Xu***, Jin-Long Yang*. Highly porous zirconia ceramic foams with low thermal conductivity from particle-stabilized foams, *Journal of the American Ceramic Society*, 99 [11] 3512–3515 (2016).

Ke Gan, **Jie Xu***, Xiaoyan Zhang, Wenlong Huo, Minghao Yang, Yanan Qu, Jinlong Yang*. Direct coagulation casting of silicon nitride suspension via dispersant reaction method, *Ceramics International*, 42 [3] 4347–4353 (2016).

Minghao Yang, **Jie Xu***, Ke Gan, Yanan Qu, Ning Ma, Xiuhui Wang, Jinlong Yang*. Direct coagulation casting of alumina via controlled release of calcium from ammonium polyphosphate chelate complex, *Journal of Materials Research*, 31 [1] 154–162 (2016).

Jinlong Yang, **Jie Xu**, Yanan Qu, Ke Gan, Minghao Yang. Direct coagulation casting of ceramics suspensions via controlled release of high valence counterions (DCC-HVCI), *ICCP-13*, invited presentation, Nara, Japan, 2016.

Yanan Qu, **Jie Xu**, Zhenguo Su, Ning Ma, Xiaoyan Zhang, Xiaoqing Xi, Jinlong Yang. Lightweight and high-strength glass foams prepared by a novel green spheres hollowing technique, *Ceramics International*, 42 [2] 2370–2377 (2016).

Yanan Qu, Zhenguo Su, **Jie Xu**, Wenlong Huo, Kuicun Song, Yali Wang, Jinlong Yang. Preparation of ultralight glass foams via vacuum-assisted foaming, *Materials Letters*, 166, 35–38 (2016).

Na Li, Xiao-Yan Zhang, Ya-Nan Qu, Jie Xu, Ning Ma, Ke Gan, Wen-Long Huo, Jin-Long Yang, A simple and efficient way to prepare porous mullite matrix ceramics via directly sintering SiO₂-Al₂O₃ microspheres, *Journal of the European Ceramic Society*, 36 [11] 2807–2812 (2016).

Xiao-Yan Zhang, Wen-Long Huo, Fei Qi, Ya-Nan Qu, **Jie Xu**, Ke Gan, Ning Ma, Jin-Long Yang. Ultralight silicon nitride ceramic foams from foams stabilized by partially hydrophobic particles, *Journal of the American Ceramic Society*, 99 [9] 2920–2926 (2016).

Ning Ma, Yiqun Deng, Wenting Liu, Shiji Li, **Jie Xu**, Yanan Qu, Ke Gan, Xiaodan Sun, Jinlong Yang. One-step synthesis of hollow periodic mesoporous organosilica spheres with radially oriented mesochannels, *Chemical Communications*, 52 [17] 3544–3547 (2016).

2015年

Jie Xu, Ke Gan, Minghao Yang, Yanan Qu, Jiamin Wu, Jinlong Yang. Direct coagulation casting of yttria[?] stabilized zirconia using magnesium citrate and glycerol diacetate, *Ceramics International*, 41 [4] 5772–5778 (2015).

Jie Xu, Yanxue Zhang, Ke Gan, Xiaoyan Zhang, Yanan Qu, Ning Ma, Jinlong Yang. A novel gelcasting of alumina suspension using curdlan gelation, *Ceramics International*, 41 [9] 10520–10525 (2015).

Jia-Min Wu, Xiao-Yan Zhang, **Jie Xu**, Ke Gan, Jia-Lu Li, Chen-Hui Li, Jin-Long Yang, Yu-Sheng Shi. Preparation of porous Si₃N₄ ceramics via tailoring solid loading of Si₃N₄ slurry and Si₃N₄ poly-hollow microsphere content, *Journal of Advanced Ceramics*, 4[4] 260–266 (2015).

2014年及以前

Jie Xu, Yanxue Zhang, Yanan Qu, Fei Qi, Xiaoyan Zhang, Jinlong Yang. Direct coagulation casting of alumina suspension from calcium citrate assisted by pH shift, *Journal of the American Ceramic Society*, 97 [4] 1048–1053 (2014).

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Yanxue Zhang, **Jie Xu**, Yanan Qu, Xiaoqing Xi, Jinlong Yang. Gelcasting of alumina suspension using gellan gum as gelling agent, *Ceramics International*, 40 [4] 5715–5721 (2014).

Yanan Qu, **Jie Xu**, Xiaoqing Xi, Chengjie Huang, Jinlong Yang, Microstructure characteristics of blue[?] and[?] white porcelain from the folk kiln of Ming and Qing Dynasties, *Ceramics International*, 40 [6] 8783–8790 (2014).

Fei Qi, Xingxing Xu, **Jie Xu**, Yali Wang, Jinlong Yang. A novel way to prepare hollow sphere ceramics, *Journal of the American Ceramic Society*, 97 [10] 3341–3347 (2014).

Jinlong Yang, **Jie Xu***, Ning Wen, Yanan Qu, Fei Qi, Xiaoqing Xi. Direct coagulation casting of alumina suspension via controlled release of high valence counter ions from thermo[?] sensitive liposomes, *Journal of the American Ceramic Society*, 96 [1] 62–67 (2013).

Jie Xu, Ning Wen, Fei Qi, Hexin Li, Jinlong Yang. Direct coagulation casting of positively charged alumina suspension by controlled release of high valence counter ions from calcium phosphate, *Journal of the American Ceramic Society*, 95 [7] 2155–2160 (2012).

Jie Xu, Ning Wen, Hexin Li, Fei Qi, Xiaoqing Xi, Jinlong Yang. Direct coagulation casting of alumina suspension by high valence counter ions using $\text{Ca}(\text{IO}_3)_2$ as coagulating agent, *Journal of the American Ceramic Society*, 95 [8] 2525-2530 (2012).

Jie Xu, Yanan Qu, Xiaoqing Xi, Jinlong Yang. Properties of alumina coagulated bodies prepared by direct coagulation casting via high valence counter ions (DCC-HVCI), *Journal of the American Ceramic Society*, 95 [11] 3415-3420 (2012).

社会兼职 Social Appointments

中国硅酸盐学会会员，中国硅酸盐学会特陶分会青年工作委员会委员。深圳市科技创新委员会项目评审专家。担任*Journal of the American Ceramic Society*, *Journal of the European Ceramic Society*, *Journal of Materials Science*, *Ceramics International*等期刊审稿人。

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