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【在研科研项目】

1. 国家重点基础研究发展计划，一维半导体材料的高效光电转换与器件(2013CB932601)，2013年-2017年
2. 国家自然科学基金面上项目，一维纤锌矿半导体材料的光电探测器件及应变调制研究(51372023)，2014年-2017年
3. 教育部与国家外国专家局资助高等学校学科创新引智计划，功能性纳器件基础与应用引智基地(B2014)，2014年-2018年

【代表性学术论文】

1. Qijie Liang, Xiaoqin Yan*, Zheng Zhang, Qingliang Liao, Yinli Zhao, Guangjie Zhang, YouSong Gu, Yue Zhang*, Functional triboelectric generator as self-powered vibration sensor with contact mode and non-contact mode, *Nano Energy*, 2015, in press
2. Xin Zheng, Xiaoqin Yan*, Yihui Sun, Zhiming Bai, Guangjie Zhang, Yanwei Shen, Qijie Liang, Yue Zhang*, Au Embedded ZnO /NiO Hybrid with Excellent Electrochemical Performance as Advanced Electrode Materials for Supercapacitors, *ACS Applied Materials & Interfaces*, 2015, 7(4), 2480-2485.
3. Chen, X.*; Yan, X.*; Bai, Z.; Shen, Y.; Wang, Z.; Dong, X.; Duan, X.; Zhang, Y., High-throughput fabrication of large-scale highly ordered ZnO nanorod arrays via three-beam interference lithography. *Cryst. Eng. Comm.* 2013, 15 (42), 8416-8421.
4. Yue Zhang*, Xiaoqin Yan*, Ya Yang, YunHua Huang, Qingliang Liao, Junjie Qi, Scanning probe study on piezotronic effect in ZnO nanomaterials and nanodevices, *Adv. Mater.*, 2012, 24(34): 4647-4655.
5. X. Q. Yan*, Z. Tang, L. Zhang, J. J. Guo, C. Q. Jin, Y. Zhang, T. Goto, J. W. McCauley, and M. W. Chen, Depressurization amorphization of single-crystal boron carbide, *Phys. Rev. Lett.* 2009, 102, 075505.



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【Publications】

1. Qijie Liang, Xiaoqin Yan*, Zheng Zhang, Qingliang Liao, Yinli Zhao, Guangjie Zhang, YouSong Gu, Yue Zhang*, Functional triboelectric generator as self-powered vibration sensor with contact mode and non-contact mode, *Nano Energy*, 2015, in press
2. Xin Zheng, Xiaoqin Yan*, Yihui Sun, Zhiming Bai, Guangjie Zhang, Yanwei Shen, Qijie Liang, Yue Zhang*, Au Embedded ZnO /NiO Hybrid with Excellent Electrochemical Performance as Advanced Electrode Materials for Supercapacitors, *ACS Applied Materials & Interfaces*, 2015, 7(4), 2480-2485.
3. Chen, X.*; Yan, X.*; Bai, Z.; Shen, Y.; Wang, Z.; Dong, X.; Duan, X.; Zhang, Y., High-throughput fabrication of large-scale highly ordered ZnO nanorod arrays via three-beam interference lithography. *Cryst. Eng. Comm.* 2013, 15 (42), 8416-8421.
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