



首页 学院概况 学院动态 本科教育 研究生培养 科学研究 实验室建设 学生与党建
校友之窗 就业实习信息



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研究领域：

微纳机械、光电传感、光电可

主讲本科课程：

基于新型碳膜的光电传感系统

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主讲研究生课程：

高等工程数学

教育背景：

2008.8-2013.6, 新加坡南洋理工大学, 电气与电子工程学院, 博士

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主持项目:

2017.1-2019.12 国家自然科学基金青年科学基金项目，石墨烯边缘嵌入式纳米薄膜的光电响应原理及其在传感器中的应用，项目编号51605306，20万

2016.6-2019.6 广东省自然科学基金-博士启动项目，边界量子阱在纳晶石墨烯材料光电响应中的作用原理，项目编号2016A030310060

2016.1-2017.12 广东省教育厅青年创新人才项目，多层石墨烯嵌层碳膜的光传感器件化研究，项目编号2015KQNCX144

2016.1-2019.12, 深圳市高端人才科研启动项目，纳晶石墨烯表面光电传感与疏水特性原理以及表面性能设计平台，项目编号827000131

2015.6-2017.5, 深圳大学新引进教师科研启动项目，项目编号201528

代表期刊论文:

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(18) Zhang, Xi; Chen, Shun; Li, Jichen, Hydrogen-bond potential for ice VIII-X phase

transition, *Scientific Reports*, 2016, 6, 37161

(17) Zhang X, Liu X, Zhong Y, Zhou Z, Huang Y, Sun CQ. Nanobubble Skin Supersolidity. *Langmuir* 2016; 32: 11321–11327. (IF:3.993, JCR二区)

(16) Chen, Wencong; Zhang, Xi; Diao, Dongfeng, Low-energy electron excitation effect on formation of graphene nanocrystallites during carbon film growth process, *Appl. Phys. Lett.* 111, 114105 (2017)

(15) Wang, Chao; Zhang, Xi; Diao, Dongfeng, Nanosized graphene crystallite induced strong magnetism in pure carbon films, *nanoscale*, 2015, 7, 4475–4481

(14) Zhang, Xi, Wang, Chao, Sun, Chang Q., Diao, Dongfeng, Magnetism induced by excess electrons trapped at diamagnetic edge-quantum well in multi-layer graphene, *Applied Physics Letters*, 2014, 105 (4) : 042402. (IF:3.515, JCR二区)

(13) Zhang Xi*, Huang Yongli, Ma Zengsheng, Niu Lengyuan, Sun Changqing, From ice superlubricity to quantum friction: Electronic repulsivity and phononic elasticity, *Friction*, 2015, 3 (4) : 294–319. (SCI)

(12) Zhang, Xi, Nie, Yanguang, Zheng, Weitao, Kuo, Jer-lai, Sun, Chang Q., Discriminative generation and hydrogen modulation of the Dirac-Fermi polarons at graphene edges and atomic vacancies, *Carbon*, 2011, 49 (11) : 3615–3621. (IF:5.868, JCR一区TOP)

(11) Zhang, Xi, Kuo, Jer-lai, Gu, Mingxia, Bai, Ping, Sun, Chang Q., Graphene nanoribbon band-gap expansion: Broken-bond-induced edge strain and quantum entrapment, *Nanoscale*, 2010, 2 (10) : 2160–2163. (IF:6.233, JCR一区TOP)

(10) Zhang, Xi, Sun, Chang Q., Hirao, Hajime, Guanine binding to gold nanoparticles through nonbonding interactions, *Physical Chemistry Chemical Physics*, 2013, 15 (44) : 19284–19292. (IF:4.198, JCR二区)

(9) Zhang, Xi, Kuo, Jer-lai, Gu, Mingxia, Fan, Xiaofeng, Bai, Ping, Song, Qing-Gong, Sun, Chang Q., Local structure relaxation, quantum trap depression, and valence charge polarization induced by the shorter-and-stronger bonds between under-coordinated atoms in

gold, *Nanoscale*, 2010, 2 (3) : 412-417. (IF:6.233, JCR一區TOP)

(9) Xi Zhang, Yongli Huang, Peng Sun, Xinjuan Liu, Zengsheng Ma, Yichun Zhou, Ji Zhou, Weitao Zheng, Chang Q Sun, Ice Regelation: Hydrogen-bond extraordinary recoverability and water quasisolid-phase-boundary dispersivity, *Scientific Reports* 2015 Sep, 5, Article number: 13655

(8) Huang Yongli#, Zhang Xi#, Ma Zengsheng, Zhou Guanghui, Gong Yinyan, Sun Changqing, Potential Paths for the Hydrogen-Bond Relaxing with (H₂O) (N) Cluster Size, *J Phys Chem C*, 2015 Jul, 119(29): 16962-16971. (#同等贡献, IF: 4.772, JCR二區)

(7) Zhang, Xi, Yan, Tingting, Huang, Yongli, Ma, Zengsheng, Liu, Xinjuan, Zou, Bo, Sun, Chang Q., Mediating relaxation and polarization of hydrogen-bonds in water by NaCl salting and heating, *Physical Chemistry Chemical Physics*, 2014, 16 (45) : 24666-24671. (IF:4.198, JCR二區)

(6) Zhang, Xi, Huang, Yongli, Ma, Zengsheng, Zhou, Yichun, Zhou, Ji, Zheng, Weitao, Jiang, Qing, Sun, Chang Q., Hydrogen-bond memory and water-skin supersolidity resolving the Mpemba paradox, *Physical Chemistry Chemical Physics*, 2014, 16 (42) : 22995-23002. (IF:4.198, JCR二區)

(5) Zhang, Xi, Huang, Yongli, Ma, Zengsheng, Zhou, Yichun, Zheng, Weitao, Zhou, Ji, Sun, Chang Q., A common supersolid skin covering both water and ice, *Physical Chemistry Chemical Physics*, 2014, 16 (42) : 22987-22994.

(4) Huang, Yongli #, Zhang, Xi# , Ma, Zengsheng, Li, Wen, Zhou, Yichun, Zhou, Ji, Zheng, Weitao, Sun, Chang Q., Size, separation, structural order, and mass density of molecules packing in water and ice, *Scientific Reports*, 2013, 3. (#同等贡献, IF:5.078, JCR二區)

(3) Sun, Chang Q.; Zhang, Xi; Fu, Xiaojian; Zheng, Weitao; Kuo, Jerlai; Zhou, Yichun; Shen, Zexiang; Zhou, Ji. Density and Phonon-Stiffness Anomalies of Water and Ice in the Full Temperature Range, *Journal of Physical Chemistry Letters*, 2013, 4 (19) : 3238-3244. (IF: 6.585, JCR小一區)

(2) Sun, Chang Q.; Zhang, Xi; Zhou, Ji; Huang, Yongli; Zhou Yichun; Zheng, Weitao. Density,

Elasticity, and Stability Anomalies of Water Molecules with Fewer than Four Neighbors, Journal of Physical Chemistry Letters, 2013, 4 (15) : 2565-2570. (IF: 6.585, JCR小一区)

(1) Sun, Chang Q.; Zhang, Xi; Zheng, Weitao, The hidden force opposing ice compression, Chemical Science, 2012, 117: 13639-13645. (IF: 8.314, JCR一区)

代表会议论文:

1. Xi Zhang, Da Peng, Dongfeng Diao, Surface Electron Effect in Quantum Contact of Multi-layer Graphene against Rigid Diamond, World Tribology Congress, Beijing, China, September 17 - 22, 2017, 口头报告

2. Xi Zhang, Changqing Sun, Water and ice skin: Mpemba Paradox & Quantum Friction, 10th International Conference on Computational Physics (ICCP10), Macao SAR, China, 16-20 January 2017, 特邀报告& 分会主席

3. Xi Zhang, Dongfeng Diao, 3D graphene-nanoribbon ultrafast electro-optical nanosensor, The 11th Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE-NEMS 2016), Sendai, Japan, 17-20 April, 2016, Oral

代表专利:

1 《一种柔性透明紫外光异质结光电传感器及其制备方法》

申请号: 201810182872.2

2 《一种高灵敏红外异质结光电传感器及其制备方法》

申请号: 201810184358.2

3 一种基于石墨烯边缘嵌入式纳米薄膜光电传感器的脉搏仪, 刁东风、张希、陈文聪、林泽洲, 发明专利, 已受理, 201611105263.4

获得荣誉:

2015年11月 深圳市海外高层次人才B类(孔雀计划)

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所带硕士有出国留学以及进入上市企业实习的机会！欢迎报考！

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