



物理系概况

师资队伍

科学研究

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研究领域

低维纳米材料的制备、表征及其应用

1) 化学气相沉积薄膜材料生长, 包括大面积单层石墨烯、毫米尺寸石墨烯单晶、多层石墨烯制备; 六方氮化硼薄膜材料制备; 六方氮化硼/石墨烯异质结构。

2) 石墨烯热运输。

3) 石墨烯传感器、透明导电薄膜的应用。

热忱欢迎感兴趣的学子们加入! **Email: sschen@xmu.edu.cn.**

个人简历

09/2001 - 07/2005 物理学学士 中国厦门大学物理系

09/2005 - 05/2011 工学博士, 中美联合培养

中国厦门大学物理系 & 美国德州大学Austin分校机械工程系

博士论文题目: 超大面积石墨烯化学气相沉积生长、性质及应用研究

07/2011 - 08/2012 博士后研究员 美国德州大学Austin分校 机械工程系

在研基金

横向课题: 石墨烯微区拉曼光谱检测与分析 (2012-2014)

发表文章

发表论文(引用次数: 323, H-index: 7)

20) Y Zhang, Delong Li, X Tan, B Zhang, X Ruan, H Liu, C Pan, L Liao, T Zhai, Y Bando, **S Chen**, W Cai, R Ruoff. High quality graphene sheets from graphene oxide by hot-pressing. *Carbon* (2013)
DOI:10.1016/j.carbon.2012.11.012

19) **S. Chen**, H. Ji, H. Chou, Q. Li, H. Li, J. Suk, R. Piner, L. Liao, W. Cai, R. Ruoff, Millimeter-Size Single-Crystal Graphene by Suppressing Evaporative Loss of Cu During Low Pressure Chemical Vapor Deposition. *Advanced Materials* (2013) DOI: 10.1002/adma.201204000.

18) Q Li, H Chou, J Zhong, J Liu, A Dolocan, J Zhang, Y Zhou, R Ruoff, **S Chen***, W Cai*. Growth of adlayer graphene on Cu studied by carbon isotope labeling. *Nano Letters* (2013), DOI: 10.1021/nl303879k. (*Corresponding Author)

17) Q Wu, Y Wu, Y Hao, J Gen, M Charlton, **S Chen**, Y Ren, H Ji, H Li, D Boukhalov, R Piner, C Bielawski, R Ruoff. Selective surface functionalization at regions of high local curvature in graphene. *Chemical Communications* (2013), 7, 677-679.

16) **S Chen**, Q Wu, C Mishra, J Kang, H Zhang, K Cho, W Cai, A Balandin, R Ruoff. "Thermal conductivity of isotopically modified graphene" *Nature Materials* (2012) 11(3), 203-207

15) **S Chen**, Q Li, Q Zhang, Y Qu, H Ji, R Ruoff and W Cai. "Thermal conductivity measurements of suspended graphene with and without wrinkles by micro-Raman mapping" *Nanotechnology* (2012) 23, 365701.

14) S Park, Y Hu, J Hwang, E Lee, L Casabianca, W Cai, J Potts, H Ha, **S Chen**, J Oh, S Kim, Y Kim, Y Ishii, and R Ruoff. "Chemical structures of hydrazine-treated graphene oxide and generation of aromatic nitrogen doping" *Nature Communications* (2012) 3, 638.

科研团队

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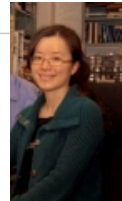
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13) Y Wu, H Chou, H Ji, Q Wu, **S Chen**, W Jiang, Y Hao, J Kang, Y Ren, R Piner, R Ruoff. Growth Mechanism and Controlled Synthesis of AB-Stacked Bilayer Graphene on CuNi Alloy Foils. *ACS Nano* (2012), 6, 7731 - 7738.

12) H Ji, L Zhang, M Pettes, H Li, **S Chen**, L Shi, R Piner and R Ruoff. "Ultrathin Graphite Foam: A Three-Dimensional Conductive Network for Battery Electrodes" *Nano Letters* (2012) 12, 2446-2451.

11) Z Robinson, P Tyagi, T Murray, C Ventrice Jr., **S Chen**, A Munson, C Magnuson, and R Ruoff. "Substrate grain size and orientation of Cu and Cu-Ni foils used for the growth of graphene films" *Journal of Vacuum and Science & Technology A* (2012) A30, 011401.

10) **S Chen**, A Moore, W Cai, J Suk, J An, C Mishra, C Amos, C Magnuson, J Kang, L Shi, and R. Ruoff. "Raman Measurements of Thermal transport in suspended monolayer graphene of variable sizes in vacuum and gaseous environments" *ACS Nano* (2011) 5(1), 321-328.

9) **S Chen**, W Cai, R Piner, J Suk, Y Wu, Y Ren, J Kang and R Ruoff. "Synthesis and characterization of large-area graphene and graphite films on commercial Ni-Cu alloy foils" *Nano Letters* (2011) 11(9), 3519-3525.

8) Y Ren, C Zhu, W Cai, H Li, Y Hao, Y Wu, **S Chen**, Q Wu, R Piner and R Ruoff. "An improved method for transferring graphene grown by chemical vapor deposition" *Nano* (2012) 2, 1150001.

7) **S Chen**, L Brown, M Levendorf, W Cai, S Ju, J Edgeworth, X Li, C Magnuson, A Velamakanni, R Piner, J Kang, J Park, R Ruoff. "Oxidation resistance of graphene-coated Cu and Cu/Ni alloy" *ACS Nano* (2011) 5(1), 1321-1327.

6) X Wang, **S Chen**, W Lin, S Li, H Chen, D Liu, and J Kang "Structural properties of InN films grown in different conditions by metalorganic vapor phase epitaxy" *Journal of Materials Research* (2011) 26(6), 775-780.

5) Y Ren, **S Chen**, Weiwei Cai, Yanwu Zhu, Chaofu Zhu, and Rodney S. Ruoff "Controlling the electrical transport properties of graphene by in situ metal deposition" *Applied Physics Letter*, (2010) 97, 053107.

4) W Cai, A Moore, Y Zhu, X Li, **S Chen**, L Shi, and R Ruoff. "Thermal transport in suspended and supported monolayer graphene grown by chemical vapor deposition" *Nano Letters* (2010) 10, 1645-1651.

3) **S Chen**, W Cai, D Chen, Y Ren, X Li, Y Zhu, J Kang and R Ruoff. "Adsorption/desorption and electrically controlled flipping of ammonia molecules on graphene" *New Journal of Physics* (2010) 12, 125011-1-8.

2) **S Chen**, W Lin, S Li, and J Kang. "Electronic structures of InN/GaN quantum dots" *Journal of Nanoscience and Nanotechnology* (2009) 9, 1226-1228.

1) **S Chen**, J Zheng, S Li, and J Kang. "Structure properties of InN quantum dots in GaN semiconductor" *Chinese Journal of Luminescence* (2007) 28, 88-92.

发明专利:

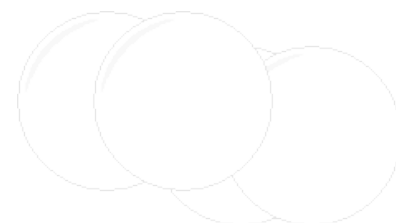
1. 专利名称: 多结太阳能电池及各子电池交流电致发光测试方法和装置。

发明人: 康俊勇、陈珊珊、小川智哉 专利号: ZL 2009 1 0112669.9

历史

注册了

11 周 5 天



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