



EACHING
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首页 师资队伍 员工信息

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研究领域:

凝聚态物理, 目前集中在新型半导体的磁-光-电耦合的研究

学习经历:

博士, 武汉大学物理系, 2006年9月-2011年7月

学士, 湖北大学物理系, 2002年9月-2006年7月

工作经历:

2013年7月至今, 河南师范大学物理学院讲师

2017年4月至2018年4月, 美国加州大学洛杉矶分校 (UCLA) 访问学者

2013年12月至2017年4月, 河南师范大学博士后

2011年7月至2013年7月, ASM Pacific Technology中级研发工程师

教学工作:

主讲《光谱分析基础》、《铁电材料及应用》

曾讲过《半导体器件物理》、《微电子制造技术》、《材料合成与制备》、《大学物理实验提高型》、《功能材料实验II》等

科研活动:

CrN/GaN异质结构的磁性和电输运性质研究, 国家自然科学基金项目, 2015-2017年, 主持
过渡金属和氮共掺TiO₂的氧空位分析及其对磁性的影响, 国家自然科学基金项目, 2014-2016年, 参与
离子注入制备InN基n-沟道铁电场效应晶体管, 国家自然科学基金项目, 2012-2015年, 参与
铁电体与宽禁带半导体异质结性质研究, 国家自然科学基金项目, 2010-2012年, 参与

主要论著:

1.Hengheng Li, Zhongpo Zhou* and Haiying Wang, Tunable Schottky barrier in InTe/graphene van der Waals heterostructure, Nanotechnology 31, 335201 (2020)

2.Wangming Peng, Yanhua Guo*, Yumin Zhang, Wangxi Wu, Yanxiang Liu, Zhou, Zhongpo Zhou, A first-principles investigation of double transition metal atoms embedded C₂N monolayer as a promising SF₆ gas adsorbent and scavenger, Materials Chemistry And Physics 240, 122184 (2020)

3.Hengheng Li, Zhongpo Zhou*, Kelei Zhang and Haiying Wang, Schottky barrier modulation of a GaTe/graphene heterostructure by interlayer distance and perpendicular electric field, Nanotechnology 30, 405207 (2019)

4.Shin-Hung Tsai, Sidong Lei*, Xiaodan Zhu, Shiao-Po Tsai, Gen Yin, Xiaoyu Che, Peng Deng, Jimmy Ng, Xiang Zhang, Wei-Hsiang Lin, Zehua Jin, Hussam Qasem, Zhongpo Zhou, Robert Vajtai, Na-Chang Yeh, Pulickel Ajayan, Ya-Hong Xie, and Kang L. Wang*, Interfacial States and Fano-Feshbach Resonance in Graphene-Silicon Vertical Junction, Nano Letters 19, 6765-6771 (2019)

5.Jingjing Guo, Zhongpo Zhou*, Hengheng Li, Haiying Wang, Chang Liu, Tuning Electronic Properties of Blue Phosphorene/Graphene-Like GaN van der Waals Heterostructures by Vertical External Electric Field, Nanoscale Research Letters, 14, 174 (2019)

6.Dingbo Zhang, Zhongpo Zhou*, Yue Hue, Zongxian Yang, WS₂/BSe van der Waals type-II heterostructure as a promising water splitting photocatalyst, Materials Research Express, 6, 035513 (2019)

7.Dingbo Zhang, Zhongpo Zhou*, Haiying Wang, Zongxian Yang, Chang Liu, Tunable Electric Properties of Bilayer alpha-GeTe with Different Interlayer Distances and External Electric Fields, Nanoscale Research Letters, 13, 400 (2018)

8.Dingbo Zhang, Zhongpo Zhou*, Haiying Wang, Tianxing Wang, Zhansheng Lu, Zongxian Yang, Zhiwei Ai, Hao Wu, Chang Liu, Structure and magnetic properties of CrN thin films on La_{0.67}Sr_{0.33}MnO₃, Current Applied Physics, 18, 1320-1326 (2018)

9. Meng Du, Xing-Zhong Cao*, Rui Xia, Zhong-Po Zhou*, Shuo-Xue Jin and Bao-Yi Wang, Magnetic field aligned orderly arrangement of Fe₃O₄ nanoparticles in CS/PVA/Fe₃O₄ membranes, *Chinese Physics B*, 2, 027805 (2018)
10. Jing Xu, Haiying Wang*, Zhongpo Zhou, Zhaorui Zou, Ferromagnetic Properties of N-Doped and Undoped TiO₂ Rutile Single-Crystal Wafers with Addition of Tungsten Trioxide, *Materials*, 11, 1934 (2008)
11. Ling Le, Jing Xu, Zhongpo Zhou, Haiying Wang, Rui Xiong, Jing Shi*, Effect of oxygen vacancies and Ag deposition on the magnetic properties of Ag/N co-doped TiO₂ single-crystal films, *Materials Research Bulletin*, 102 337-341 (2018)
12. Ling Le, Yiting Wu, Zhongpo Zhou, Haiying Wang, Rui Xiong, Jing Shi*, Cu₂O clusters decorated on flower-like TiO₂ nanorod array film for enhanced hydrogen production under solar light irradiation, *Journal of Photochemistry and Photobiology A-Chemistry*, 351, 78-86 (2018)
13. Yanhua Guo*, Yumin Zhang, Wangxi Wu, Yanxiang Liu, Zhongpo Zhou, Transition metal (Pd, Pt, Ag, Au) decorated InN monolayer and their adsorption properties towards NO₂: Density functional theory study, *Applied Surface Science*, 455, 106-114 (2018)
14. Yanhua Guo*, Zhanfen Chen, Wangxi Wu, Yanxiang Liu, Zhongpo Zhou, Adsorption of NO_x (x=1, 2) gas molecule on pristine and B atom embedded γ -graphyne based on first-principles study, *Applied Surface Science*, 455, 484-491 (2018)
15. Zhongpo Zhou, Haiying Wang*, Zhaorui Zou, Meng Du, Jingjing Guo, Zongxian Yang*, Investigations on the origin of ferromagnetism of Cu doped anatase TiO₂ nanotubes, *Materials Research Bulletin*, 86, 287-294 (2017)
16. Jingjing Guo, Zhongpo Zhou*, Tianxing Wang, Zhansheng Lu, Zongxian Yang, Chang Liu, Electronic structure and optical properties for blue phosphorene/graphene-like GaN van der Waals heterostructures, *Current Applied Physics*, 17, 1714-1720 (2017)
17. Zhaorui Zou, Zhongpo Zhou*, Haiying Wang, Magnetic properties of Mo-N co-doped TiO₂ anatase nanotubes films, *Journal of Materials Science-Materials in Electronics*, 28, 207-213 (2017)
18. Zhaorui Zou, Zhongpo Zhou*, Haiying Wang*, Zongxian Yang*, Effect of Au clustering on ferromagnetism in Au doped TiO₂ films: theory and experiments investigation, *Journal of Physics and Chemistry of Solids*, 100, 71-77 (2017)
19. Jing Xu, Zhongpo Zhou*, and Haiying Wang*, Origin of Ferromagnetism in Ru and N Codoped TiO₂ Nanotubes: Experiments and Theory Investigations, *Journal of Nanomaterials*, Article ID 2316745 (2017)
20. Zhongpo Zhou*, Haiying Wang*, Zongxian Yang, Zhiwei Ai, Liping Guo, Chang Liu, Investigations on the origin of ferromagnetism in Ga_{1-x}Cr_xN and Si-doped Ga_{1-x}Cr_xN films: Experiments and theory, *Journal of Alloys and Compounds*, 658, 800-805 (2016)
21. Zhongpo Zhou*, Haiying Wang*, Zongxian Yang, Intrinsic defect-mediated magnetism in Fe-N codoped TiO₂, *Journal of Alloys and Compounds*, 657, 372-378 (2016)
22. Zhongpo Zhou*, Xinwei Yang, Haiying Wang*, Zhaorui Zou, and Jingjing Guo, Electronic and Magnetic Properties Studies on Mn and Oxygen Vacancies Codoped Anatase TiO₂, *Advances in Condensed Matter Physics*, Article ID 1562596 (2016)
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24. Suyin Zhang, Zhongpo Zhou, Rui Xiong*, Jing Shi, Zhihong Lu and Haiying Wang, The origin of ferromagnetism of Co-doped TiO₂ nanoparticles: Experiments and theory investigation, *Modern Physics Letters B*, 32 & 33, 1650296 (2016)
25. Zhongpo Zhou*, Zongxian Yang, Chang Liu, Effects of Si-doping on magnetic properties of Ga_{1-x}Cr_xN, *Journal of Magnetism and Magnetic Materials*, 374, 564-568 (2015)
26. Zhongpo Zhou*, Haiying Wang, Shuting Niu, Jingju Chen, Zongxian Yang, Chang Liu*, Microstructure and magnetic properties of In_{1-x}Cr_xN thin films, *Materials Science in Semiconductor Processing*, 31, 147-152 (2015)
27. Zhongpo Zhou and Haiying Wang*, Fe plus N Noncompensated Codoping TiO₂ Nanowires: The Enhanced Visible Light Photocatalytic Properties, *International Journal of Photoenergy*, Article ID 568185 (2014)
28. Meng Li, He-Ying Niu, Lu-Yan Yao, Dong-Liang Wang, Zhong-Po Zhou, Heng Ma*, Efficiency improvement in organic solar cells by doping cholesteric liquid crystal, *Acta Physica Sinica*, 24, 248403 (2014)
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30. Tiecheng Li, Liping Guo*, Congxiao Liu, Guoliang Peng, Bo He, Zhiyun Pan, Zhongpo Zhou, Shuigang Xu, Zuci Quan, Annealing temperature effects on ferromagnetism and structure of Si_{1-x}Mn_x films prepared by magnetron sputtering, *Vacuum*, 86, 1358-1362 (2012)
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