



物理系概况

师资队伍

科学研究

本科教育

研究生教育

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科研团队

理论物理与天体物理学科群

凝聚态物理学科群

光子学微电子学科群

专业实验室

光子学中心

凝聚态物理实验中心

基础物理教学实验室

物理学专业实验室

研究领域

- 金属基纳米光学(Nano-Optics)及等离激元光学(Plasmonics)结构、材料与器件
- 微纳光学结构与纳米材料的光相互作用
- 新型光电子器件及其集成技术

个人简历

- 2005年~今， 厦门大学物理系副教授、教授、博士生导师。
- 2000~2005年， 美国匹兹堡大学电子工程系博士生(Ph.D.)
- 1997~2000年， 兰州大学物理系微电子学硕士研究生(M.E.)
- 1993~1997年， 兰州大学物理系本科生(B.S.)

在研基金

- 国家自然科学基金面上项目：一种低损耗混合模等离激元光波导的模式、耦合特性及其集成问题的研究（2013-2016，主持）
- 福建省自然科学基金杰青项目：低损耗等离激元光波导的研究（2011-2014，主持）
- 国家重大科学研究计划项目子课题：硅基混合集成微纳结构高速高灵敏度光电探测器的研究（2012-2016，参加）
- 教育部高等学校博士点基金：低损耗金属/介质复合纳米材料等离激元波导器件的研究（2008-2010，主持）
- 国家自然科学基金：低损耗金属/介质复合纳米材料等离激元波导集成光路研究（2008-2010，主持）
- 福建省科技计划重点项目：防辐射、防紫外、高导电率透明金属/介质复合薄膜的研制（2007-2009，主持）
- 福建省自然科学基金：纳米压印技术在等离激元波集成光学器件上的应用研究（2007-2009，主持）

发表文章

1. Zhijun Sun*, Ying Yang, and Xiaoliu Zuo, "Narrow-band optical transmission of metallic nanoslit arrays," Applied Physics Letters, Vol. 101, Iss. 17, 171106-1-4 (2012).
2. Zhijun Sun*, Xiaoliu Zuo, and Ying Yang, "Role of surface metal nanoparticles on the absorption in solar cells," Optics Letters, Vol. 37, No. 4, 641-643 (2012).
3. Jie Li, Qi Lin and Zhijun Sun*, "Photoluminescence of Er silicates on microstructured Si substrate," Journal of Luminescence, Vol. 132, Iss. 2, 325-329 (2012).
4. Bowen Liu and Zhijun Sun*, "Plasmon resonances in deep nanogrooves of reflective metal gratings," Photonics and Nanostructures-Fundamentals and Applications, Vol. 132, Iss. 2, 325-329 (2012).
5. Zhijun Sun*, Xiaoliu Zuo, and Jie Li, "Optical transmission through multilayered ultra-thin metal gratings," Plasmonics, Vol. 6, Iss. 4, 745-751 (2011).
6. Xiaoliu Zuo and Zhijun Sun*, "Low-loss plasmonic hybrid optical ridge waveguide on silicon-on-insulator substrate," Optics Letters, Vol. 36, No. 15, 2946-2948 (2011).
7. Zhijun Sun* and Xiaoliu Zuo, "Tunable absorption of light via localized plasmon resonances on a metal surface with interspaced ultra-thin metal gratings," Plasmonics, Vol. 6, Iss. 1, 83-89 (2011).
8. Qi Lin and Zhijun Sun*, "Optical extinction properties of aggregated ultra-fine silver nanoparticles on silica nanospheres," The Journal of Physical Chemistry C, Vol. 115, Iss. 5, 1474-1479 (2011).
9. Zhijun Sun*, Xiaoliu Zuo, Jie Li, Bowen Liu, "Hybridized low-loss plasmonic-optical waveguides for ultra-compact integration," Proceedings of SPIE, Vol. 7847, 784700 (2010).
10. Zhijun Sun*, Xiaoliu Zuo and Qi Lin, "Plasmon-induced nearly null transmission of light through gratings in very thin metal films," Plasmonics, Vol. 5, Iss. 1, 13-17 (2010).

常用链接

厦门大学

物理与机电学院

电子科学系

机电工程系

航空系

11. Zhijun Sun* and Xiaoliu Zuo, “Tuning resonant optical transmission of metallic nanoslit arrays with embedded microcavities” , Optics Letters, Vol. 34, Iss. 9, 1411-1413 (2009).
12. Zhijun Sun*, Qi Lin, and Wei Chen “Low-loss, compact waveguiding with TE mode in metal/dielectric waveguides for planar light wave circuit” , Optics Communications, Vol. 282, No. 10, 2036-2039 (2009).
13. Zhijun Sun* and Qi Lin, “Study of a Fabry-Perot-like microcavity with sandwiched metallic gratings for tunable filter arrays” , IEEE Photonics Technology Letters, 20(13), 1157-1159 (2008).
14. Zhijun Sun* and Danyan Zeng, “Modeling optical transmission spectra of periodic narrow slit arrays in thick metal films and their correlation with those of individual slits” , Journal of Modern Optics, 55 (10), 1639-1647 (2008).
15. Zhijun Sun*, “Vertical dielectric-sandwiched thin metal layer for compact, low-loss long range surface plasmon waveguiding” , Applied Physics Letters, 91(11), 111112 (2007).
16. Zhijun Sun* and Danyan Zeng, “Coupling of surface plasmon waves in metal/dielectric gap waveguides and single interface waveguides” , Journal of the Optical Society of America B, 24(11), 2883-2887 (2007).
17. Zhijun Sun*, “Beam splitting with a modified metallic nano-optic lens” , Applied Physics Letters, 89 (26), 261119 (2006).
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19. Zhijun Sun and Hong Koo Kim*, “Refractive transmission of light and beam shaping with metallic nano-optic lenses” , Applied Physics Letters, 85(4), 0642 (2004). (Cover Image)
20. Zhijun Sun, Yun Suk Jung and Hong Koo Kim*, “Role of surface plasmons in the optical interaction in metallic gratings with narrow slits” , Applied Physics Letters, 83(15), 3021 (2003).
21. Zhijun Sun and Hong Koo Kim*, “Growth of ordered, single-domain, alumina nanopore arrays with holographically patterned aluminum films” , Applied Physics Letters, 81 (18), 3458 (2002).

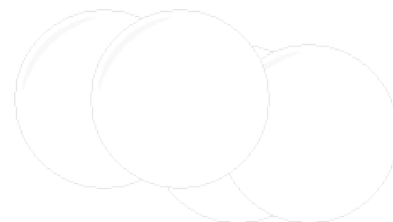
任教课程

- 光电子学基础 (本科)
- 高等光学 (研究生)
- 等离激元光学 (研究生)
- 近代物理学基础 (本科校选)

历史

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1 年 21 周



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