



杨中见

个人简介

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杨中见

2008年获武汉大学学士学位, 2013年获武汉大学博士学位。读博期间曾到北京计算科学研究中心及香港中文大学交流学习。2013-2015年在瑞典查尔莫斯理工大学从事博士后科研工作。入选中南大学2015年“升华猎英”计划。研究领域为纳米光子学。主要从事贵金属纳米结构表面等离子元共振性质以及高折射率介质材料光响应等方面的计算模拟研究。目前已在国际期刊上发表ESI论文30余篇, 其中第一作者论文10多篇, ESI论文他引达到800余次。

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欢迎感兴趣的同学加盟!

科研项目:

1. 国家自然科学基金青年项目, 11704416, 基于表面等离子元耦合的复合纳米天线设计及优化研究, 2018/01-2020/12, 23万元, 在研, 主持。
2. 湖南省自然科学基金青年项目, 2017JJ3408, 级联光学纳米天线体系中局域场增强特性研究, 2017/01-2019/12, 5万元, 在研, 主持。
3. 中南大学“升华猎英计划”项目, 2016-2020, 50万, 在研, 主持。

讲授课程

大学物理

科研方向

1. 金属纳米结构表面等离子元共振性质;
2. 高折射率介质材料光学性质;
3. 金属与高折射率介质结构复合体系光学性质, 及相关器件方面研究。

学术成果

代表性论文:

18. Qian Zhao, Zhong-Jian Yang*, Jun He, "Fano resonances in heterogeneous dimers of silicon and gold nanospheres" *Front. Phys.* 13(3), 137801 (2018).
17. Zhong-Jian Yang, Qian Zhao, Yan-Hui Deng, Dou Zhang, Jun He, "Efficient second harmonic generation in gold-silicon core-shell nanostructures" *Opt. Express* 26, 5835 (2018).
16. Zhong-Jian Yang, Ruibin Jiang, Xiaolu Zhuo, Ya-Ming Xie, Jianfang Wang, Hai-Qing Lin, "Dielectric nanoresonators for light manipulation" *Physics Reports* 701, 1-50 (2017).
15. Zhong-Jian Yang, Qian Zhao, Jun He, "Boosting magnetic field enhancement with radiative couplings of magnetic modes in dielectric nanostructures" *Opt. Express* 25, 15927 (2017).
14. Zhong-Jian Yang, Qian Zhao, Si Xiao, Jun He, "Engineering two-wire optical antennas for near field enhancement" *Photonics and Nanostructures - Fundamentals and Applications* 25, 72 (2017).
13. Zhong-Jian Yang, "Fano Interference of Electromagnetic Modes in Subwavelength Dielectric Nanocrosses" *J. Phys. Chem. C* 120, 21843 (2016).
12. Zhong-Jian Yang, Tomasz J Antosiewicz, Timur Shegai, "Role of material loss and mode

- volume of plasmonic nanocavities (2016).
11. Zhong-Jian Yang, T. J. Antos, "The ultimate limit of light extinction in a plasmonic nanorod," *Opt. Lett.* 37, 131113 (2012).
 10. Zhong-Jian Yang, "Coherent Radiant Plasmonic Nanorod Resonances," *Opt. Lett.* 37, 131113 (2012).
 9. Zhong-Jian Yang, Zhong-Hua Yang, "Fano resonances in metallic nanorod arrays," *Opt. Lett.* 37, 131113 (2012).
 8. Ya-Lan Wang*, Zhong-Jian Yang, "Enhanced Transmission in Silver Nanoparticles and Ag Nanorod Arrays," *Opt. Lett.* 37, 131113 (2012).
 7. Zhong-Jian Yang, Qu-Quan Wang, "Fano resonances in metal-dielectric core-shell nanoparticles," *Opt. Lett.* 37, 131113 (2012).
 6. Zhong-Jian Yang, Qu-Quan Wang, "Fano resonances in metal-dielectric core-shell nanoparticles coupled to plasmonic antennas," *Opt. Lett.* 37, 131113 (2012).
 5. Zhong-Jian Yang, Zong-Suo Wang, "Fano resonances in dielectric plasmon hybridization," *Opt. Lett.* 37, 131113 (2012).
 4. Zhong-Jian Yang, Zong-Suo Wang, "Fano resonances in dielectric plasmon hybridization," *Opt. Lett.* 37, 131113 (2012).
 3. Zhong-Jian Yang, Zong-Suo Wang, "Fano resonances in dielectric plasmon hybridization," *Opt. Lett.* 37, 131113 (2012).
 2. Zhong-Jian Yang, Zong-Suo Wang, "Fano resonances in dielectric plasmon hybridization," *Opt. Lett.* 37, 131113 (2012).
 1. Zhong-Jian Yang, Nam-Chol Park and Qu-Quan Wang, "Surface plasmon resonance in silver nanorod arrays," *Opt. Lett.* 35, 4006 (2010).

