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当前位置

卜胜利教授

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一、个人简介



博士, 教授、硕士生导师、上海市曙光学者。2015年上海市研究生优秀学位论文指导教师, 2015年上海市人才发展基金获得者, 2012-2013年国家留学基金委公派Cornell University访问学者。曾获上海理工大学教学成果奖“一等奖”(序2)和“二等奖”(序2)。发表学术论文100余篇, 其中SCI论文60余篇, 论文总被1200多次, 单篇最高被引100多次, H指数20。

二、主要学习与工作经历

2006年8月-至今上海理工大学理学院讲师、副教授、教授

2012年8月-2013年8月Cornell University访问副教授

2003年9月-2006年6月上海交通大学物理系博士

1996年9月-2003年7月安徽大学物理系本科、硕士

三、主要科研工作与成绩

主要从事磁性软物质、磁性胶体材料的新型光学、磁光特性及其应用的研究, 代表性论文:

1. Shengli Pu, Lianmin Mao, Tianjun Yao, Jinfeng Gu, Mahieddine Lahoubi, and Xianglong Zeng, "Microfiber coupling structures for magnetic field sensing with enhanced sensitivity," *IEEE Sensors Journal* 17(18), 5857-5861 (2017).
2. Jie Rao, Shengli Pu, Tianjun Yao, and Delong Su, "Ultrasensitive magnetic field sensing based on refractive-index-matched coupling," *Sensors* 17(7), 1590 (2017).
3. Delong Su, Shengli Pu, Lianmin Mao, Zhaofang Wang, and Kai Qian, "A photonic crystal magnetic field sensor using a shoulder-coupled resonant cavity infiltrated with magnetic fluid," *Sensors* 16(12), 2157 (2016).
4. Lianmin Mao, Shengli Pu, Delong Su, Zhaofang Wang, Xianglong Zeng, and Mahieddine Lahoubi, "Magnetic field sensor based on cascaded microfiber coupler with magnetic fluid," *J. Appl. Phys.* 120(9), 093102 (2016).
5. Shengli Pu, Longfeng Luo, Jiali Tang, Lianmin Mao, and Xianglong Zeng, "Ultrasensitive refractive-index sensors based on tapered fiber coupler with Sagnac loop," *IEEE Photon. Technol. Lett.* 28(10), 1073-1076 (2016).
6. Longfeng Luo, Shengli Pu, Jiali Tang, Xianglong Zeng, and Mahieddine Lahoubi, "Highly sensitive magnetic field sensor based on microfiber coupler with magnetic fluid," *Appl. Phys. Lett.* 106, 193507 (2015).
7. Longfeng Luo, Shengli Pu, Jiali Tang, Xianglong Zeng, and Mahieddine Lahoubi, "Reflective all-fiber magnetic field sensor based on microfiber and magnetic fluid," *Opt. Express* 23(14), 18133-18142 (2015).
8. Longfeng Luo, Shengli Pu, Shaohua Dong, and Jiali Tang, "Fiber-optic magnetic field sensor using magnetic fluid as the cladding," *Sensors and Actuators A: Physical* 236, 67-72 (2015).
9. Jiali Tang, Shengli Pu, Longfeng Luo, and Shaohua Dong, "Simultaneous measurement of magnetic field and temperature based on magnetic fluid-clad long period fiber grating," *J. Eur. Opt. Soc.-Rapid* 10, 15025 (2015).

10. Weizheng Lei, and **Shengli Pu**, “Tunable slow light with large bandwidth and low-dispersion in photonic crystal waveguide infiltrated with magnetic fluids,” *J. Magn.* **20**(2), 110-113 (2015).
11. Jiali Tang, **Shengli Pu**, Shaohua Dong, and Longfeng Luo, “Magnetic field sensing based on magnetic-fluid-clad multimode-singlemode-multimode fiber structures,” *Sensors* **14**, 19086-19094 (2014).
12. Shaohua Dong, **Shengli Pu**, and Haotian Wang, “Magnetic field sensing based on magnetic-fluid-clad fiber-optic structure with taper-like and lateral-offset fusion splicing,” *Opt. Express* **22**, 19108-19116 (2014).
13. **Shengli Pu**, and Shaohua Dong, “Magnetic field sensing based on magnetic-fluid-clad fiber-optic structure with up-tapered joints,” *IEEE Photon. J.* **6**, 5300206 (2014).
14. **Shengli Pu**, Shaohua Dong, and Juan Huang, “Tunable slow light based on magnetic-fluid-infiltrated photonic crystal waveguides,” *J. Opt.* **16**, 045102 (2014).
15. Yang Liu, Lei Shi, Xinbiao Xu, Ping Zhao, Zheqi Wang, **Shengli Pu**, and Xinliang Zhang, “All-optical tuning of magnetic-fluid-filled optofluidic ring resonator,” *Lab Chip* **14**, 3004-3010 (2014).
16. Shaohua Dong, **Shengli Pu**, and Juan Huang, “Magnetic field sensing based on magneto-volume variation of magnetic fluids investigated by air-gap Fabry-Pérot fiber interferometers,” *Appl. Phys. Lett.* **103**, 111907 (2013).
17. Haotian Wang, **Shengli Pu**, Ning Wang, Shaohua Dong, and Juan Huang, “Magnetic field sensing based on singlemode-multimode-singlemode fiber structures using magnetic fluids as cladding,” *Opt. Lett.* **38**, 3765-3768 (2013).
18. **Shengli Pu**, Haotian Wang, Ning Wang, and Xianglong Zeng, “Extremely large bandwidth and ultralow-dispersion slow light in photonic crystal waveguides with magnetically controllability,” *Appl. Phys. B* **112**, 223-229 (2013).
19. **Shengli Pu**, Haotian Wang, Ning Wang, and Xianglong Zeng, “Tunable flat band slow light in reconfigurable photonic crystal waveguides based on magnetic fluids,” *Opt. Commun.* **311**, 16-19 (2013).
20. Haotian Wang, **Shengli Pu**, Arash Gharibi, and Ning Wang, “Generation and versatile transmission properties of ring-shaped beams based on thermal lens effect of magnetic fluids and ring-limited windows,” *Opt. Commun.* **286**, 211-216 (2013).
21. Hongzhu Ji, **Shengli Pu**, Xiang Wang, Guojun Yu, Ning Wang, and Haotian Wang, “Magnetic field sensing based on capillary filled with magnetic fluids,” *Appl. Opt.* **51**, 6528-6538 (2012).
22. Hongzhu Ji, **Shengli Pu**, Xiang Wang, and Guojun Yu, “Influence of switchable magnetic field on the modulation property of nanostructured magnetic fluids,” *Opt. Commun.* **285**, 4435-4440 (2012).
23. Xiang Wang, **Shengli Pu**, Hongzhu Ji, and Guojun Yu, “Enhanced magnetic-field-induced optical properties of nanostructured magnetic fluids by doping nematic liquid crystals,” *Nanoscale Res. Lett.* **7**, 249 (2012).
24. Hongzhu Ji, **Shengli Pu**, Xiang Wang, and Guojun Yu, “Magnetic field sensing based on V-shaped groove filled with magnetic fluids,” *Appl. Opt.* **51**, 1010-1020 (2012).
25. **Shengli Pu**, Xuekun Bai, and Lunwei Wang, “Temperature dependence of photonic crystals based on thermoresponsive magnetic fluids,” *J. Magn. Magn. Mater.* **323**, 2866-2871 (2011).
26. Xuekun Bai, **Shengli Pu**, and Lunwei Wang, “Optical relaxation properties of magnetic fluids under externally magnetic fields,” *Opt. Commun.* **284**, 4929-4935 (2011).
27. Xuekun Bai, **Shengli Pu**, Lunwei Wang, Xiang Wang, Guojun Yu, and Hongzhu Ji, “Tunable magneto-optic modulation based on magnetically responsive nanostructured magnetic fluids,” *Chin. Phys. B* **20**, 107501 (2011).
28. **Shengli Pu**, Min Dai, and Guoqing Sun, “Longitudinal field-induced polarized light transmittance of magnetic fluids,” *Opt. Commun.* **283**, 4012-4016 (2010).
29. **Shengli Pu**, and Ming Liu, “Tunable photonic crystals based on MnFe_2O_4 magnetic fluids by magnetic fields,” *J. Alloys Compd.* **481**, 851-854 (2009).
30. **Shengli Pu**, Lanfang Yao, Feifei Guan, and Ming Liu, “Threshold-tunable optical limiters based on nonlinear refraction in ferrosols,” *Opt. Commun.* **282**, 908-913 (2009).
31. **Shengli Pu**, Tao Geng, Xianfeng Chen, Xianglong Zeng, Ming Liu, and Ziyun Di, “Tuning the band gap of self-assembled superparamagnetic photonic crystals in colloidal magnetic fluids using external magnetic fields,” *J. Magn. Magn. Mater.* **320**, 2345-2349 (2008).
32. **Shengli Pu**, Xianfeng Chen, Ziyun Di, Tao Geng, and Yuxing Xia, “Electrical properties of nanostructured magnetic colloid and influence of magnetic field,” *Chin. Phys. Lett.* **24**, 3253-3256 (2007).
33. **Shengli Pu**, Xianfeng Chen, Ziyun Di, and Yuxing Xia, “Relaxation property of the magnetic-fluid-based fiber-optic evanescent field modulator,” *J. Appl. Phys.* **101**, 053532 (2007).
34. **Shengli Pu**, Xianfeng Chen, Yuping Chen, Yonghao Xu, Weijun Liao, Lijun Chen, and Yuxing Xia, “Fiber-optic evanescent field modulator using a magnetic fluid as the cladding,” *J. Appl. Phys.* **99**, 093516 (2006).
35. **Shengli Pu**, Xianfeng Chen, Lijun Chen, Weijun Liao, Yuping Chen, and Yuxing Xia, “Suppressing the thermal lens effect by magnetic-field-induced mass transfer and phase separation in a magnetic fluid,” *Appl. Phys. Lett.* **87**, 021905 (2005).
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37. **Shengli Pu**, Xianfeng Chen, Yuping Chen, Weijun Liao, Lijun Chen, and Yuxing Xia, “Measurement of the refractive index of a magnetic fluid by the retroreflection on the fiber-optic end face,” *Appl. Phys. Lett.* **86**, 171904 (2005).
38. **Shengli Pu**, Xianfeng Chen, Weijun Liao, Lijun Chen, Yuping Chen, and Yuxing Xia, “Laser self-induced thermo-optical effects in a magnetic fluid,” *J. Appl. Phys.* **96**, 5930-5932 (2004).

四、主要社会学术团体兼职

国际期刊Journal of Nanofluids编辑、上海市物理学会第16届理事会理事、Journal of Nanomaterials客座主编(Special Issue, 2014年5-12月)。

五、主要研究方向

磁光效应, 光学材料, 导波光学, 光纤技术与传感, 光电子器件, 纳米光子学等。

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