



中国计量学院硕士生导师信息表

基本信息

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研究方向:	光纤传感 LED固体照明			办公地点:	
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在研课题

- [1] 基于法布里-珀罗与悬臂梁结构的新型光纤光栅传感器研制, 编号: 2011R409042, 浙江省新苗人才计划, 2011.12-2012.12
- [2] 基于量子点和荧光粉混掺的高显色高光效白光LED的研究开发, (编号: 2011c21033) 浙江省科技厅项目2010.1-2012.12.
- [3] 光子带隙光纤表面等离子共振氢气传感器研制, 2012R409055, 浙江省新苗人才计划, 2012.12-2013.12

获奖情况

- [1] 浙江省科学技术奖一等奖, 基于微结构增光和多维散热的LED灯具封装关键技术及应用。金尚忠, 岑松原, 张淑琴, 林胜, 陈海军, 王乐, 张日光, 顾朝辉, 兵, 沈常宇, 袁琨, 窦亮亮, 浙江省人民政府, 2011年
- [2] 浙江省高校科研成果三等奖, 单芯量子点白光LED的研究开发。沈常宇, 金尚忠, 刘福莉, 梁培, 浙江省教育厅, 2012年
- [3] Changyu Shen, Photonics and OptoElectronics Meeting 2008, Best Student Paper Award, 2008年

近期发表的主要成果

期刊论文

1. C. Shen, C. Zhong, Y. You, J. Chu, X. Zou, X. Dong, Y. Jin and J. Wang, "Polarization-dependent curvature sensor based on an in-fiber Mach-Zehnder interferometer with a difference arithmetic demodulation method," Optics Express, 2012, 20(14), 15406-15417
2. Changyu Shen, Jinlei Chu, Feng Qian, Xin Zou, Chuan Zhong, Ke Li, Shangzhong Jin. High color rendering index LED based on nano-YAG:Ce³⁺ phosphor hybrid with CdSe/CdS/ZnS core/shell/shell quantum dots. Journal of Modern Optics. 2012, 59(14): 1199 - 1203
3. C. Zhong, C. Shen*, Y. You, J. Chu, X. Zou, X. Dong, Y. Jin and J. Wang, Temperature-insensitive optical fiber two-dimensional micrometric displacement sensor based on an in-line Mach-Zehnder interferometer, J. Opt. Soc. Am. B.

2012, 29(5), 1136-1140 通讯作者

4. C. Shen*, C. Zhong, J. Chu, X. Zou, Y. Jin, J. Wang, X. Dong, Y. Li, L. Wang. Temperature-insensitive strain sensor using a fiber loop mirror based on low-birefringence polarization-maintaining fibers. Optics Communications. 2013,287:31-34

5. C. Zhong, C. Shen*, Y. You, J. Chu, X. Zou, X. Dong, Y. Jin and J. Wang, "A polarization-maintaining fiber mirror based sensor for liquid refractive index absolute measurement," Sensors and Actuators B: Chemical, 2012, 163:360-364. 通讯作者

6. C. Shen, C. Zhong, J. Chu, X. Zou, K. Li, Y. Jin, and J. Wang. Simultaneous measurement of refractive index temperature based on a Long-Period Grating inscribed on a polarization-maintaining fiber, Sensor Letters, 2012, 10(7):1483-1485

7. C. Shen, C. Zhong, Novel temperature-insensitive fiber Bragg grating sensor for displacement measurement, Sensors Actuators A: Physical, 2011,170:51-54

8. C. Zhong, C. Shen*, J. Chu, X. Zou, K. Li, Y. Jin, J. Wang. A displacement sensor based on a temperature-insensitive double trapezoidal structure with fiber Bragg grating, IEEE Sensors Journal, 2011, 12(5), 1280-1283 通讯作者

9. Changyu Shen, Chuan Zhong, Jiangzhou Ming. YAG:Ce³⁺, Gd³⁺ nano-phosphor for White Light Emitting Diodes, Journal Experimental Nanoscience, DOI:10.1080/17458080.2011.559589

10. C. Zhong, C. Shen*, Omni-distance Uniform LED Illuminating System using D-shape Photonic Crystal Fibre, J. Optoelectron. Adv. Mater. (RC), 2011,5(3):198-200 通讯作者

11. C. Zhong, C. Shen, K. Li, X. Dong, Y. Jin, and J. Wang. Temperature-insensitive FBG tiny displacement sensor. Sensor Letters, 2012, 10(7): 1470-1473 通讯作者

12. Changyu Shen, Yi Yang. Synthesis and Luminous Characteristics of Ba₂MgSiO₅: Eu²⁺ Phosphor, Materials and Manufacturing Processes, 2011, 26(10):1335-1337

13. Changyu Shen, Chuan Zhong, Qianglong Hou, Ke Li. White LED based on CaAl₂Si₂O₈:Eu²⁺, Mn²⁺ phosphor and CdS/ZnS quantum dots, Journal of Physics: Conference Series, 2011, 276:012184-1-4

14. Changyu Shen. White Light Emitting Diode based on Core/Shell Quantum Dots, Chinese Optics Letters, 2011, 9(s1):1-4

15. Y. Wang, C. Zhao, L. Hu, X. Dong, Y. Jin, C. Shen, S. Jin. A tilt sensor with a compact dimension based on a long-period fiber grating. Review of Scientific Instruments, 2011, 82(9):093106

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18. Changyu Shen, Yi Yang, Shongzhong Jin, Jiangzhou Ming, Huajun Feng, Zhihai Xu. White light emitting diodes using blue and yellow-orange emitting phosphors, Optik, 2010, 121:1487-1491

19. W. Zhou, X. Dong, C. Shen, C. Zhao, C. Chan, P. Shum. Temperature-independent vibration sensor with a fiber grating. Microwave and Optical Technology Letters. 2010,52(10):2282-2285

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会议论文

1. C. Shen, Q. Yu, K. Li. Spectral Characteristics of Cascaded Phase-Shifted Fiber Bragg Grating, APOS, 2010, Guangzhou

2. C. Zhong, C. Shen*, L. Xiang, K. Li, "Plane Displacement Measurement of Rigid Body by Laser Speckle," Asia Communications and Photonics Conference and Exhibition (ACP), 2010. Shanghai 通讯作者

3. X. Zou, C. Shen*, J. Chu, C. Zhong. Long-Period Fiber Grating Based Cantilever Strain Sensor. Photonics and Optoelectronics (SOP0), 21-23 May 2012. Shanghai 通讯作者
4. J. Chu, C. Shen*, C. Zhong, X. Zou, K. Li, X. Dong. Optical Fiber Refractometer Based on a Long-Period Grating Inscribed in a Fiber Loop Mirror. Photonics and Optoelectronics (SOP0), 21-23 May 2012. Shanghai 通讯作者
5. C. Zhong, C. Shen*, K. Li, "A Novel Temperature-Insensitive Fiber Bragg Grating Sensor for Pressure Measurement Symposium on Photonics and Optoelectronics (SOP0), 2011. 通讯作者
6. C. Zhong, C. Shen*, K. Li, X. Dong, Y. Jin, "Spectral Characteristics of Multiple and Cascaded Phase-Shifted Bragg Grating," Symposium on Photonics and Optoelectronics (SOP0), 2011, 通讯作者
7. C. Zhong, C. Shen*, L. Xiang, K. Li, "Plane Displacement Measurement of Rigid Body by Laser Speckle," Communications and Photonics Conference and Exhibition (ACP), 2010 Asia, Proceedings of SPIE Vol. 4244, 7113. 通讯作者
8. C. Shen, K. Li. Reflective Spectral of Multiple Phase-Shifted Fiber Bragg Grating, IEEE, Lasers and Electro-Optics: Pacific, 2009, 1-2
9. C. Shen, X. Yu. Optical system design for high speed 2km free space optical communication, Proc. of SPIE, 2007, 678348
10. C. Shen, H. Feng, Z. Xu, S. Jin. High Speed Free Space Optical Communication System for 1km communication, I Lasers and Electro-Optics-Pacific, 2007, 1-2
11. C. Shen, F. Chen, B. Yin, R. Miao. Experimental and theoretical research of propagation of the double-circle beam in Kerr-medium, Proc. of SPIE, 2007, 6595, 65950G
12. C. Shen, F. Chen, X. Yu. Optical design of an optical system for free space optical communication, Proc. of SPIE, 2006, 6149, 614915

② 发明专利

1. 沈常宇, 金尚忠, 彭德光, 董新永. 一种量子点光纤超连续宽带白光光源, 专利号: ZL200810121999.X (已授权)
2. 沈常宇, 金尚忠, 彭德光, 林科, 周盛华, 古元华. 一种InP-InAsP量子线LED发光装置, 专利号: ZL200810122000.3 (已授权)
3. 沈常宇, 宋亚兰. 一种遥控变焦眼镜装置, 专利号: ZL201010157598.7 (已授权)
4. 沈常宇, 钟川, 李可, 侯强龙, 金尚忠. 一种LED用荧光粉平面打印装置, 专利号: ZL201010607685.8 (已授权)
5. 金尚忠, 沈常宇. 大口径空气芯光子晶体光纤导光管照明装置, 专利号: ZL 200810059538.4 (已授权)
6. 沈常宇, 王志毅, 金尚忠, 周俊. 一种白光量子点光纤激光器, 公开号: CN 101521349A (已公开)
7. 沈常宇; 钟川; 牟晟; 褚金雷; 邹新; 李可, 一种基于包层模传输的光纤光栅微弯传感器, 公开号: CN102305637A (已公开)
8. 沈常宇; 钟川; 沈天祺; 吴斌; 叶兰芝; 王科; 牟晟; 蒋晔婷; 蔡丹丹, 一种双等腰三角形筒支梁结构的温度不敏感光纤光栅位移传感器, 公开号: CN102221333 (已公开)
9. 钟川; 沈常宇; 褚金雷; 邹新; 李可; 胡朋兵; 赵宇, 一种基于HiBi-PM-FLM的折射率传感器, 公开号: CN102288579A (已公开)