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夏历

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姓名: 夏历
 职称: 副教授
 研究所(实验室): 光通信与光网络系
 职务:

学习工作经历:

2004 年博士毕业于清华大学。在博士学位攻读期间, 参加了多项国家高技术研究发展计划资助项目(863 计划)和自然科学基金资助项目的研究, 2003 年获得中国通信学会科学技术奖二等奖。2005-2009 年, 在新加坡南洋理工大学电机与电子工程学院做博士后。在新加坡工作期间, 主持和参与新加坡科技发展局资助项目研究, 主要参与高速光纤网络中小型化多波长光源研制和微波信号处理研究工作, 核心研究内容光通信杂志Photronics Spectra 重点报道。2010 年至今, 在华中科技大学工作。回国后承担在研项目有科技部中新(加坡)合作项目“用于消化道病变检测的纳米微结构光纤内窥传感技术研究”, 教育部留学回国人员科研启动基金项目“基于表面等离子波增强效应的光纤布拉格光栅传感器开发”等。近年来作为第一作者在国内外权威期刊及国际会议上已发表学术论文30 多篇, 其中包括SCI 收录论文18 篇。已获授权国家发明专利4 项, 发明专利2 项。

研究方向、领域:

光纤通信系统传输构建, 无源光纤器件设计以及基于光纤表面等离子体与表面增强拉曼散射研究。

主要成果:

主要发表的SCI 收录期刊文章有: (*为文章通讯作者)

Yating Zhang, Derrick Yong, Xia Yu, Shuwen Zeng, Li Xia, Deming Liu and Ying Zhang, Amplification of surface enhanced Raman scattering in photonic crystal*

fiber using offset launch method, *Plasmonics*, accepted, 2012.

Lecheng Li, Li Xia*, Zhenhai Xie, Zhaolong Liao, Fengtu, Deming Liu, Simultaneous measurement of refractive index and temperature using thinned fiber based Mach-Zehnder interferometer, *Optics Communications*, vol. 285, pp.3945-3949, 2012.

3. Lecheng Li, Li Xia*, Zhenhai Xie, and Deming Liu, All-fiber Mach-Zehnder interferometers for sensing applications, *Optics Express*, vol. 20, no. 10, pp. 11109-11120, 2012.

Lecheng Li, Li Xia*, Zhenhai Xie, Liangning Hao, Binbin Shuai, Deming Liu, In-line fiber Mach-Zehnder interferometer for simultaneous measurement of refractive index and temperature based on thinned fiber, *Sensors and Actuators: A Physical*, vol. 180, 19-24, 2012.

Binbin Shuai, Li Xia*, Yating Zhang, and Deming Liu, A multi-core holey fiber based plasmonic sensor with large detection range and high linearity, *Optics Express*, vol. 20, no.6, pp. 5974-5986, 2012.

Lecheng Li, Li Xia*, Zhenhai Xie, and Deming Liu, Numerical Analysis of the Three Co-directional Guided Modes in Optical Period Dielectric Waveguides Using Inverse Gaussian Apodization, *European Physical Journal D*, 66:94, 2012.

Chi Zhou, Yating Zhang, Li Xia*, and Deming Liu, Photonic crystal fiber sensor based on hybrid mechanisms: plasmonic and directional resonance coupling, *Optics Communications*, vol. 285, pp. 2466-2471, 2012.

Yating Zhang, Chi Zhou, Li Xia*, Xia Yu, and Deming Liu, Wagon wheel fiber based multichannel plasmonic sensor, *Optics Express*, vol. 19, no. 23, pp. 22863-22873, 2011.

Yating Zhang, Li Xia*, Chi Zhou, Xia Yu, Hairong Liu, Deming Liu, Ying Zhang, Microstructured fiber based plasmonic index sensor with optimized accuracy and calibration relation, *Optics Communications*, vol. 284, pp.4161-4166, 2011.

Yating Zhang, Chi Zhou, Li Xia*, Analyte-filled Fiber Core Assisted Surface Plasmon Sensing, *Optical sensors and biophotonics II : Proceedings of SPIE :7990*, 2011.

Li Xia*, Binbin Shuai, Wei Li and Deming Liu, Polarization detection analysis of dual - channel surface plasmon resonance sensing for silicone oils based on the D -shaped fiber with a central hole, *Optics Communications*, vol. 285, 3730-3734, 2012.

Li Xia*, Binbin Shuai, Lecheng Li, Deming Liu, Analysis of coupling strength apodisation among the three co-directional guided modes in optical period dielectric waveguides, *Optik*, accepted, 2012.

3. Li Xia*, binbin Shuai, Wei Li, Deming Liu, " Simultaneous measurement of temperature and infinitesimal displacement using the high cladding mode coupling loss in fiber Bragg grating," *Sensors and Actuators: A. Physical*, vol. 176, 53-56, 2012.

Li Xia*, Yating Zhang, Chi Zhou, binbin Shuai, Deming Liu, " Numerical Analysis

