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China University of Geosciences

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教师博客



刘力

❤️ 435

个人简介

Personal Profile

刘力, 男, 1988年生, 现为中国地质大学(武汉)自动化学院特任副教授, 硕士生导师, 2016年入选中国地质大学(武汉)“地大学者--青年优秀人才”计划。

现主持国家自然科学基金青年基金1项、湖北省自然科学基金1项、中央高校杰出人才培养基金1项、航天科工联合基金1项, 以第一作者身份在国际权威期刊OSA Optics Express、IEEE Photonics Journal等期刊上发表了十多篇论文, 其中于第十四届国际光通信和网络会议(ICOCN2015)上获得最佳论文奖。现担任多个国际期刊的审稿人, 如OSA Optics Express、Photonics Technology Letters、Optics communications、Fiber and Integrated Optics。

基本信息

Personal Information

副教授 硕士生导师

曾获荣誉: 第十四届国际光通信和网络会议(ICOCN2015)上获得最佳论文奖

性别: 男

出生年月: 1988年07月03日

毕业院校: 华中科技大学

学历: 博士研究生

学位: 工学博士学位

所在单位: 自动化学院

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主要研究方向: 纳米器件在光电系统和人工智能等领域中的应用。

1. 光学传感、光通信纳米器件;
2. 微波光子雷达、微波光子滤波器;
3. 光电神经网络芯片;
4. 基于光子学的机器学习系统在通信中的应用;

主要代表性论文如下:

1. **Li Liu**, Zhi Chen, Xing Jin, Yue Yang, Zhihua Yu, Jingjing Zhang, Lijun Zhang and Hong Wang, Low-power all-optical microwave filter with tunable central frequency and bandwidth based on cascaded opto-mechanical microring resonators, *Optics Express* 25(15): 17329~17342 (2017).
2. **Li Liu**, Yue Yang, Zhihua Li, Xing Jin, Wenqin Mo, Xing Liu, Low power consumption and continuously tunable all-optical microwave filter based on an opto-mechanical microring resonator, *Optics Express* 25(2): 960~971 (2017).
3. **Li Liu**, Jin Yue, and Zhihua Li, All-Optical Switch Based on a Fiber-Chip-Fiber Opto-Mechanical System With Ultrahigh Extinction Ratio, *IEEE Photonics Journal* 9(3): 1~8 (2017).
4. **Li Liu**; Huaqing Qiu; Zhi Chen; Zhihua Yu, Photonic measurement of microwave frequency with low-error based on an optomechanical microring resonator, *IEEE Photonics Journal* 9(6): 5503611 (2017).
5. **Li Liu**, Jianji Dong, Xinliang Zhang, Chip-integrated all-optical 4-bit Gray code generation based on silicon microring resonators, *Optics Express* 23(16): 21414~21423 (2015).
6. **Li Liu**, Jianji Dong, Dingshan Gao et al., "On-chip passive three-port circuit of all-optical ordered-route transmission", *Scientific Reports* 5 10190 (2015).
7. **Li Liu**, T. Yang, S. Liao and J. Dong, "Photonic generation of millimeter-wave using a silicon microdisk resonator", *Optics Communications* 343 115-120 (2015).
8. **Li Liu**, Fan Jiang, Siqi Yan, et al. "Photonic measurement of microwave frequency using a silicon microdisk resonator", *Optics Communications* 335 266-270 (2015).
9. **Li Liu**, Mengying He, and Jianji Dong, "Compact continuously tunable microwave photonic filters based on cascaded silicon microring resonators", *Optics Communications* 363 128-133 (2016).
10. **Li Liu**, Yunhong Ding, Xinlun Cai et al. "Route-asymmetrical light transmission of a fiber-chip-fiber optomechanical system", *Frontiers of Optoelectronics* 1-8 (2016).



扫描关注

11. **Li Liu**, Ting Yang, and Jianji Dong, "Microwave photonic filter with a continuously tunable central frequency using an SOI high-Q microdisk resonator," *Chinese Physics B* 9 093201 (2014).
12. **Li Liu**, Jianji Dong, Huaqing Qiu et al., "An all-silicon passive six-port circuit of all-optical ordered-route transmission" In CLEO: Science and Innovations (pp. SM3G-4). Optical Society of America.
13. **Li Liu**, Jianji Dong, Ting Yang et al., "Comparison analysis of microwave photonic filter using SOI microring and microdisk resonators" In SPIE OPTO (pp. 898515-898515). International Society for Optics and Photonics.
14. **Li Liu**, Jianji Dong, Dingshan Gao et al., "Integrated all-optical three-port circuit of ordered-route transmission" IEEE 2015 14th International Conference on Optical Communications and Networks (ICO CN) 2015: 1-3. **国际会议最佳论文奖**
15. **Li Liu**, Jianji Dong, Yunhong Ding et al., "Nonreciprocal light transmission based on the thermal radiative effect" IEEE 2015 14th International Conference on Optical Communications and Networks (ICO CN) 2015: 1-3.
16. **Li Liu**, Jianji Dong, Mengying He et al., "Compact tunable microwave photonic filters based on cascaded microring resonators" IEEE 2015 International Topical Meeting on Microwave Photonics (MWP) 2015: 1-4.
17. Jianji Dong, Li Liu et al. "Compact Notch Microwave Photonic Filters Using On-Chip Integrated Microring Resonators", *IEEE Photonics Journal* 5 (2) 5500307-5500307 (2013).
18. 刘力, 董建绩, 闵书存 等. 硅光非线性效应在数字光子回路中的应用[J]. 光通信研究 2015 (2015年06): 11-15 48. 武汉邮电科学研究院主办期刊的**特邀论文**

教育经历

Education Background

工作经历

Work Experience

2011.9	2016.6	华中科技大学	光电信息工程	博士研究生毕业	工学博士学位
2007.9	2011.6	华中科技大学	光电信息工程	大学本科	学士学位

研究方向

Research Focus

社会兼职

Social Affiliations