

光电子器件与集成功能实验室

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个人简介

2008年获华中科技大学光信息科学与技术专业学士学位，2013年获华中科技大学光电信息工程专业博士学位。2013年至2014年于中国空间技术研究院钱学森空间技术实验室工作，任助理研究员岗位，2014年9月进入华中科技大学武汉光电国家研究中心工作至今。

研究领域

研究兴趣包括微波光子学与集成光子学，研究集中在光学产生、操控及处理微波信号，具体分为微波光子滤波器，高质量微波信号源，光学产生相位编码的微波信号，多普勒频移测量技术以及微波光子移相技术等。

主要学术成就

以第一作者在本领域期刊和会议或发表学术论文26篇，包括期刊论文21篇，国际会议论文5篇，申请国家发明专利5项。期刊论文如下：

1. Yuan Yu, Enming Xu, Jianji Dong et al, "Switchable microwave photonic filter between high Q bandpass filter and notch filter with flat passband based on phase modulation," OSA Optics Express, 18(24), pp.25271-25282, 2010.
2. Yuan Yu, Jianji Dong, Xiang Li, et al, "Ultra-Wideband Generation Based on Cascaded Mach-Zehnder Modulators," IEEE Photonics Technology Letters, 23(23), pp. 1754-1756, 2011.
3. Yuan Yu, Jianji Dong, Xiang Li, et al, "UWB Monocycle Generation and Bi-Phase Modulation Based on Mach-Zehnder Modulator and Semiconductor Optical Amplifier," IEEE Photonics Journal, 4(2), pp. 327-339, 2012.
4. Yuan Yu, Jianji Dong, Enming Xu, et al, "Single Passband Microwave Photonic Filter With Continuous Wideband Tunability Based on Electro-Optic Phase Modulator and Fabry-Pérot Semiconductor Optical Amplifier," IEEE/OSA Journal of Lightwave Technology, 29(23), pp.3542-3550,2011.
5. Yuan Yu, Jianji Dong, Xiang Li, et al, "All-Optical Microwave Photonic Filter Based on Electrooptic Phase Modulator and Detuned Wavelength Division De-Multiplexer," IEEE Transactions on Microwave Theory and Techniques, 59(9), pp.2340-2349, 2011.
6. Yuan Yu, Jianji Dong, Xiang Li, et al, "Photonic generation of millimeter-wave ultra-wideband signal using phase modulation to intensity modulation conversion and frequency up-conversion," Optics Communications, 285(7), pp.1748-1752, 2012.
7. Yuan Yu, Jianji Dong, Fan Jiang, et al. "Photonic Generation of Precisely π Phase-Coded Microwave Signal with Broadband Tunability" , IEEE Photonics Technology Letters, 25(24), pp.2466-2469, 2013.
8. Yuan Yu, Jianji Dong, Bowen Luo, et al, "A Single Passband Microwave Photonic Filter with Flat-Top and Steep Transition Edges" , Optics Communications, 286(1), pp.95-98, 2013.
9. Yuan Yu, Jianji Dong, Bowen Luo, et al, "Photonic generation of UWB impulses by using a Fabry-Pérot semiconductor optical amplifier", Optics Communications, vol. 315, pp.356- 361, 2014.
10. Yuan Yu, Fan Jiang, Haitao Tang, Lu Xu, Xiaolong Liu, Jianji Dong* and Xinliang Zhang*, "Reconfigurable photonic temporal differentiator based on a dual-drive Mach-Zehnder modulator," Optics Express, 24(11), pp. 11739-11748 (2016).
11. Yuan Yu, Haitao Tang, Lu Xu, Xiaolong Liu, Fan Jiang, Jianji Dong and Xinliang Zhang*, "Switchable Microwave Photonic Filter Between Low-Pass and High-Pass Responses," IEEE Photonics Journal, 8(5), 5501408 (2016).
12. Yuan Yu, Fan Jiang, Haitao Tang, Lu Xu, Xiaolong Liu, Jianji Dong and Xinliang Zhang*, "Generation of Millimeter-Wave Ultra-Wideband Pulses Free of Strong Local Oscillation and Background," IEEE Photonics Technology Letters, 28(21), pp. 2363-2366 (2016).
13. Yang Liu, YuanYu*, Shixing Yuan, Xinbiao Xu and Xinliang Zhang, "Tunable megahertz bandwidth microwave photonic notch filter based on a silica microsphere cavity," Optics Letters, 41(21), pp. 5078-5081 (2016).
14. Fan Jiang, Yuan Yu*, Tong Cao, Haitao Tang, Jianji Dong and Xinliang Zhang*, "Flat-top bandpass microwave photonic filter with tunable bandwidth and center frequency based on a Fabry-Pérot semiconductor optical amplifier," Optics Letters, 41(14), pp. 3301-3304 (2016).

15. Fan Jiang, Yuan Yu*, Haitao Tang, Lu Xu and Xinliang Zhang*, "Tunable bandpass microwave photonic filter with ultrahigh stopband attenuation and skirt selectivity," *Optics Express*, 24(16), pp. 18655-18663 (2016).
16. Lu Xu, Xi Kong, Ziwei Wang, Haitao Tang, Xiaolong Liu, Yuan Yu*, Jianji Dong, and Xinliang Zhang, "A Tunable Single Passband Microwave Photonic Filter of Overcoming Fiber Dispersion Induced Amplitude Fading". *IEEE Photonics Journal*, 9(3), 5502008, 2017.
17. Haitao Tang, Yuan Yu*, Chi Zhang, Ziwei Wang, Lu Xu, and Xinliang Zhang, "Analysis of Performance Optimization for a Microwave Photonic Filter Based on Stimulated Brillouin Scattering", *Journal of Lightwave Technology*, 35(20), pp. 4375-4383, 2017.
18. Lu Xu, Yuan Yu*, Haitao Tang, and Xinliang Zhang, "A Simplified Photonic Approach to Measuring the Microwave Doppler Frequency Shift", *IEEE Photonics Technology Letters*, 30(3), pp. 246-249, 2018.
19. Xiaolong Liu, Yuan Yu*, Haitao Tang, Lu Xu, Jianji Dong, and Xinliang Zhang, "Silicon-on-insulator-based microwave photonic filter with narrowband and ultrahigh peak rejection", *Optics Letters*, 43(6), pp. 1359-1362, 2018.
20. Haitao Tang, Yuan Yu*, Ziwei Wang, Lu Xu, and Xinliang Zhang, "Wideband tunable optoelectronic oscillator based on a microwave photonic filter with an ultranarrow passband", 43(10), pp. 2328-2331, 2018.
21. Huaqing Qiu, Feng Zhou, Jinran Qie, Yuhan Yao, Xiao Hu, Yuguang Zhang, Xi Xiao*, Yuan Yu*, Jianji Dong*, and Xinliang Zhang, "A Continuously Tunable Sub-gigahertz Microwave Photonic Bandpass Filter Based on An Ultra-high-Q Silicon Microring Resonator", *Journal of Lightwave Technology* (Accepted).

获奖与荣誉称号

1. 2012年度“王大珩高校光学奖”
2. 2017年度华中科技大学学术新人奖。
3. 2017年度重庆市自然科学三等奖。

主要学术兼职

担任Optics Letters, Optics Express, Journal of Lightwave Technology, Photonics Journal, Photonics Research等期刊审稿人。

招生信息

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