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郭团，男，1979年出生，副教授，硕士生导师。

2001年和2004年本科/硕士毕业于西安石油大学电子工程系，2007年在南开大学现代光学研究所获得博士学位。2007年至2010年，分别在加拿大卡尔顿大学和香港理工大学从事博士后研究。2010年加入暨南大学光子技术研究所。

主要从事光纤器件、光纤传感技术、生物光子技术等方面的研究，主持国家自然科学基金青年项目1项、教育部博士点基金项目1项、广东省自然科学基金面上项目2项，获广州市首批珠江科技新星项目资助。发表SCI论文30余篇，SCI他引100余次，研究成果被Laser Focus World评述。在国际学术会议上做特邀报告1次，担任国际学术期刊Journal of Sensors编辑。

2011年荣获首批珠江科技新星基金，2012年入选广东省高校“千百十工程”校级培养对象。

代表性论文：

1. Tuan Guo\*, Libin Shang, Fu Liu, Chuang Wu, Bai-Ou Guan, Hwa-Yaw Tam, Jacques Albert, "Polarization-maintaining fiber-optic-grating vector vibroscope," Optics Letters, Vol. 38, No. 4, Feb. 2013, 531-533.
2. Qiangzhou Rong, Xueguang Qiao, Tuan Guo, Ruohui Wang, Yinyan Weng, Manli Hu, Zhongyao Feng, Jing Zhang,

- Yue Ma, "Reflective fiber-optic refractometer based on a compact Hi-Bi fiber tip," *IEEE Sensors Journal*, accepted.
3. Jing Zhang, Hao Sun, Tuan Guo, Dan Su, Qiangzhou Rong, Yue Ma, Dingyi Feng, Yanying Du, Shen Yang, Zhongyao Feng, Manli Hu, Xueguang Qiao, "Simultaneous Measurement of Refractive Index and Temperature Using a Michelson Fiber Interferometer with a Hi-Bi fiber probe," *IEEE Sensors Journal*, accepted.
4. Liu Fu, Guo Tuan, Liu Jianguo, Zhu Xiaoyang, Liu Yu, Guan Baiou, Albert Jacques, "High-sensitive and temperature-self-calibrated tilted fiber grating biological sensing probe," *Chinese Science Bulletin*, accepted.
5. Tuan Guo, Libin Shang, Yang Ran, Bai-Ou Guan, Jacques Albert, "Fiber-optic vector vibroscope," *Optics Letters*, Vol. 37, No. 13, Jul. 2012, 2703-2705.
6. Yue Ma, Xueguang Qiao, Tuan Guo, Ruohui Wang, Jing Zhang, Yinyan Weng, Qiangzhou Rong, Manli Hu, and Zhongyao Feng, "Reflective fiber-optic refractometer based on a thin-core fiber tailored Bragg grating reflection," *Optics Letters*, Vol. 37, No. 3, Feb. 2012, 323-325. Highlighted by *Laser Focus World*, vol. 48, no. 2, Feb. 2012, newsbreaks.
7. Yue Ma, Xueguang Qiao, Tuan Guo, Ruohui Wang, Jing Zhang, Yinyan Weng, Qiangzhou Rong, Manli Hu, Zhongyao Feng, "Mach-Zehnder Interferometer Based on a Sandwich Fiber Structure for Refractive Index Measurement," *IEEE Sensors Journal*, Vol. 12, No. 6, Jun. 2012, 2081-2085.
8. Jing Zhang, Xueguang Qiao, Tuan Guo, Ruohui Wang, Yue Ma, Manli Hu, Zhongyao Feng, "High-Sensitive Temperature Sensor Using a Hi-Bi Fiber Tip Probe," *IEEE Sensors Journal*, Vol. 12, No. 6, Jun. 2012, 2077-2080.
9. Yue Ma, Xueguang Qiao, Tuan Guo, Ruohui Wang, Jing Zhang, Yinyan Weng, Qiangzhou Rong, Manli Hu and Zhongyao Feng, "Temperature-independent refractive index measurement based on Fabry-Perot fiber tip sensor modulated by Fresnel reflection," *Chinese Optics Letters*, Vol. 10, No. 5, Mar. 2012, 050603-050608.
10. Qiangzhou Rong, Xueguang Qiao, Tuan Guo, Ruohui Wang, Jing Zhang, Manli Hu, Zhongyao Feng, Yinyan Weng, and Yue Ma, "Temperature-calibrated fiber-optic refractometer based on a compact FBG-SMS structure," *Chinese Optics Letters*, Vol. 10, No. 13, Mar. 2012, 030604-030606.
11. Tuan Guo, Allan Chi-lun Wong, Weisheng Liu, Bai-Ou Guan, Chao Lu, and Hwa-Yaw Tam, "Beat-frequency adjustable Er<sup>3+</sup>-doped DBR fiber laser for ultrasound detection", *Optics Express*, Vol. 19, No. 3, Jan. 2011, 2485-2492.
12. Yang Zhang, Yan-Nan Tan, Tuan Guo, and Bai-Ou Guan, "Beat frequency trimming of dual-polarization fiber grating lasers for multiplexed sensor applications", *Optics Express*, Vol. 19, No. 1, Jan. 2011, 218-223.
13. Jing Zhang, Xueguang Qiao, Tuan Guo, Ruohui Wang, Yue Ma, Manli Hu, Zhongyao Feng, "Highly sensitive temperature sensor using PANDA fiber Sagnac interferometer," *IEEE Journal of Lightwave Technology*, Vol. 29, No. 24, Dec. 2011, 3640-3644.
14. Qiang Wu, Yuliya Semenova, Youqiao Ma, Pengfei Wang, Tuan Guo, Long Jin and Gerald Farrell, "Light coupling between a singlemode- multimode-singlemode (SMS) fiber structure and a long period fiber grating," *Journal of Lightwave Technology*, Vol. 29, No. 24, Dec 2011, 3683-3688.
15. Yinyan Weng, Xueguang Qiao, Tuan Guo, Manli Hu, Zhongyao Feng, Ruohui Wang and Jing Zhang, "A robust and compact fiber Bragg grating vibration sensor for seismic measurement," *IEEE Sensors Journal*, Vol. 12, No. 4, Apr. 2011, 800-3804.
16. Weisheng Liu, Tuan Guo, Allan Chi-lun Wong, Hwa-Yaw Tam, and Sailing He, "Highly Sensitive Bending Sensor based on Er<sup>3+</sup>-Doped DBR Fiber Laser," *Optics Express*, Vol. 18, No. 17, Aug. 2010, 17834-17840.
17. Yuheng Huang, Tuan Guo, Chao Lu, and Hwa-Yaw Tam, "VCSEL-based tilted fiber grating vibration sensing system", *IEEE Photonics Technology Letters*, Vol. 22, No. 16, Aug. 2010, 1235-1237.
18. Tuan Guo, Liyang Shao, Hwa-Yaw Tam, Peter A. Krug and Jacques Albert, "Tilted fiber grating accelerometer incorporating an abrupt biconical taper for cladding to core recoupling", *Optics Express*, Vol. 17, No. 23, Nov. 2009, 20651-20660.
19. Tuan Guo, Hwa-Yaw Tam, Peter A. Krug, and Jacques Albert, "Reflective tilted fiber Bragg grating refractometer based on strong cladding to core recoupling", *Optics Express*, Vol. 17, No. 7, Mar. 2009, 5736-5742. Selected for *Virtual Journal for Biomedical Optics*, Vol. 4, Iss. 5, 2009.
20. Tuan Guo, Chengkun Chen, and Jacques Albert, "Non-uniform-tilt-modulated fiber Bragg grating for temperature-immune micro-displacement measurement", *Measurement Science and Technology*, Vol. 20, No. 3, Mar. 2009, 034007-034011.
21. Tuan Guo, Alexei Ivanov, Chengkun Chen, and Jacques Albert, "Temperature-independent tilted fiber grating vibration sensor based on cladding-core recoupling", *Optics Letters*, Vol. 33, No. 9, May 2008, 1004-1006.
22. Tuan Guo, Chengkun Chen, Albane Laronche, and Jacques Albert, "Power-referenced and temperature-calibrated optical fiber refractometer", *IEEE Photonics Technology Letters*, Vol. 20, No. 8, Apr. 2008, 635-637.
23. Tuan Guo, Bo Liu, Hao Zhang, Qida Zhao, and Xiaoyi Dong, "Linear and Gaussian chirped fiber Bragg grating and its applications in fiber-optic filtering and sensing system", *IEEE Photonics Technology Letters*, Vol.19, No. 14, Jul. 2007, 1096-1098.
24. Tuan Guo, Hao Zhang, Bo Liu, Guoyu Li, Qida Zhao and Xiaoyi Dong, "Gaussian-strain-chirped fiber Bragg grating couple for temperature-insensitive and intensity-referenced force measurement", *IEEE Sensors Journal*, Vol. 7, No. 10, Oct. 2007, 1390-1394.
25. Tuan Guo, Jie Yang, Qida Zhao, Guiling Huang, Hao Zhang and Xiaoyi Dong, "Temperature-immune and intensity-referenced pressure sensor based on strain-induced quadratic-chirped fibre Bragg grating", *Electronics Letters*, Vol.

43, No. 2, Jan. 2007, 90-92.

26. Guoyu Li, Tuan Guo, Hao Zhang, Hongwei Gao, Jian Zhang, Bo Liu, Shuzhong, Yuan, Guiyun Kai, Xiaoyi Dong, "Fiber Grating sensor interrogation based on the InGaAs photodiode linear array" , Applied Optics, Vol. 45, No. 35, Jan. 2007, 283-286.
27. Dong Bo, He Shiya, Hu Shuyang, Tian Dawei, Lv Junfeng, Guo Tuan, and Zhao Qida, "Combined Time- and Wavelength-Division-Multiplexing Demodulation Technique of Fiber Grating Sensor Arrays Using a Tunable Pulsed Laser" , Applied Optics, Vol. 46, No.7, Feb. 2007, 1015-1018.
28. Tuan Guo, Qida Zhao, Hao Zhang, Chunshu Zhang, Guiling Huang, Lifang Xue, and Xiaoyi Dong, "Temperature-insensitive fiber Bragg grating dynamic pressure sensing system" , Optics Letters, Vol. 31, No. 15, Aug. 2006, 2269-2271.
29. Lifang Xue, Qida Zhao, Jianguo Liu, Guiling Huang, Tuan Guo, and Xiaoyi Dong, "Force sensing with temperature self-compensated based on a loop thin-wall section beam" IEEE Photonics Technology Letters, Vol. 18, No. 1, Jan. 2006, 271-273.
30. Tuan Guo, Qida Zhao, Hao Zhang, Lifang Xue, Guoyu Li, Bo Dong, Bo Liu, Weigang Zhang, Guiyun Kai and Xiaoyi Dong, "Temperature-insensitive fiber Bragg grating force sensor via a bandwidth modulation and optical power detection technique" , Journal of Lightwave Technology, Vol. 24, No. 10, Oct. 2006, 3797-3802.
31. Lifang Xue, Jianguo Liu, Qida Zhao, Tuan Guo, Guiling Huang, and Xiaoyi Dong, "A Novel Method for Independent Tuning of the Center Wavelength and the Bandwidth of Fiber Bragg Grating" , Journal of Lightwave Technology, Vol. 24, No. 5, May 2006, 2238-2241.
32. Hao Zhang, Qingying Dou, Yanli Jin, Tuan Guo, Lihui Liu, Yange Liu, Shuzhong Yuan, and Xiaoyi Dong, "L-Band all-optical gain-clamped erbium-doped fiber amplifier via ASE reflection technique" , Microwave and Optical Technology Letters, Vol. 48, No. 5, May 2006, 852-854.
33. Tuan Guo, Xueguang Qiao, Zhenan Jia, Qida Zhao and Xiaoyi Dong, "Simultaneous measurement of temperature and pressure by a single fiber Bragg grating with a broadened reflection spectrum" , Applied Optics, Vol. 45, No. 13, May 2006, 2935-2939.
34. Lifang Xue, Jianguo Liu, Qida Zhao, Tuan Guo, Guiling Huang, and Xiaoyi Dong, "Simultaneous measurement of stress and temperature with a fiber Bragg grating based on a loop thin-wall section beam" , Applied Optics, Vol. 45, No. 20, Jul. 2006, 4810-4814.
35. Dong Bo, Zhao Qida, Lvjun Feng, Guo Tuan, Xue Lifang, Li Shuhong, and Gu Hong, "Liquid-level sensor with a high-birefringence-fiber loop mirror" , Applied Optics, Vol. 45, No. 30, Oct. 2006, 7767-7771.
36. Xue Luefang, Zhao Qida, Liu Jianguo, Guo Tuan, Huang Guiling, Liu Lihui, "Fiber-optic grating sensing based on thin-walled ring section beam" Acta Physica Sinica, Vol.55, No.6, Jun. 2006, 2804-2808.
37. Tuan Guo, Qida Zhao, Qingying Dou, Hao Zhang, Lifang Xue, Guiling Huang, and Xiaoyi Dong, "Temperature-Insensitive Fiber Bragg Grating Liquid-Level Sensor Based on Bending Cantilever Beam" , IEEE Photonics Technology Letters, Vol. 17, No. 11, Dec. 2005, 2400-2402.