

# Tuan GUO

Institute of Photonics Technology, Jinan University, Guangzhou, 510632, China

Official website <https://ipt.jnu.edu.cn/96/c7/c16173a366279/page.htm>

JLT AE website <https://iee-jlt.org/editorial-board/Tuan-Guo>

Email [tuanguo@jnu.edu.cn](mailto:tuanguo@jnu.edu.cn)

## Career History

[2014-present] Full Professor

[2010-2014] Associate Professor

**Jinan University (China)** [Institute of Photonics Technology](#)

[2008 - 2010] Post-doctoral Fellow

**The Hong Kong Polytechnic University**

Directed by Prof. Hwa-yaw Tam (Head of Photonics, OSA Fellow)

[2007 - 2008] Post-doctoral Fellow

**Carleton University (Canada)**

Directed by Prof. Jacques Albert (Canada Research Chair, OSA Fellow)



## Education

[2004 - 2007] **Nankai University** Ph.D. in Optics

Supervisor Prof. Qida Zhao, study on optical fiber sensing and applications

[1997 - 2004] **Xi'an Shiyu University** M.S. & B.S. in Electronics

Supervisor Prof. Xueguang Qiao, study on optical fiber sensing and applications

## Research Activities & Achievements

- Research on optical fiber sensing, fiber gratings, plasmonics, sensors and instrumentations for biomedical, environmental and renewable energy applications
- Holds 11 research grants as principal investigator (funding over 10,000,000 RMB)
- Authored and coauthored more than 200 papers in peer-reviewed journals and conferences, including Nature Communications and Light: Science & Applications
- Authored 6 tutorial / invited reviews and 1 handbook chapter published by Springer
- Presented over 30 invited talks at academic conferences
- Holds 21 issued / pending patents

## Awards and Honors

[2019] **Guangdong Youth Science and Technology Innovation Leader**

[2018] **Recipient of the Technical Award of the IEEE Instrumentation and Measurement Society**

[2017] **National Natural Science Foundation for Excellent Youth Foundation of China**

[2016/2017/2018] Outstanding Reviewer of IEEE Journal of Lightwave Technology

## Editorial Responsibilities

[2019-present] **Associate Editor** IEEE Journal of Lightwave Technology

[2019-present] **Associate Editor** SCIENCE CHINA Information Sciences

[2017-2018] Guest Editor Journal of Lightwave Technology

[2016-2017] Section Editor Handbook of Optical Fibers (Springer)

[2015-2016] Guest Editor Sensors

[2009-2013] Associate Editor Journal of Sensors

## Academic & Technical Society Responsibilities

- **Co-Chair IEEE Instrumentation & Measurement Society Technical Committee "Photonic Technology in Instrumentation and Measurement"**
- **Senior Member of IEEE**
- **Senior Member of OSA (Optical Society of America)**

Serves as the TPC Associate Chair of the IEEE International Instrumentation and Measurement Technology Conference, 2019 (Auckland, New Zealand), TPC Section Chair of the CLEO Pacific Rim 2018 (Hong Kong), Session Chair of IEEE International Instrumentation and Measurement Technology Conference 2018 (Houston, USA), Session Chair of IEEE International Flexible Electronics Technology Conference 2018 (Ottawa, Canada) and member of over 10 Technical Program Committees

## BOOK CHAPTERS

1. 《**Handbook of Optical Fibers**》, **Springer Nature**, 2017 (Chapter of “Fiber Grating Devices”)  
[https://link.springer.com/referenceworkentry/10.1007/978-981-10-1477-2\\_42-1](https://link.springer.com/referenceworkentry/10.1007/978-981-10-1477-2_42-1)
2. 《**Frontier of Fiber Optics**》, **China Science Press**, 2011 (Chapter of “Optical Fiber Sensing Technology” and Chapter “Fiber Bragg Gratings”)  
<https://baike.baidu.com/item/%E5%85%89%E7%BA%A4%E5%85%89%E5%AD%A6%E5%89%8D%E6%B2%BF/1926695?fr=aladdin>

## PEER REVIEWED PUBLICATIONS (\*corresponding author)

### *Tutorial and Invited Reviews*

1. **Tuan Guo\***, Álvaro González-Vila, Médéric Loyez and Christophe Caucheteur\*, “Plasmonic Optical Fiber-Grating Immunosensing: A Review”, **Sensors**, Vol. 17, Dec. 2017, 2732; doi:10.3390/s17122732. (*Invited Review*)
2. **Tuan Guo\***, Fu Liu, Bai-Ou Guan, and Jacques Albert, "Tilted fiber grating mechanical and biochemical sensors", **Optics & Laser Technology**, Vol. 78, April 2016, 19–33. (*Invited Review*)  
**Selected as top 5 downloaded article and the Web of Science high citation article**
3. **Tuan Guo\***, “Fiber grating assisted surface plasmon resonance for biochemical and electrochemical sensing”, **IEEE Journal of Lightwave Technology**, Vol. 35, No. 16, Aug. 2017, 3323–3333. (*Technical Review*)
4. Christophe Caucheteur, **Tuan Guo\***, Jacques Albert, “Polarization-assisted fiber Bragg grating sensors: tutorial and review”, **IEEE Journal of Lightwave Technology**, Vol. 35, No. 16, Aug. 2017, 3311–3322. (*Tutorial Review*)  
**Selected as top download articles**
5. Christophe Caucheteur, **Tuan Guo**, Jacques Albert, "Review of plasmonic fiber optic biochemical sensors: improving the limit of detection", **Analytical and Bioanalytical Chemistry**, Vol. 407, No. 14, May 2015, 3883–3897. (*Invited Review*)  
**Selected as Front Cover and is listed in the top 10 most downloaded and top 10 most cited articles**
6. Peiguang Yan, Hao Chen, Aijiang Liu, Keyao Li, Shuangchen Ruan, Jinfei Ding, Xuhui Qiu, **Tuan Guo\***, "Self-starting mode-locking by fiber-integrated WS<sub>2</sub> saturable absorber mirror", **Journal of Selected Topics in Quantum Electronics**, Vol. 23, No. 1, Jan. 2017, 1100106. (*Invited Paper*)  
**Selected as the Web of Science high citation article**

### 2020

7. Guangying Wang, Yuan Cao\*, Nan Hu, Xuejun Zhang, **Tuan Guo**, Xinhuan Feng, Bai-ou Guan, Jianping Yao, “High-speed and High-resolution Microwave Photonic Interrogation for Fiber-optic Refractometer with Plasmonic Spectral Combs”, **IEEE Journal of Lightwave Technology**, DOI: 10.1109/JLT.2019.2959665.
8. Sanzhar Korganbayev, Takhmina Ayupova, Madina Shaimerdenova, Marzhan Sypabekova, Aliya Bekmurzayeva, Wilfried Blanc, Salvador Sales, **Tuan Guo**, Carlo Molardi, Daniele Tosi\*, “Fiber Optic Refractive Index Distributed Multi-Sensors by Scattering-Level Multiplexing With

MgO Nanoparticle-Doped Fibers”, *IEEE Sensors Journal*, Vol. 20, No. 5, March 2020, 2504 – 2510.

## 2019

9. Ying Si, Jiajie Lao, Xuejun Zhang, Yuke Liu, Shunshuo Cai, Álvaro González-Vila, Kaiwei Li, Yunyun Huang, Yong Yuan, Christophe Caucheteur and **Tuan Guo\***, “Electrochemical plasmonic fiber-optic sensors for ultra-sensitive heavy metal detection”, *IEEE Journal of Lightwave Technology*, Vol. 37, No. 14, July 2019, 3495-3502.
10. Yuke Liu, Binghao Liang, Xuejun Zhang, Nan Hu, Kaiwei Li, Francesco Chiavaioli, Xuchun Gui, **Tuan Guo\***, “Plasmonic fiber-optic photothermal anemometers with carbon nanotube coatings”, *IEEE Journal of Lightwave Technology*, Vol. 37, No. 13, July 2019, 3373-3380.
11. Xiaoyong Chen, Yinggang Nan, Xuanyue Ma, Haiyang Liu, Wei Liu, Lei Shi\*, and **Tuan Guo\***, “In-Situ Detection of Small Biomolecule Interactions using a Plasmonic Tilted Fiber Grating Sensor”, *IEEE Journal of Lightwave Technology*, Vol. 37, No. 11, 2019, 2792-2799.
12. Zhaochuan Zhang, **Tuan Guo\*** and Bai-Ou Guan, “Reflective Fiber-Optic Refractometer Using Broadband Cladding Mode Coupling Mediated by a Tilted Fiber Bragg Grating and an In-Fiber Mirror”, *IEEE Journal of Lightwave Technology*, Vol. 37, No. 11, 2019, 2815-2819.
13. Dandan Sun, Li-Peng Sun, **Tuan Guo**, and Bai-Ou Guan, “Label-free Thrombin Detection Using a Tapered Fiber-optic Interferometer Aptasensor”, *IEEE Journal of Lightwave Technology*, Vol. 37, No. 11, 2019, 2756-2761.
14. Yinggang Nan, Wenping Xie, Li Min, Shunshuo Cai, Jiasheng Ni, Jun Yi, Xiaoyu Luo, Ke Wang, Ming Nie, Chang Wang\*, Gang-Ding Peng, and **Tuan Guo\***, “Real-Time Monitoring of Wind-Induced Vibration of High-Voltage Transmission Tower Using an Optical Fiber Sensing System”, *IEEE Transactions on Instrumentation and Measurement*, Vol. 69, No. 1, Jan. 2020, 268-274. Xuejun Zhang, Jie Chen, Álvaro González-Vila, Fu Liu, Yuke Liu, Kaiwei Li, and **Tuan Guo\***, “Twist sensor based on surface plasmon resonance excitation using two spectral combs in one tilted fiber Bragg grating”, *Journal of the Optical Society of America B*, Vol. 36, No. 5, May 2019, 1176-1182.
15. Shunshuo Cai, Álvaro González-Vila, Xuejun Zhang, **Tuan Guo** and Christophe Caucheteur\*, “Palladium-coated plasmonic optical fiber gratings for hydrogen detection”, *Optics Letters*, Vol. 44, No. 18, Sept. 2019, 4483-4486.

## 2018

16. Jiajie Lao, Peng Sun, Fu Liu, Xuejun Zhang, Chuanxi Zhao, Wenjie Mai\*, **Tuan Guo\***, Gaozhi Xiao and Jacques Albert, “In Situ Plasmonic Optical Fiber Detection of the State of Charge of Supercapacitors for Renewable Energy Storage”, *Light: Science & Applications*, (2018) 7: 34. DOI 10.1038/s41377-018-0040-y.  
*Selected as Front Cover and highlighted by Nature Photonics, Optics & Photonics News, EurekAlert, Phy.Org., China Science.*
17. Yunyun Huang, Aoxiang Xiao, Guanhua Hou, Hongtao Li, **Tuan Guo**, and Bai-Ou Guan\*, “Photocatalysis in evanescent field: an in-situ approach to studying photocatalytic performance by tracing interfacial refractive index changes and kinetics”, *Journal of Materials Chemistry A*, Vol. 6, 2018, 20513-20522.
18. Jun Zhou, Yunyun Huang\*, Chaoyan Chen, Aoxiang Xiao, Tuan Guo, Bai-Ou Guan, “Improved detection sensitivity of  $\gamma$ -aminobutyric acid based on graphene oxide interface on an optical microfiber”, *Physical Chemistry Chemical Physics*, Vol. 20, 2018, 14117-14123.

19. Rahul Kumar, Wei Han, Dejun Liu, Wai Pang Ng, Richard Binns, Krishna Busawon, Yong Qing Fu, Zabih Ghassemlooy, Christopher Underwood, Khamid Mahkmov, Jinhui Yuan, Chongxiu Yu, Huazhong Shu, Xing Ao Li, **Tuan Guo**, Gerald Farrell, Yuliya Semenova, and Qiang Wu\*, "Optical fibre sensors for monitoring phase transitions in phase changing materials", **Smart Materials and Structures**, Vo. 27, No. 10, Sept 2018, 105021.
20. Xuejun Zhang, Shunshuo Cai, Fu Liu, Hao Chen, Peiguang Yan, **Tuan Guo\*** and Jacques Albert\*, "In Situ Determination of the complex permittivity of ultrathin H<sub>2</sub>-infused palladium coatings with a plasmonic fiber optic sensor in the near infrared", **Journal of Materials Chemistry C**, 2018, Vol. 6, April 2018, 5161–5170.
21. Jiajie Lao, Linzi Han, Ze Wu, Xuejun Zhang, Yunyun Huang, Yong Tang and **Tuan Guo\***, "Gold Nanoparticle-Functionalized Surface Plasmon Resonance Optical Fiber Biosensor: In Situ Detection of Thrombin with 1 nM Detection Limit", **IEEE Journal of Lightwave Technology**, DOI: 10.1109/JLT.2018.2822827.
22. Xuejun Zhang, Ze Wu, Fu Liu, Qiangqiang Fu, Xiaoyong Chen, Jian Xu, Zhaochuan Zhang, Yunyun Huang, Yong Tang, Bai-Ou Guan, **Tuan Guo\*** and Jacques Albert, "Hydrogen peroxide and glucose concentration measurement using optical fiber grating sensors with corrodible plasmonic nanocoatings", **Biomedical Optics Express**, Vol. 9, No. 4, Apr. 2018, 1735–1744.
23. Wanjun Hu, Yunyun Huang\*, Chaoyan Chen, Yuke Liu, **Tuan Guo\***, Bai-Ou Guan, "Highly sensitive detection of dopamine using a graphene functionalized plasmonic fiber-optic sensor with aptamer conformational amplification", **Sensors and Actuators B**, Vol. 264, July 2018, 440-447.
24. Yunyun Huang, Chaoyan Chen, Hongtao Li, Aoxiang Xiao, **Tuan Guo**, Bai-Ou Guan\*, "Insight into the local near-infrared photothermal dynamics of graphene oxide functionalized polymer through optical microfiber", **Physical Chemistry Chemical Physics**, Vol. 20, July 2018, 5256-5263.

## 2017

25. Hao Chen, Jinde Yin, Jingwei Yang, Xuejun Zhang, Mengli Liu, Zike Jiang, Jinzhang Wang, Zhipei Sun, **Tuan Guo**, Wenjun Liu\*, and Peiguang Yan\*, "Transition-metal dichalcogenides heterostructures saturable absorbers for ultrafast photonics", **Optics Letters**, Vol. 42, No. 21, Nov. 2017, 4279–4282.
26. Shunshuo Cai, Yinggang Nan, Wenping Xie, Jun Yi, Xiaoyong Chen, Qiangzhou Rong, Hao Liang, Ming Nie, Gang-Ding Peng and **Tuan Guo\***, "Fiber-Optic Accelerometer using Tilted Grating Inscribed in Depressed Cladding Fibers", **IEEE Photonics Technology Letters**, Vol. 29, No. 24, Dec. 2017, 2171–2174.
27. Qiangzhou Rong\*, **Tuan Guo\***, Weijia Bao, Zhihua Shao, Gangding Peng\*, Xueguang Qiao, "Highly sensitive fiber-optic accelerometer by grating inscription in specific core dip fiber", **Scientific Report**, Vol. 7, No. 11856, Sept. 2017, DOI:10.1038/s41598-017-12322-6.
28. Yunyun Huang, Mingfei Ding, **Tuan Guo\***, Dejiao Hu, Yaoyu Cao, Long Jin, Bai-Ou Guan\*, "Fiber-optic sensor for neurotransmitter with ultralow concentration: Near infrared plasmonic electric field enhancement of raspberry-like meso-SiO<sub>2</sub> nanospheres", **Nanoscale**, Vol. 9, Sept. 2017, 4929–14936.
29. Dandan Sun\*, **Tuan Guo\***, and Bai-Ou Guan, "Label-free Detection of DNA Hybridization Using a Reflective Microfiber Bragg Grating Biosensor with Self-assembly Technique", **IEEE Journal of Lightwave Technology**, Vol. 35, No. 16, Aug. 2017, 3354–3359.
30. Linzi Han, **Tuan Guo\***, Chen Xie, Peng Xu\*, Jiajie Lao, Xuejun Zhang, Jian Xu, Xiaoyong Chen,

- Yunyun Huang, Xing Liang, Wei Mao, and Bai-Ou Guan, "Specific Detection of Aquaporin-2 Using Plasmonic Tilted Fiber Grating Sensors", *IEEE Journal of Lightwave Technology*, Vol. 35, No. 16, Aug. 2017, 3360–3365.
31. Xiaoyong Chen, Fa Du, **Tuan Guo\***, Jiajie Lao, Xuejun Zhang, Zhaochuan Zhang, Fu Liu, Jie Li, Chengkun Chen and Bai-Ou Guan, "Liquid Crystal-Embedded Tilted Fiber Grating Electric Field Intensity Sensor", *IEEE Journal of Lightwave Technology*, Vol. 35, No. 16, Aug. 2017, 3347–3351.
  32. Xiaoyong Chen, Jian Xu, Xuejun Zhang, **Tuan Guo\***, and Bai-Ou Guan, "Wide Range Refractive Index Measurement using a Multi-Angle Tilted Fiber Bragg Grating", *IEEE Photonics Technology Letters*, Vol. 29, No. 9, May 2017, 719–722.
  33. Yunyun Huang, **Tuan Guo**, Zhuang Tian, Bo Yu, Mingfei Ding, Xiangping Li, Bai-Ou Guan\*, "Nonradiation Cellular Thermometry Based on Interfacial Thermally Induced Phase Transformation in Polymer Coating of Optical Microfiber", *ACS Applied Materials & Interfaces*, Vol. 9, No. 10, Feb. 2017, 9024–9028.
  34. Wenlu Zhang, Ruohui Wang, Qiangzhou Rong, Xueguang Qiao, **Tuan Guo**, Zhihua Shao, Jiacheng Li, Wenwen Ma, "An Optical Fiber Fabry–Perot Interferometric Sensor Based on Functionalized Diaphragm for Ultrasound Detection and Imaging", *IEEE Photonics Journal*, Vol. 9, No. 3, June 2017, 7103208.
  35. Yunyun Huang, Bo Yu, **Tuan Guo**, Bai-Ou Guan\*, "Ultrasensitive and in situ DNA detection in various pH environments based on a microfiber with a graphene oxide linking layer", *RSC Advances*, Vol. 7, Feb. 2017, 13177-13183.
  36. Yuan Cao, Xudong Wang, **Tuan Guo**, Yang Ran, Xinhuan Feng, Bai-Ou Guan, "High-resolution and temperature-compensational HER2 antigen detection based on a microwave photonic interrogation", *Sensors and Actuators B*, Vol. 245, June 2017, 583–589.
  37. Yunyun Huang, Mingfei Ding, **Tuan Guo**, Ning Zhang, Zhuang Tian, Li-Peng Sun, Bai-Ou Guan\*, "Ultrasensitive and Label-free Detection of  $\gamma$ -Aminobutyric Acid using Fiber-optic Interferometric Sensors Functionalized with Size-selective Molecular Sieve Arrays", *Sensors and Actuators B*, Vol. 244, June 2017, 934–940.
  38. Bo Yu, Yunyun Huang\*, Jun Zhou, **Tuan Guo**, Bai-Ou Guan, "Real-time, in-situ analysis of silver ions using nucleic acid probes modified silica microfiber interferometry", *Talanta*, Vol. 165, April 2017, 245–250.
  39. Wenlu Zhang, Ruohui Wang, Qiangzhou Rong, Xueguang Qiao, **Tuan Guo**, Zhihua Shao, Jiacheng Li, and Wenwen Ma, "An Optical fiber Fabry-Perot Interferometric Sensor Based on Functionalized Diaphragm for Ultrasound Detection and Imaging", *IEEE Photonics Journal*, Vol. 9, No. 3, June 2017, 7103208.

## 2016

40. Christophe Caucheteur\*, **Tuan Guo\***, Fu Liu, Bai-Ou Guan, Jacques Albert\*, "Ultrasensitive plasmonic sensing in air using optical fibre spectral combs", *Nature Communications*, (2016) 7: 13371. DOI: 10.1038/ncomms13371.
41. **Tuan Guo**, Fu Liu, Xing Liang, Xuhui Qiu, Chen Xie, Peng Xu, Wei Mao\*, Bai-Ou Guan\*, and Jacques Albert, "Highly sensitive detection of urinary protein variations using tilted fiber grating sensors with plasmonic nanocoatings", *Biosensors and Bioelectronics*, Vol. 78, No. 15, April 2016, 221–228.
42. Yong Yuan, **Tuan Guo\***, Xuhui Qiu, Jiahuan Tang, Yunyun Huang, Li Zhuang, Shungui Zhou, Zhaohui Li, Bai-Ou Guan, Xuming Zhang and Jacques Albert, "Electrochemical surface

- Plasmon resonance fiber-optic sensor: in-situ detection of electroactive biofilms", *Analytical Chemistry*, Vol. 88, No. 15, May 2016, 7609–7616.
43. Zhaochuan Zhang, Tuan Guo\*, Xuejun Zhang, Jian Xu, Wenping Xie, Ming Nie, Qiang Wu, Bai-Ou Guan, and Jacques Albert, "Plasmonic fiber-optic vector magnetometer", *Applied Physics Letters*, Vol. 108, No. 10, Mar. 2016, 101105.
  44. Xuhui Qiu, Xiaoyong Chen, Fu Liu, Bai-Ou Guan, Tuan Guo\*, "Plasmonic Fiber-Optic Refractometers Based on a High Q-Factor Amplitude Interrogation", *IEEE Sensors Journal*, Vol. 16, No. 15, Aug. 2016, 5974–5978.
  45. Peiguang Yan, Hao Chen, Keyao Li, Chunyu Guo, Shuangchen Ruan, Jinzhang Wang, Jinfei Ding, Xuejun Zhang, and Tuan Guo\*, "Q-switched fiber laser using a fiber-tip-integrated TI saturable absorption mirror", *IEEE Photonics Journal*, Vol. 8, No. 1, Feb. 2016, 1500506.
  46. Bo Yu, Yunyun Huang\*, Jun Zhou, Tuan Guo, Bai-Ou Guan, "Understanding the pH-dependent interaction between graphene oxide and single-stranded DNA through fiber-optic interferometer", *Physical Chemistry Chemical Physics*, Vol. 18, 2016, 32266-32271.
  47. Mingfei Ding, Yunyun Huang, Tuan Guo, Lipeng Sun, Bai-Ou Guan\*, "Mesoporous nanospheres functionalized optical microfiber biosensor for low concentration neurotransmitter detection", *Optics Express*, Vol. 24, No. 24, Nov. 2016, 27152–27159.
  48. Hao Chen, Yushan Chen, Jinde Yin, Xuejun Zhang, Tuan Guo, and Peiguang Yan, "High-damage-resistant tungsten disulfide saturable absorber mirror for passively Q-switched fiber laser", *Optics Express*, Vol. 24, No. 14, July 2016, 16287–16296.
  49. Hao Chen, Irene Ling Li, Shuangchen Ruan, Tuan Guo, Peiguang Yan, "Fiber-integrated tungsten disulfide saturable absorber (mirror) for pulsed fiber lasers", *Optical Engineering*, Vol. 55, No. 8, Aug. 2016, 081318(10). (*Invited Paper*)
  50. Youqiao Ma, Gerald Farrell, Yuliya Semenova, Binghui Li, Jinhui Yuan, Xinzhu Sang, Binbin Yan, Chongxiu Yu, Tuan Guo, Qiang Wu, "Optical microfiber-loaded surface plasmonic TE-pass polarizer", *Optics & Laser Technology*, Vol. 78, April 2016, 101–105.

## 2015

51. Zhongyue Cai, Fu Liu, Tuan Guo\*, Bai-Ou Guan, Gang-Ding Peng, and Jacques Albert, "Evanescence coupled optical fiber refractometer based a tilted fiber Bragg grating and a D-shaped fiber", *Optics Express*, Vol. 23, No. 16, Aug. 2015, 20971-20976.
52. Yuan Cao, Tuan Guo, Xudong Wang, Dandan Sun, Yang Ran, Xinhuan Feng\*, Bai-ou Guan, "Resolution-improved in-situ DNA hybridization detection based on microwave photonic interrogation", *Optics Express*, Vol. 23, No. 21, Oct. 2015, 27061-27070.
53. Xueguang Qiao, Yupeng Wang, Hangzhou Yang, Tuan Guo, Qiangzhou Rong, Ling Li, Dan Su, Kok-Sing Lim, Harith Ahmad, "Ultrahigh-Temperature Chirped Fiber Bragg Grating Through Thermal Activation", *IEEE Photonics Technology Letters*, Vol. 27, No. 12, June 2015, 1305-1308.

## 2014

54. Tuan Guo, Fu Liu, Yu Liu, Nan-Kuang Chen, Bai-Ou Guan, Jacques Albert, "In-situ detection of density alteration in non-physiological cells with polarimetric tilted fiber grating sensors", *Biosensors and Bioelectronics*, Vol. 55, May 2014, 452-458.
55. Tuan Guo, Fu Liu, Bai-Ou Guan, Jacques Albert, "Polarimetric multi-mode tilted fiber grating sensors", *Optics Express*, Vol. 22, No. 6, Mar. 2014, 7330-7336.

56. Qiangzhou Rong, Xueguang Qiao, **Tuan Guo\***, Weijia Bao, Dan Su, Hangzhou Yang, "Orientation-dependent fiber-optic accelerometer based on grating inscription over fiber cladding", **Optics Letters**, Vol. 39, No. 23, Dec. 2014, 6616-6619.
57. Qiangzhou Rong, Xueguang Qiao, **Tuan Guo\***, Hangzhou Yang, Yanying Du, Dan Su, Ruohui Wang, Hao Sun, Dingyi Feng, and Manli Hu, "High temperature measurement up to 1100 °C using a polarization-maintaining photonic crystal fiber", **IEEE Photonics Journal**, Vol. 6, No. 1, Feb. 2014, 6800309(9).
58. Yupeng Wang, Xueguang Qiao, Hangzhou Yang, Dan Su, Ling Li, **Tuan Guo\***, "Sensitivity-Improved Strain Sensor over a Large Range of Temperatures Using an Etched and Regenerated Fiber Bragg Grating", **Sensors**, Vol. 14, No. 10, Oct. 2014, 18575-18582.
59. Dandan Sun, **Tuan Guo**, Yang Ran, Yunyun Huang, Bai-Ou Guan, " In-situ DNA hybridization detection with a reflective microfiber grating biosensor", **Biosensors and Bioelectronics**, Vol. 61, Nov. 2014, 541-546.
60. Fu Liu, **Tuan Guo**, Chuang Wu, Bai-Ou Guan, Chao Lu, Hwa-Yaw Tam, Jacques Albert, "Wideband-adjustable reflection-suppressed rejection filters using chirped and tilted fiber gratings", **Optics Express**, Vol. 22, No. 20, Oct. 2014, 24430-24438.
61. Yuheng Huang, **Tuan Guo**, Chao Lu, P. K. A. Wai, "Theoretical and experimental study of a code-division multiplexing fiber Bragg grating sensor system", **Fiber and Integrated Optics**, Vol. 33, May 2014, 26–36.
62. Qiang Wu, Jinhui Yuan, Chongxiu Yu, Xinzhu Sang, Lipeng Sun, Jie Li, **Tuan Guo**, Baiou Guan, Haoping Chan, Kin Seng Chiang, Youqiao Ma, Pengfei Wang, Yuliya Semenova, and Gerald Farrell, "UV exposure on a single-mode fiber within a multimode interference structure", **Optics Letters**, Vol. 39, No. 22, Nov. 2014, 6521-6524.

### 2013

63. **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.
64. **Tuan Guo\***, Fu Liu, Fa Du, Zhaochuan Zhang, Chunjie Li, Bai-Ou Guan, Jacques Albert, "VCSEL-powered and polarization-maintaining fiber-optic grating vector rotation sensor", **Optics Express**, Vol. 21, No. 16, Aug. 2013, 19097-19102.  
*Selected as key scientific article of 《Advances in Engineering》 , April, 2014.*
65. Fu Liu, **Tuan Guo\***, Jianguo Liu, Xiaoyang Zhu, Yu Liu, Bai-Ou Guan, Jacques Albert, "High-sensitive and temperature-self-calibrated tilted fiber grating biological sensing probe", **Chinese Science Bulletin**, Vol. 58, No. 21, July 2013, 2611-2615.
66. Qiangzhou Rong, Xueguang Qiao, **Tuan Guo**, Hangzhou Yang, Yanying Du, Dan Su, Ruohui Wang, Dingyi Feng, Manli Hu, and Zhongyao Feng, "Orientation-dependant inclinometer based on intermodal coupling of two-LP-modes in a polarization-maintaining photonic crystal fiber", **Optics Express**, Vol. 21, No. 15, July 2013, 17576-17585.
67. Nan-Kuang Chen, Tsung-Hsun Yang, Yi-Ning Chen, **Tuan Guo**, and Bai-Ou Guan, "High sensitivity stretched-abrupt-tapered Mach-Zehnder interferometer with optical attractive force for active microsensing applications", **Applied Physics Letters**, Vol. 102, No. 17, Apr. 2013, 171101.
68. 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*, Vol. 13, No. 5, May 2013, 1473-1477.

69. Jing Zhang, Hao Sun, Ruohui Wang, Dan Su, **Tuan Guo**, Zhongyao Feng, Manli Hu, and Xueguang Qiao, "Simultaneous measurement of refractive index and temperature using a michelson fiber interferometer with a Hi-Bi fiber probe", *IEEE Sensors Journal*, Vol. 13, No. 6, Jun. 2013, 2061-2065.

## 2012

70. **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.
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72. 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.
73. Jing Zhang, Xueguang Qiao, **Tuan Guo**, Ruohui Wang, Yue Ma, Manli Hu, Zhongyao Feng, "Highly-sensitive temperature sensor using a Hi-Bi fiber tip probe," *IEEE Sensors Journal*, Vol. 12, No. 6, Jun. 2012, 2077-2080.
74. Yue Ma, Xueguang Qiao, **Tuan Guo**, Ruohui Wang, Jing Zhang, Yinyan Weng, Qiangzhou Rong, Manli Hu, 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.
75. Qiangzhou Rong, Xueguang Qiao, **Tuan Guo**, Ruohui Wang, Jing Zhang, Manli Hu, Zhongyao Feng, Yinyan Weng, 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.

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#### **International Conference Proceedings (Invited Presentation)**

103. **Tuan Guo\***, "Flexible Electrochemical Plasmonic Optical Fiber Sensors", **IEEE International Flexible Electronics Technology Conference 2018** (Ottawa, Canada), August 2018. **(Invited talk)**
104. **Tuan Guo\***, "Plasmonic fiber-optic sensors," **Light Conference 2018** (Changchun), July, 2018. **(Invited talk)**
105. **Tuan Guo\***, "Plasmonic fiber-optic biochemical and electrochemical sensing," **International Conference of Biomedical Information Perception & Microsystems 2018** (Chengdu), July, 2018. **(Invited talk)**
106. **Tuan Guo\***, "Plasmonic fiber-optic electrochemical sensing for renewable energy storage," **Global Optical Information and Network Conference 2018** (Beijing), May, 2018. **(Invited talk)**
107. **Tuan Guo\***, "Fiber grating assisted surface plasmon resonance for biochemical and

- electrochemical sensing," *SPIE Photonics Europe 2018* (Strasbourg, France), April, 2018. *(Invited talk)*
108. Tuan Guo\*, "Plasmonic fiber-optic sensing," *The 13<sup>rd</sup> National Laser Technology and Optoelectronic Conference 2018* (Shanghai), March, 2018. *(Invited talk)*
  109. Tuan Guo\*, "Tilted fiber grating assisted surface Plasmon resonance for mechanical, biochemical and electrochemical sensing," *The 2<sup>nd</sup> International Conference: Fibre-optic and Photonic Sensors for Industrial and Safety Applications 2017* (Brisbane, Australia), January, 2017. *(Keynote talk)*
  110. Tuan Guo\*, "Optofluidics over plasmonic fiber-optic biosensors," *The 7<sup>th</sup> International Multidisciplinary Conference on Optofluidics 2017* (Singapore), July, 2017. *(Invited talk)*
  111. Tuan Guo\*, "Plasmonic tilted fiber grating sensors," *The 22<sup>nd</sup> OptoElectronics and Communications Conference 2017* (Singapore), July, 2017. *(Invited talk)*
  112. Tuan Guo\*, "Plasmonic fiber-optic sensors," *The collaborative conference on Materials Research 2017* (Korea), June, 2017. *(Invited talk)*
  113. Tuan Guo\*, "Plasmonic fiber-optic biomedical and electrochemical sensors," *The 15<sup>th</sup> International Conference on Optical Communications and Networks 2016* (Hangzhou), September, 2016. *(Invited talk)*
  114. Tuan Guo\*, "Optofluidics over plasmonic fiber-optic biomedical and electrochemical sensors," *The 6<sup>th</sup> International Multidiscipline Conference on Optofluidics 2016* (Beijing), July 2016. *(Invited talk)*
  115. Tuan Guo\*, "Plasmonic tilted fiber grating biomedical and electrochemical sensors," *The 2<sup>nd</sup> International Congress on Biomaterials & Biosensors 2016* (Istanbul), June, 2016. *(Invited talk)*
  116. Tuan Guo\*, "Surface Plasmon resonance fiber grating sensors," *EMN Meeting on Quantum Communication and Quantum Imaging 2016*, (Berlin), August, 2016. *(Invited talk)*
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128. **Tuan Guo\***, "Recent development of tilted fiber grating biosensors," *The 5<sup>th</sup> International Conference on Microwave and Photonics 2013* (Dhanbad, India), December, 2013. **(Invited talk)**
129. **Tuan Guo\***, Bai-Ou Guan, Hwayaw Tam, Jacques Albert, "New Developments in Tilted Fiber Bragg Gratings for Structural and Biochemical Sensing," *The 11<sup>th</sup> International Conference on Optical Instrumentation and Technology 2011* (Beijing), 8201-74, November, 2011. **(Invited talk)**

#### ***International and National Conference Proceedings (Contributed Presentation)***

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131. Xiaoyong Chen, Yinggang Nan, Xuejun Zhang, **Tuan Guo\***, "Improvement of Refractive Index Measurement Range using a Plasmonic Multi-angle Tilted Fiber Bragg Grating," *IEEE International Instrumentation and Measurement Technology Conference* (Houston, USA), May. 2018.
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- based tilted fiber grating vibration sensing system," *CLEO 2011* (Maryland, USA) Mar. 2011.
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### **Natinal Journal Publications (in Chinese)**

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## MANUSCRIPT REVIEWER

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