

# Publication List

## Journals

- **N.M.Y. Zhang**, K. Li, T. Zhang, P. Shum, Z. Wang, Z. Wang, N. Zhang, J. Zhang, T. Wu and L. Wei, "Electron-Rich Two-Dimensional Molybdenum Trioxides for Highly Integrated Plasmonic Biosensing," *ACS Photonics* 5(2), (2018).
- **N.M.Y. Zhang**, K. Li, P.P. Shum, X. Yu, S. Zeng, Z. Wu, Q.J. Wang, K.T. Yong and L. Wei, "Hybrid Graphene/Gold Plasmonic Fiber-Optic Biosensor," *Advanced Materials Technologies*, 2(2), (2017).
- **N.M.Y. Zhang**, D.J.J. Hu, Shum, Z. Wu, K. Li, T. Huang and L. Wei, "Design and analysis of surface plasmon resonance sensor based on high-birefringent microstructured optical fiber," *Journal of Optics*, 18(6), 065005, (2016).
- **N.M.Y. Zhang**, X. Dong, P. P. Shum, D. J. J. Hu, H. Su, W. S. Lew and L. Wei, "Magnetic Field Sensor Based on Magnetic-Fluid-Coated Long-Period Fiber Grating," *Journal of Optics*, 17(6), 065402 (2015).
- K. Li, **N.M.Y. Zhang**, N. Zhang, T. Zhang, G. Liu and L. Wei, "Spectral characteristics and ultrahigh sensitivity near the dispersion turning point of optical microfiber couplers," *Journal of Lightwave Technology* PP(99), (2018).
- K. Li, N. Zhang, **N.M.Y. Zhang**, G. Liu, T. Zhang and L. Wei, "Ultrasensitive measurement of gas refractive index using an optical nanofiber coupler," *Optics letters*, 43(4), (2018).
- J. Zhang, K. Li, T. Zhang, P.J.S Buenconsejo, M. Chen, Z. Wang, **N.M.Y. Zhang**, Z. Wang, and L. Wei, "Laser-Induced In-Fiber Fluid Dynamical Instabilities for Precise and Scalable Fabrication of Spherical Particles," *Advanced Functional Materials*, 27(43), (2017).
- N. Zhang, G. Humbert, Z. Wu, K. Li, P.P. Shum, **N.M.Y. Zhang**, Y. Cui, J.L. Auguste, X.Q. Dinh and L. Wei, "In-line optofluidic refractive index sensing in a side-channel photonic crystal fiber," *Optics Express*, 24(24), 27674-27682, (2016).
- K. Li, T. Zhang, G. Liu, N. Zhang, **N.M.Y. Zhang** and L. Wei, "Ultrasensitive optical microfiber coupler based sensors operating near the turning point of effective group index difference," *Applied Physics Letters*, 109(10), 101101, (2016).
- K. Li, T. Zhang, N. Zhang, **N.M.Y. Zhang**, J. Zhang, T. Wu, S. Ma, J. Wu, M. Chen, Y. He and L. Wei, "Integrated liquid crystal photonic bandgap fiber devices," *Frontiers of Optoelectronics*, 9(3), 466-482, (2016).

## Conferences

- **N.M.Y. Zhang**, K. Li, T. Zhang, P. Shum, Z. Wang, Z. Wang, N. Zhang, J. Zhang, T. Wu and L. Wei, "Layered Molybdenum Trioxides as Two-Dimensional Plasmonic Material for Highly Integrated and Flexible Biosensing," Accepted by *MRS Spring Meeting & Exhibit*, Materials Research Society, (2018).
- J. Zhang, K. Li, **N.M.Y. Zhang**, T. Zhang and L. Wei, "High-Q silicon microsphere whispering gallery mode resonator fabricated by laser induced in-fiber capillary instability," In *Conference on Lasers and Electro-Optics/Pacific Rim (CLEO-PR)*, IEEE (2017).
- **N.M.Y. Zhang**, K.Li, P.P. Shum, X.Yu, S.Zeng, Z.Wu, Q. J. Wang, K.T. Yong and L. Wei, "Graphene Enhanced Surface Plasmon Resonance Fiber-Optic Biosensor," In *CLEO: Science and Innovations (SM4P-4)*, Optical Society of America (2016).
- **N.M.Y. Zhang**, D.J.J. Hu, P.P. Shum, Z. Wu, K. Li, T. Huang and L. Wei, "High-Birefringent Microstructured Optical Fiber Based Surface Plasmon Resonance Sensor," In *CLEO: Applications and Technology (JTU5A-116)*, Optical Society of America (2016).
- N. Zhang, G. Humbert, K. Li, Z. Wu, **N.M.Y. Zhang**, P.P. Shum, Y. Cui, J.L. Auguste, X.Q. Dinh and L. Wei, "In-Line Optofluidic Sensor Based on a Long-Period Grating in a Side-Channel Photonic Crystal Fiber," In *CLEO: Science and Innovations (SM2P-2)*, Optical Society of America (2016).
- K. Li, T. Zhang, G. Liu, N. Zhang, **N.M.Y. Zhang** and L. Wei, "Extraordinary sensitivity in optical microfiber based refractive index sensors near the turning point of turning point of effective group index difference," In *Asia Communications and Photonics Conference (AF1B-5)*, Optical Society of America (2016).
- **N.M.Y. Zhang**, X. Dong, P. P. Shum, D. J. J. Hu, H. Su, W. S. Lew and L. Wei, "Highly Sensitive Magnetic Field Sensor Using Long-Period Fiber Grating," In *Conference on Lasers and Electro-Optics/Pacific Rim (CLEO-PR)*, 27F2\_3, Optical Society of America (2015).