

Complete list of publications of Pengcheng Zhao

Further publications:

A) Publications with peer review process

Journal Articles

1. Guo L., **Zhao P.***, Ho H.L., Jiang S., Bao H., Gao S., Wang Y. and Jin W.*, (2023) Pump-probe-alternating photothermal interferometry for two-component gas sensing. *Optics Letters* (Accepted). (Publishers' letter of acceptance enclosed)
2. Guo L., Bao H.*, Chen F., **Zhao P.**, Jiang S., Ho H.L., and Jin W.*, (2023) Ultra-Compact Optical Fiber Gas Sensor with High Sensitivity, Fast Response and Large Dynamic Range, In: *Journal of Lightwave Technology*. (Accepted) (Publishers' letter of acceptance enclosed)
3. **Zhao, P.***, Ho, H. L., Fan, S., & Jin, W*. (2023). Evanescent Wave Lab-on-Fiber for High Sensitivity Gas Spectroscopy with Wide Dynamic Range and Long-Term Stability. *Laser & Photonics Reviews*, 2200972.
4. **Zhao, P.**, Ho, H. L., Jin, W.*, Fan, S.*, Gao, S., & Wang, Y. (2021). Hollow-core fiber photothermal methane sensor with temperature compensation. *Optics Letters*, 46(11), 2762-2765.
5. Jin, W.*, Bao, H., **Zhao, P.**, Zhao, Y., Qi, Y., Wang, C., & Ho, H. L. (2021). Recent advances in spectroscopic gas sensing with micro/nano-structured optical fibers. *Photonic Sensors*, 11, 141-157.
6. Jin, W., Bao, H., Qi, Y., Zhao, Y., **Zhao, P.**, Gao, S., & Ho, H. L. (2021). Micro/nano-structured optical fiber laser spectroscopy. *Acta optica Sinica*, 41 (1), 0130002.
7. **Zhao, P.**, Ho, H. L., Jin, W.*, Fan, S.*, Gao, S., Wang, Y., & Wang, P. (2020). Gas sensing with mode-phase-difference photothermal spectroscopy assisted by a long period grating in a dual-mode negative-curvature hollow-core optical fiber. *Optics Letters*, 45(20), 5660-5663.
8. **Zhao, P.**, Zhao, Y., Bao, H., Ho, H. L., Jin, W.*, Fan, S.*, ... & Wang, P. (2020). Mode-phase-difference photothermal spectroscopy for gas detection with an anti-resonant hollow-core optical fiber. *Nature communications*, 11(1), 847.

Conference Proceedings

9. **Zhao, P.†**, Krishnaiah, K. V.†, Guo, L., Li, T., Ho, H. L., Zhang, A. P.*, & Jin, W.* (2023). High-sensitivity fiber-tip photothermal gas sensor based on a 3D μ -printed fabry-pérot microcavity. *Optical Fiber Sensors*, (Oral, Accepted).
10. Guo, L., **Zhao, P.***, Ho, H. L., Jiang, S., Bao, H., Gao, S., Wang, Y., & Jin, W.* (2023). Two-component photothermal gas sensor with a pump-probe-alternating technique. *Optical Fiber Sensors*, (Poster, Accepted)
11. **Zhao, P.**, Fan, S., Ho, H. L., & Jin, W.* (2022, August). Microfiber evanescent-wave photothermal methane sensor with sub-ppm sensitivity. In *Optical Fiber Sensors* (pp. Th3-5). Optica Publishing Group.

12. **Zhao, P.***, Ho, H. L., Jin, W., Fan, S., Gao, S., Wang, Y., & Wang, P. (2020, October). LP₀₁-LP₁₁ mode conversion in a negative curvature hollow-core fiber by use of a long-period grating. In *Asia Communications and Photonics Conference* (pp. M4A-118). Optica Publishing Group.
13. Jin, W.*, Bao, H., **Zhao, P.**, Qi, Y., & Ho, H. L. (2020, July). High Sensitivity Gas Detection with Microstructured Optical Fibres. In 2020 22nd *International Conference on Transparent Optical Networks (ICTON)* (pp. 1-4). IEEE.
14. **Zhao, P.***, Zhao, Y., Bao, H., Ho, H. L., Jin, W., Fan, S., ... & Wang, P. (2020, June). Ultrasensitive photothermal gas sensor with a dual-mode anti-resonant hollow-core fiber. In *Optical Fiber Sensors* (pp. W3-7). Optica Publishing Group.

B) Submitted publications with peer review process

C) Submitted manuscripts without peer review process

Zhao, P.†, Krishnaiah, K. V.†, Guo, L., Li, T., Ho, H. L., Zhang, A. P.*, & Jin, W.* (2023). Ultraminiature optical fiber-tip 3D-microprinted photothermal interferometric gas sensors. *Advanced Photonics*, Submitted. (publisher's acknowledgement of receipt enclosed)

D) Patents

1. Jin W., **Zhao P.**, Ho H.L. System and method for the concentration detection of fluid. Submitted as: CN Patent (Application No. CN201911243218.9A, application date 06.12.2019)

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The following above mentioned publications have evolved from my doctoral dissertation: A3-8, A11-A14, D1