

<Journal Paper>

1. X. Guo, z. Jia, Y. Jiao, Z. Li, c. Yao, M. Hu, Y. Ohishi, W. Qin, and G. Qin, “25.8 W All-Fiber Mid-Infrared Supercontinuum Light Source Based on Fluorotellurite Fibers”, IEEE Photonics Technology Letters, Vol. 34, No. 7, pp. 367-370, April 2022. Doi:10.1109/LPT.2022.3158813
2. F. Zhang, B. Li, X. Chen, Y. Gao, X. Yan, X. Zhang, F. Wang, T. Suzuki, Y. Ohishi, and T. Cheng, “A Magnetic Field Sensor Based on Birefringence Effect in Asymmetric Four-hole Fiber”, Journal of lightwave technology, Vol. 40, No. 8, pp. 2594-2600, April 2022. Doi: 10.1109/JLT.2021.3135271
3. J. Wang, Z. Jia, C. Zhang, Y. Sun, Y. Ohishi, W. Qin, and G. Qin, “Thulium-doped fluorotellurite glass fibers for broadband S-band amplifiers”, Optics Letters, Vol. 47, No. 8, pp. 1964-1967, April 2022. Doi: 10.1364/OL.452107
4. Y. Jiao, F. Meng, Z. Jia Q. Guo, Y. Yu, C. Zheng, Y. Ohishi, and G. Qin, “ Cascaded Raman amplifiers based on fluorotellurite fibers”, Optical Materials Express, Vol. 12, No. 6, pp. 2309-2317, June 2022. Doi:10.1364/OME.458540
5. T. H. Tuan, A. Koumura, A. Nakatani, H. P. T. Nguyen, M. Matsumoto, G. Sakai, T. Suzuki, and Y. Ohishi, “Chalcogenide all-solid hybrid microstructured optical fiber with polarization maintaining mid-infrared supercontinuum generation”, Optics Express, Vol. 30, No. 14, pp. 25433-25449, July 2022. Doi: 10.1364/OE.459745
6. T. Cheng, X. Chen, Q. Wang, X. Yan, X. Zhang, T. Suzuki, Y. Ohishi, and F. Wang, “Frequency conversions of nine peaks based on dispersive waves and solitons in a tellurite microstructured optical fiber”, Optics Letters, Vol. 47, No. 13, pp. 3215-3218, July 2022. Doi: 10.1364/OL.464239
7. W. Liu, D. Song, Z. Yin, F. Zhang, B. Li, X. Zhang, F. Wang, T. Suzuki, Y. Ohishi, and T. Cheng, “Multimode interferometric sensor based on the no-core tellurite optical fiber for cryogenic temperature detection”, Optics Express, Vol. 30, No. 15, pp. 26238-26250, July 2022. Doi: 10.1364/OE.463059
8. T. Cheng, F. Zhang, B. Li, W. Liu, C. Xiaoyu, Y. Gao, X. Yan, X. Zhang, F. Wang, T. Suzuki, and Y. Ohishi, “A Sagnac Interferometer Ultraviolet Sensor based on ZnO-coated No-core Fiber,” Journal of lightwave Technology, Vol. 40, No. 13, pp. 4474-4480, July 2022. Doi: 10.1109/JLT.2022.3161675
9. T. Cheng, W. Liu, D. Song, Z. Yin, F. Zhang, B. Li, X. Zhang, T. Suzuki, Y. Ohishi, and F. Wang, “A compact fluorescent probe for real-time thermal monitoring of chips”, Journal of Lightwave Technology, Vol. 40, No. 18, pp. 6288-6295, September 2022. Doi :10..1109/JLT.2022.3191995:
10. T. Cheng, B. Li, F. Zhang, W. Liu, X. Chen, Y. Gao, X. Yan, X. Zhang, F. Wang, T. Suzuki, and Y. Ohishi, “A Sagnac Interferometer-based Twist Angle Sensor Drawing on an Eccentric Dual-core Fiber”, IEEE Transactions on Instrumentation and Measurement, Vol. 71, #7006108,

11. B. Li, F. Zhang, W. Liu, X. Chen, Y. Gao, Q. Zhang, X. Yan, F. Wang, X. Zhang, T. Suzuki, Y. Ohishi, and T. Cheng, "Fluorescent Optical Fiber Intensity Ratio Temperature Sensor Based on Polymer Matrix Using Down-Conversion from ZnS:Cu", IEEE Transactions on Instrumentation and Measurement, Vol. 71, August 2022. Doi: 10.1109/TIM.2022.3198760
12. Y. Ohishi, "Supercontinuum generation and IR image transportation using soft glass optical fibers: a review [Invited]", Optical Materials Express, Vol. 12, No. 10, pp. 3990-4046, Oct. 2022. Doi: 10.1364/OME.462792
13. W. Liu, D. Song, Z. Yin, F. Zhang, B. Li, F. Wang, X. Zhang, X. Yan, T. Suzuki, Y. Ohishi, and T. Cheng, "Plug-in tip sensor based on up-conversion fluorescence in Er³⁺/Yb³⁺ co-doped tellurite glass for thermal monitoring of miniature winding coil", Optics Letters, Vol. 47, No. 20, pp. 5297-5300, October 2022. Doi: 10.1364/OL.473041
14. T. Cheng, X. Chen, Q. Wang, Y. Gao, B. Li, N. Yang, X. Yan, X. Zhang, T. Suzuki, Y. Ohishi, Z. Liu, and F. Wang, "Experimental Investigation of Supercontinuum Generation in a Birefringence Tellurite Microstructured Optical Fiber", Applied Optics, Vol. 61, No. 32, pp. 9749-9754, November 2022. Doi: 10.1364/AO.473596
15. W. Liu, Z. Yin, D. Song, F. Zhang, B. Li, F. Wang, X. Zhang, X. Yan, T. Suzuki, Y. Ohishi and T. Cheng, "A Reliable Anti-Interference Probe Based on Fluorescence Intensity Ratio Technique for Cryogenic Temperature Detection", Journal of Lightwave Technology, Vol. 40, No. 21, pp. 7219-7225, November 2022. Doi: 10.1109/JLT.2022.3200387
16. X. Chen, Y. Gao, Q. Wang, B. Li, X. Yan, X. Zhang, F. Wang, T. Suzuki, Y. Ohishi, and T. Cheng, "A Self-phase Modulation Effect Temperature Sensor Based on Tapered Single-mode Optical Fiber", IEEE Transactions on Instrumentation and Measurement, Vol. 71, #7008308, October 2022. Doi: 10.1109/TIM.2022.3217848
17. K. Chen, W. FANG, X. Ma, Y. Zhou, W. Zhang, X. Chen, S. Huang, M. Liao, Y. Ohishi, W. Gao, "Spatial mode and wavelength switchable erbium-doped fiber laser based on a fiber beam shaper", Optics Express, Vol. 30, No. 26, pp. 47452-47462, December 2022. Doi: 10.1364/OE.478928
18. W. Fang, X. Ma, Y. Zhou, W. Zhang, X. Chen, S. Huang, M. Liao, Y. Ohishi, and W. Gao, "Transverse mode switchable fiber laser with a multimodal interference-based beam shaper", Optics Letters, Vol. 48, No. 1, pp. 53-56, January 2023. Doi: 10.1364/OL.478033
19. A. Nakatani, M. Matsumoto, G. Sakai, T. Suzuki, and Y. Ohishi, "A method of determining the refractive index of glasses in wide mid-infrared", Japanese Journal of Applied Physics, Vol. 62, No. 1, pp. 012005-1-6, January 2023. Doi: 10.35848/1347-4065/acabf2
20. 大石泰丈, 鈴木健伸, "高非線形微細構造光ファイバによる広帯域中赤外コヒーレント光の発生", レーザー研究, 第 51 卷, 第 1 号, pp. 27-31, 2023 年 1 月.

21. X. Chen, Y. Gao, Q. Wang, F. Zhang, B. Li, X. Yan, X. Zhang, F. Wang, T. Suzuki, and Y. Ohishi, "Temperature sensing characteristics of two fundamental solitons in a glycerin-filled microstructured optical fiber", IEEE Transactions on Instrumentation and Measurement, Vol. 72, February 2023. Doi: 10.1109/TIM.2023.3242000

<Proceedings>

1. J. de. Clermont-Gallaerande, T. Suzuki, A. Nakatani, T; H. Tuan, and Y. Ohishi, "Pseudo-disordered tellurite-based oxide fiber", 第 83 回応用物理学会秋季学術講演会, 23P-A406-5, 東北大学 川内北キャンパス、2022 年 9 月 20 日～23 日。
2. T. H. Tuan, A. Koumura, A. Nakatani, H. P. T. Nguyen, M. Matsumoto, G. Sakai, T. Suzuki, and Y. Ohishi, "Fabrication and supercontinuum generation in a chalcogenide all-solid hybrid microstructured optical fiber with polarization maintaining properties", Frontiers in Optics + Laser Science 2022, JW4A.10, Rochester, USA, October 17-20, 2022. Doi: 10.1364/FIO.2022.JW4A.10
3. T. H. Tuan, A. Koumura, A. Nakatani, G. Sakai, M. Matsumoto, T. Suzuki, and Y. Ohishi, "Polarization-maintaining chalcogenide all-solid hybrid microstructured optical fibers and their mid-infrared supercontinuum generation", Photonics West 2023, SPIE Opto, Proc. of SPIE Vol. 12417, pp. 1241715-1-10, San Francisco, USA, January 28- February 2, 2023.
4. 小柳大司, 中谷明日佳, Tong Honag Tuan, 鈴木健伸, 大石泰丈, "赤外イメージ伝送用 空気・テルライトランダム断面構造光ファイバの作製", The 33rd Meeting on Glasses for Photonics, 要旨集 pp. 10-11, 豊田工業大学 4F 教室, 2023 年 3 月 15 日。
5. J. de Clermont-Gallerande, T. Suzuki, A. Nakatani, and Y. Ohishi, "Beam Propagation Method Simulation Results for Tellurite-Based Oxide Multicore Fibers", The 33rd Meeting on Glasses for Photonics, 要旨集 pp. 8-9, 豊田工業大学 4F 教室, 2023 年 3 月 15 日。