

<Journal Paper>

- 1 H. T. Tong, N. Nishiharaguchi, T. Suzuki, and Y. Ohishi, "Fabrication of a novel tellurite hollow core optical fiber", *Journal of the Ceramic Society of Japan*, Vol. 127, No. 4, pp. 187-190, April 2019. Doi: 10.2109/jcersj2.18195
- 2 C. Yao, Z. Jia, Q. Li, G. Qin, M. Hu, Y. Ohishi, and W. Qin, "Amplification of wavelength-shifting soliton in active photonic crystal fibers", *Applied Physics Letters*, Vol. 112, pp. 161105-1-5, April 2019. Doi: 10.1063/1.5009368.
- 3 X. Luo, T. H. Tuan, T. S. Saini, H. P. T. Nguyen, T. Suzuki, and Y. Ohishi, "Tunable and switchable all-fiber dual-wavelength mode locked laser based on Lyot filtering effect", *Optics Express*, Vol. 27, No. 10, pp. 14635–14647, May 2019. Doi: 10.1364/OE.27.014635.
- 4 W. Gao, P. Gao, X. Zhang, Z. Zhang, W. Jiang, Y. Zhou, W. Zhang, L. Chen, P. Wang, L. Chen, P. Wang, M. Liao, T. Suzuki, and Y. Ohishi, "Multi-wavelength Brillouin-erbium fiber laser with more than 95 lines based on a dual-ring structure" *Japanese Journal of Applied Physics*, Vol. 58, No. 8, pp. 082003-1-4, July 2019. Doi: 10.7567/1347-4065/ab2e80.
- 5 X. Luo, T. H. Tuan, T. S. Saini, H. P. T. Nguyen, T. Suzuki, and Y. Ohishi, "All-fiber supercontinuum source pumped by noise-like pulse mode locked laser", *IEEE Photonics Technology Letters*, Vol. 31, No. 15, pp. 1225-1228, August 2019. Doi:10.1109/LPT.2019.2922437.
- 6 Z. Li, C. Yao, Z. Jia, F. Wang, G. Qin, Y. Ohishi, and W. Qin, "Broadband supercontinuum generation from 600 to 5400 nm in a tapered fluorotellurite fiber pumped by a 2010 nm femtosecond fiber laser", *Applied Physics Letters*, Vol. 115, No. 9, pp. 091103-1-5, August 2019. Doi: 10.1063/1.5110313
- 7 T. Cheng, Y. Xiao, S. Li, X. Yan, X. Zhang, T. Suzuki, and Y. Ohishi, "Highly efficient second harmonic generation in a tellurite optical fiber", *Optics Letters*, Vol. 44, No. 19, pp. 4686-4689, October 2019. Doi:10.1364/OL.44.004686.
- 8 T. Cheng, F. Zhang, S. Tanaka, S. Li, X. Yan, X. Zhang, T. Suzuki, and Y. Ohishi, "Ultrafast All-Optical Signal Modulation Induced by Optical Kerr Effect in a Tellurite Photonic Bandgap Fiber", *Photonics*, Vol. 6, No.4, pp. 113-1-8, October 2019. Doi: 10.3390/photonics6040113.
- 9 H. T. Tong, N. Nishiharaguchi, T. Suzuki, and Y. Ohishi, "Mid-infrared transmission by a tellurite hollow core optical fiber", *Optics Express*, Vol. 27, No. 21, pp. 30576-30588, October 2019. Doi: 10.1364/OE.27.030576.
- 10 H. T. Tong, N. Nishiharaguchi, T. Suzuki, and Y. Ohishi, "Fabrication of a tellurite hollow core optical fiber with six non-touching cladding air holes", *Journal of the Ceramic Society of Japan*, Vol. 127, No. 12, pp. 918-923, December 2019. Doi: 10.2109/jcersj2.19142.
- 11 W. Gao, P. Wang, W. Jiang, Z. Zhang, X. Zhang, P. Gao, W. Zhang, M. Liao, T. Suzuki, Y. Ohishi, and

Y. Zhou, "Numerical study on mid-infrared optical parametric amplification around 5 μ m by injecting signal vector beams in As₂Se₃ MOFs", *Journal of the Optical Society of America B*, Vol. 36, No. 12, pp. 3348-3356, December 2019. Doi: 10.1364/JOSAB.36.003348.

12. T. S. Saini, T. H. Tuan, T. Suzuki, and Y. Ohishi, "Coherent Mid-IR Supercontinuum Generation using Tapered Chalcogenide Step-Index Optical Fiber: Experiment and modelling", *Scientific Reports*, Vol. 10, Article Number 2236, February 10th, 2020. Doi: 10.1038/s41598-020-59288-6.
13. W. Gao, X. Zhang, W. Jiang, Z. Zhang, P. Gao, L. Cheng, P. Wang, W. Zhang, R. Wang, M. Liao, T. Suzuki, and Y. Ohishi, "Characteristics of vector beams in mid-infrared waveband in an As₂Se₃ photonic crystal fiber with small hollow core", *Optical Fiber Technology*, Vol. 55, pp. 102152-1-6, January 2020. Doi: 10.1016/j.yofte.2020.102152.
14. Y. Sun, X. Yan, F. Wang, X. Zhang, S. Li, T. Suzuki, Y. Ohishi, and T. Cheng, "Theoretical Investigation of an Alcohol-Filled Tellurite Photonic Crystal Fiber Temperature Sensor Based on Four-Wave Mixing", *Sensors*, Vol. 20, No. 4, pp. 1007-1-10, February 2020. Doi: 10.3390/s20041007
15. M. A. Hughes, H. Li, R. J. Curry, T. Suzuki, and Y. Ohishi, "Energy transfer in Cr and Nd co-doped Si-B-Na-Al-Ca-Zr-O glasses", *Journal of Noncrystalline Solids*, Vol. 530, pp. 119769-1-8, February 2020. Doi: 10.1016/j.jnoncrysol.2019.119769
16. X. Luo, T. H. Tuan, T. S. Saini, H. P. T. Nguyen, T. Suzuki, and Y. Ohishi, "Switchable dual-wavelength mode-locked fiber laser using Sagane loop mirror", *Optics Communications*, Vol. 463, pp.125457-1-5, February 2020. Doi: 10.1016/j.optcom.2020.125457.
17. H. P. T. Nguyen, T. H. Tuan, M. Matsumoto, G. Sakai, T. Suzuki, and Y. Ohishi, "Mid-infrared supercontinuum generation with high spectral flatness in dispersion flattened tellurite all-solid hybrid microstructured optical fibers", *Japanese Journal of Applied Physics*, Vol. 59, No. 4, pp. 042002-1-9, March 2020. Doi: 10.35848/1347-4065/ab7ddc.
18. X. Luo, T. H. Tuan, T. S. Saini, H. P. T. Nguyen, T. Suzuki, and Y. Ohishi, "All-fiber mode-locked laser based on Mamyshev mechanism with high-energy pulse generation at 1550 nm", *Journal of Lightwave Technology*, Vol. 38, No. 6, pp. 1468-1473, March 2020. Doi: 10.1109/JLT.2019.2954488.

<Proceedings>

1. Y. Yang, H. Cai, M. Liao, Y. Ohishi, W. Bi, X. Li, and T. Suzuki, "Multi-octave-spanning supercontinuum generation in lead fluoride crystal", *CLEO2019, JTu2A.91*, May 5-10, 2019, San Jose, USA.
2. H. P. T. Nguyen, T. H. Tong, X. Luo, T. S. Saini, T. Suzuki, and Y. Ohishi, "Experimental Demonstration of Highly Coherent Near to Mid-Infrared Supercontinuum Generation with All-solid Hybrid Microstructured Tellurite Fiber", *CLEO2019, JW2A.109*, May 5-10, 2019, San Jose, USA.

3. T. H. Tuan, N. Nishiharaguchi, T. Suzuki, and Y. Ohishi, "Light propagation properties of a novel tellurite hollow-core fiber with single hexagonal air-hole layer", CLEO2019, JW2A.96, May 5-10, 2019, San Jose, USA.
4. T. S. Saini, H. P. T. Nguyen, X. Luo, T. H. Tuan, T. Suzuki, and Y. Ohishi, "Demonstration of the Coherent Mid-IR Supercontinuum Generation in Tapered Tellurite Fiber", CLEO2019, JW2A.93, May 5-10, 2019, San Jose, USA.
5. H. T. Tong, K. Miura, N. Nishiharaguchi, T. Suzuki, and Y. Ohishi, "Suppressing 1.06 μm Emission of Nd^{3+} Ions in Tellurite All Solid Photonic Bandgap Fibers With Double Cladding" CLEO Europe-EQEC 2019, CE-P.12, June 23-27, 2019, Munich, Germany.
6. T. Cheng, S. Li, X. Yan, T. Suzuki, and Y. Ohishi, "Cascaded Stimulated Raman Scattering in a Chalcogenide optical fiber", CLEO Europe-EQEC 2019, CJ-P.36, June 23-27, 2019, Munich, Germany.
7. X. Luo, T. Tuan, T. Saini, H. Nguyen, T. Suzuki, and Y. Ohishi, "Dual –wavelength dual-comb mode locked Er-doped fiber laser based on Saganc fiber loop mirror", CLEO Europe-EQEC 2019, CJ-P.56, June 23-27, 2019, Munich, Germany.
8. H. P. T. Nguyen, H. T. Tong, T. S. Saini, X. Luo, T. Suzuki, and Y. Ohishi, "A tellurite all-solid hybrid microstructured fiber with ultra-small chromatic dispersion fluctuation", CLEO Europe-EQEC 2019, CD-P.30, June 23-27, 2019, Munich, Germany.
9. T. S. Saini, H. P. T. Nguyen, X. Luo, T. H. Tong, T. Suzuki, and Y. Ohishi, "Coherent Mid-IR Supercontinuum Generation using Tapered Chalcogenide Step-Index Fiber", CLEO Europe-EQEC 2019, CD-P.32, June 23-27, 2019, Munich, Germany.
10. H. P. T. Nguyen, T. H. Tuan. T. Suzuki, and Y. Ohishi. "Tellrite all-solid hybrid microstructured optical fibers for highly coherent mid-infrared supercontinuum generation", 24th Optoelectronics and Communications Conference/ International Conference on Photonics in Switching and Computing 2019, (OECC/PSC2019), WP4-C11, July 7-11, 2019, Fukuoka, Japan.
11. T. H. Tuan, K. Suzaki, N. Nishiharaguchi, T. Suzuki, and Y. Ohishi, "The Reduction of 1.06- μm Emission in a Double Cladding Tellurite All-solid Photonic Bandgap Fiber Doped with Neodymium Ions", paper No. 10, ICETE2019 (16th International Joint Conference on e-Business and Telecommunications), PP. 271-274, Prague - Czech Republic July 26 - 28, 2019.
12. H.T. Tong, N. Nishiharaguchi, T. Suzuki, and Y. Ohishi, "Propagation of mid-infrared light in a tellurite hollow core optical fiber with non-touching capillary tubes", FiO+LS2019, FM3C.2, September 15-19, 2019, Washington DC, USA.
13. X. Luo, H.T. Tong, T. S. Saini, H. Nguyen, T. Suzuki, and Y. Ohishi, "Demonstration of an all-fiber dual-wavelength mode locked laser based on lyot filtering effect", FiO+LS2019, JW4A.40, September 15-19, 2019, Washington DC, USA.

14. (Keynote Speech) Y. Ohishi, "Soft Glass Optical Fibers and Their Applications", World Congress on Lasers, Optics, and Photonics, pp. 56, September 23-25, 2019, Barcelona, Spain.
15. T. H. Tuan, K. Suzuki, T. Suzuki, and Y. Ohishi, "Nd³⁺-doped tellurite all solid photonic bandgap fiber with one-dimensional asymmetric periodic structure", OSA Laser Congress 2019, JW2A.5, September 29-October 3, 2019, Vienna, Austria.
16. H. P. T. Nguyen, T. H. Tuan, T. S. Saini, T. Suzuki, and Y. Ohishi, "Highly coherent supercontinuum generation in chalcogenide all-solid hybrid microstructured optical fibers", OSA Laser Congress 2019, JM5A.18, September 29-October 3, 2019, Vienna, Austria.
17. (Invited) Y. Ohishi, "Soft glass highly nonlinear fibers and applications", SPIE Photonics Asia 2019, #11181-15, October 20-23, 2019, Hangzhou, China. ペーパー無し
18. C. Yao, Z. Jia, Q. Li, G. Qin, M. Hu, Y. Ohishi, and W. Qin, "Amplification of wavelength-shifting soliton in active photonic crystal fibers", SPIE Photonics Asia 2019, #11192-18, October 20-23, 2019, Hangzhou, China. ペーパー無し
19. X. Zhang, W. Jiang, Z. Zhang, P. Gao, L. Chen, P. Wang, W. Zhang, Y. Zhou, M. Liao, T. Suzuki, Y. Ohishi, and W. Gao, "Mid-infrared vector beams in selenide photonic crystal fiber with small hollow core and their application on supercontinuum generation", SPIE Photonics Asia 2019, pp. 111950V-1-11, October 20-23, 2019, Hangzhou, China.
20. (Invited) Y. Ohishi, "Soft glass microstructured optical fibers and their applications", 6th International Workshop on Specialty Optical Fiber and Their Applications, pp. 112060A-1-4, November 6-8, 2019, Charleston, USA.
21. T. H. Tuan, N. Nishiharaguchi, T. Suzuki, and Y. Ohishi, "Fabrication of a tellurite hollow core optical fiber for mid-infrared transmission", 6th International Workshop on Specialty Optical Fiber and Their Applications, pp. 112061K-1-5, November 6-8, 2019, Charleston, USA.
22. X. Luo, T. H. Tuan, T. S. Saini, H. P. T. Nguyen, T. Suzuki, and Y. Ohishi, "Noise-like pulse pumped all-fiber supercontinuum laser source", 6th International Workshop on Specialty Optical Fiber and Their Applications, pp. 112061N-1-3, November 6-8, 2019, Charleston, USA.
23. Z. Li, C. Yao, Z. Jia, F. Wang, G. Qin, Y. Ohishi, and W. Qin, "Broadband Supercontinuum Generation from 600 to 5400nm in a Tapered Fluorotellurite Fiber" The 42nd PIERS in Xiamen, CHINA, 17 - 20 December 2019. ペーパー無し
24. T. H. Tuan, N. Nishiharaguchi, T. Suzuki, and Y. Ohishi, "Fabrication of a tellurite hollow-core optical fiber for mid-infrared transmission", SPIE Photonics West 2020, 112761F-1-7, San Francisco, USA, February 1-6, 2020.
25. T. S. Saini, H. P. T. Nguyen, L. Xing, T. H. Tuan, T. Suzuki, and Y. Ohishi, "Demonstration of mid-IR supercontinuum generation using all-normal dispersion engineered tapered

chalcogenide fiber”, SPIE Photonics West 2020, 112640A-1-6, San Francisco, USA, February 1-6, 2020.

26. H. P. T. Nguyen, H. T. Tong, T. S. Saini, X. Luo, T. Suzuki, and Y. Ohishi, “Mid-infrared supercontinuum generation in an all-solid hybrid microstructured optical fiber”, SPIE Photonics West 2020, 112641T-1-7, San Francisco, USA, February 1-6, 2020.
27. Y. Li, L. Wang, M. Liao, L. Zhang, W. Bi, T. Xue, Y. Liu, R. Zhang, and Y. Ohishi, “Suspended-core fluoride fiber for broadband supercontinuum generation”, SPIE Photonics West 2020, 112641Y-1-6, San Francisco, USA, February 1-6, 2020.
28. L. Xing, T. H. Tuan, T. S. Saini, H. P. T. Nguyen, T. Suzuki, and Y. Ohishi, “Linear Er-doped fiber Mamyshchev regenerator with high pulse energy generation”, SPIE Photonics West 2020, 1126602E-1-7, San Francisco, USA, February 1-6, 2020.
1. 久田凌希、石原純、大石泰文、半田太郎、小池俊輔、「遷音速・超音速風洞における速度計測を目的としたフェムト秒レーザーで励起した窒素の発光特性に関する研究」、第 51 回流体力学講演会 / 第 37 回航空宇宙数値シミュレーション技術シンポジウム、#2B06、2019 年 7 月 1 日～3 日、早稲田大学 早稲田キャンパス 国際会議場。
2. (Invited)鈴木健伸、大石泰文、「低融点ガラス特殊ファイバの作製と赤外応用」、2019 年電子情報通信学会通信ソサイエティ大会、#BI-11-7、2019 年 9 月 10 日～13 日、pp. SS167-SS168, 大阪大学、豊中キャンパス。
3. 中谷明日佳, Tong Hoang Tuan, 鈴木健伸, 大石泰文, “低新規構造のテルライトランダム断面構造光ファイバによる赤外伝送イメージ品質の向上 ”, 第 60 回ガラスおよびフォトニクス材料討論会, 1P21, 2019 年 12 月 4 日, 大阪府立大学 1-site なんば.
4. (Invited)大石泰文、鈴木健伸、「高非線形光ファイバによる広帯域中赤外光の発生」、レーザー学会学術講演会第 40 回年次大会、S10-20p-X-05、2020 年 1 月 20 日～22 日、仙台国際センター。
5. (Invited) 大石泰文、「高非線形光ファイバによる光波の創生制御」、第 37 回ニューガラスフォーラム若手懇談会、2020 年 2 月 17 日、ニューガラスフォーラム会議室、東京都新宿区。