

<Journal Paper>

1. T. Cheng, S. Tanaka, T. H. Tuan, T. Suzuki, and Y. Ohishi, "All-optical dynamic photonic bandgap control in an all-solid double-clad tellurite photonic bandgap fiber", *Optics Letters*, Vol. 42, No. 12, pp. 2354-2357, June 15, 2017. Doi: 10.1364/OL.42.002354.
2. Z. Jia, C. Yao, S. Jia, F. Wang, S. Wang, Z. Zhao, G. Qin, Y. Ohishi, and W. Qin, "4.5 W supercontinuum generation from 1017 to 3438 nm in an all-solid fluorotellurite fiber", *Applied Physics Letters*, Vol. 110, No. 26, pp. 1-4, June 2017. Doi: 10.1063/1.4990681.
3. T. Cheng, W. Gao, X. Xue, T. Suzuki, and Y. Ohishi, "Fourth-order cascaded Raman shift in a birefringence ZBLAN fluoride fiber", *Optical Fiber Technology*, Vol. 36, pp. 245-248, July 2017. Doi: 10.1016/j.yofte.2017.04.005.
4. K. Nagasaka, L. Liu, T. H. Tuan, T. Cheng, M. Matsumoto, H. Tezuka, T. Suzuki, and Y. Ohishi, "Numerical investigation of highly coherent mid-infrared supercontinuum generation in chalcogenide double-clad fiber", *Optical Fiber Technology*, Vol. 36, pp. 82-91, July 2017. Doi: 10.1016/j.yofte.2017.03.002.
5. T. Cheng, X. Xue, W. Gao, T. Suzuki, and Y. Ohishi, "The Second-Order Raman Stokes Stronger Than the First-Order Raman Stokes Due to Inverse Raman Scattering in a Single Mode Tellurite Fiber", *IEEE Journal of Quantum Electronics*, Vol. 53, No. 4, 6800504, August 2017. Doi: 10.1109/JQE.2017.2711249.
6. K. Nagasaka, L. Liu, T. H. Tuan, T. H. Tuan, T. Cheng, M. Matsumoto, H. Tezuka, T. Suzuki, and Y. Ohishi, "Supercontinuum generation in chalcogenide double-clad fiber with near zero-flattened normal dispersion profile", *Journal of Optics*, Vol. 19, pp. 1-9, August 2017. Doi: 10.1088/2040-8986/aa787b.
7. T. H. Tuan, N. P. T. Hoa, T. Suzuki, and Y. Ohishi, "Suppressing chromatic dispersion fluctuation for broadband optical parametric gain in highly nonlinear tellurite microstructured optical fibers", *Optical Review*, Vol. 24, No. 6, pp. 757-764, October 2017. Doi: 10.1007/s10043-017-0377-0.
8. C. Yao, Z. Zhao, Z. Jia, Q. Li, G. Qin, Y. Ohishi, and W. Qin, "Enhancement of phase-matched third harmonic generation via soliton self-frequency shift cancellation in a fluorotellurite microstructured fiber", *Applied Physics Letters*, Vol. 111, No. 15, pp. 151103-1-5, October 2017. Doi: 10.1063/1.4993636.
9. C. Ni, W. Gao, X. Chen, L. Chen, Y. Zhou, W. Zhang, J. Hu, M. Liao, T. Suzuki, and Y. Ohishi, "Theoretical investigation on mid-infrared cascaded Raman fiber laser based on tellurite fiber", *Applied Optics*, Vol. 56, No. 33, pp. 9171-9178, November 2017. Doi: 10.1364/AO.56.009171.
10. Q. Li, L. Liu, Z. Jia, G. Qin, Y. Ohishi, and W. Qin, "Increased Red Frequency Shift in Coherent Mid-Infrared Supercontinuum Generation From Tellurite Microstructured Fibers", *Journal of Lightwave Technology*, Vol. 35, No. 21, pp. 4740-4746, November 2017. Doi: 10.1109/JLT.2017.2759183.

11. T. H. Tuan, Z. Duan, D. Deng, T. Suzuki, and Y. Ohishi, “Fabrication and supercontinuum generation in a tellurite hybrid microstructured optical fiber with near-zero and flattened chromatic dispersion control”, Journal of the Ceramic Society of Japan, Vol. 125, No. 12, pp.876-880, December 2017. Doi:10.2109/jcersj2.17135.
- .12 L. Chen, W. Gao, L. Chen, P. Wang, C. Ni, X. Chen, Y. Zhou, W. Zhang, J. Hu, M. Liao, T. Suzuki, and Y. Ohishi, “Numerical study on supercontinuum generation by different optical modes in AsSe₂-As₂S₅ chalcogenide Microstructured Fiber”, Applied Optics, Vol. 57, No. 3, pp. 382-390, January 2018. Doi: 10.1364/AO.57.000382.
13. T. H. Tuan, D. Demichi, K. Nagasaka, T. Suzuki, and Y. Ohishi, “Suppressing 1.06-μm spontaneous emission of neodymium ions using a novel tellurite all-solid photonic bandgap fiber”, Optics Communications, Vol. 415, pp. 87-92, January 2018. Doi: 10.1016/j.optcom.2017.01.031.
14. S. Jia, Z. Jia, C. Yao, L. Zhang, Y. Feng, G. Qin, Y. Ohishi, and W. Qin, “2875 nm Lasing From Ho³⁺ - Doped Fluoroindate Glass Fibers”, IEEE Photonics Technology Letters, Vol. 30, No. 4, pp. 323-326, February 2018. Doi: 10.1109/LPT.2017.2787119.
15. T. S. Saini, N. P. T. Hoa, K. Nagasaka, X. Luo, T. H. Tuan, T. Suzuki, and Y. Ohishi, “Coherent midinfrared supercontinuum generation using a rib waveguide pumped with 200 fs laser pulses at 2.8 μm”, Applied Optics, Vol. 57, No. 7, pp. 1689-1693, March 2018. Doi: 10.1364/AO.57.001689.

<Proceedings >

1. T. H. Tuan, N. P. T. Hoa, H. Kawamura, T. Suzuki, and Y. Ohishi, “Chromatic dispersion fluctuation and optical parametric amplification performance in a tellurite hybrid microstructured optical fiber with buffer layer”, CLEO2017, JTU5A.120, May 14th-19th, 2017, San Jose, USA.
2. T. Cheng, X. Xue, T. H. Tuan, W. Gao, T. Suzuki, and Y. Ohishi, “Experimental Investigation of Inverse Raman Scattering in a Single Mode Tellurite Fiber”, CLEO2017, JW2A.43, May 14th-19th, 2017, San Jose, USA.
3. K. Nagasaka, T. H. Tuan, M. Matsumoto, H. Tezuka, T. Suzuki, and Y. Ohishi, “Mid-infrared Supercontinuum Generation in Chalcogenide Double Clad Fiber”, CLEO2017, JW2A.44, May 14th-19th, 2017, San Jose, USA.
4. (Invited) Y. Ohishi, “Highly nonlinear soft glass optical fibers and their applications”, The 12th Pacific Rim Conference on Ceramic and Glass Technology, GOMD-S5-007-2017, May 21st-26th, 2017, Hawaii, USA. 発表日 : May 22nd.
5. W. Gao, C. Ni, X. Chen, L. Chen, Z. Wen, W. Zhang, X. Xue, T. Cheng, T. Suzuki, and Y. Ohishi, “Flat Supercontinuum Generation in a Silica Photonic Crystal Fiber by Triple Wavelength Pumping”, 2017 Conference on Lasers and Electro-Optics Europe & European

Quantum Electronics Conference (CLEO®/Europe-EQEC 2017), ca-p-9, June 25-29, 2017, Munich, Germany. 発表日 : June 27th.

6. T. H. Tuan, S. Tanaka, T. Suzuki, and Y. Ohishi, "Dynamic bandgap control in a double cladding tellurite photonic bandgap fiber", 2017 Conference on Lasers and Electro-Optics Europe & European Quantum Electronics Conference (CLEO®/Europe-EQEC 2017), ce-p-8, June 25-29, 2017, Munich, Germany. 発表日 : June 26th.
7. K. Nagasaka, T. H. Tuan, T. Suzuki, and Y. Ohishi, "Modeling of dispersion flattened chalcogenide double clad fibers for midinfrared light generation", 2017 Conference on Lasers and Electro-Optics Europe & European Quantum Electronics Conference (CLEO®/Europe-EQEC 2017), cf-p-17, June 25-29, 2017, Munich, Germany. 発表日 : June 28th.
8. T. H. Tuan, H. Kawamura, T. Suzuki, and Y. Ohishi, "Suppressing the Effect of Dispersion Fluctuation on Broadband Optical Parametric Amplification using Highly Nonlinear Tellurite Microstructured Optical Fibers", 14th International Joint Conference on e-Business and Telecommunications (ICETE 2017), Vol. 5, pp. 54-58, July 24-26, 2017 Madrid, Spain.
9. (Invited) Y. Ohishi, T. Cheng, K. Nagasaka, T. H. Tuan, T. Suzuki, M. Matsumoto, and H. Teuzka, "Mid-infrared Supercontinuum Generation in Chalcogenide Optical Fibers", S2622, 2017 CLEO Pacific Rim Conference, (CLEO-PR2017), July 31- August 4, 2017, Singapore.
10. T. H. Tuan, D. Demichi, T. Suzuki, and Y. Ohishi, "Suppressing 1.06-mm spontaneous emission of Neodymium by using a tellurite all-solid photonic bandgap fiber", OSA Frontiers in Optics + Laser Science APS/DLS, JT2A.33, September 17-22, 2017, Washington DC, USA.
11. T. Cheng, S. Tanaka, T. H. Tuan, T. Suzuki, and Y. Ohishi, "Fabrication and Characterization of an All-solid Double-clad Tellurite Photonic Bandgap Fiber", OSA Frontiers in Optics + Laser Science APS/DLS, JW4A.77T, September 17-22, 2017, Washington DC, USA.
12. X. Xue, T. Cheng, T. Suzuki, and Y. Ohishi, "Optical Temperature Sensing in NaYSiO₄:Er³⁺/Yb³⁺ Upconvesion Phosphors", OSA Frontiers in Optics + Laser Science APS/DLS, JW4A.106, September 17-22, 2017, Washington DC, USA.
13. L. Liu, K. Nagasaka, T. Suzuki, and Y. Ohishi, "Effects of Fluctuations of Pulse Duration and Peak Power on the Coherence Properties of Supercontinuum Spectra", OSA Frontiers in Optics + Laser Science APS/DLS, JW4A.122, September 17-22, 2017, Washington DC, USA.
14. T. H. Tuan, S. Kuroyanagi, T. Suzuki, and Y. Ohishi, "Infrared image transport through an all-solid tellurite optical glass rod with transversely-disordered refractive index profile", OSA Laser Congress 2017, JTh2A. 1, October 1-5, 2017, Nagoya, Japan.
15. M. Liao, Y. Yang, W. Bi, X. Li, W. Gao, Y. Ohishi, L. Hu, Y. Fang, and Y. Li, "Multi-Octave-Spanning Supercontinuum Generation in Lead Fluoride Crystal", OSA Laser Congress 2017, JTh2A. 8, October 1-5, 2017, Nagoya, Japan.

16. N. Li, F. Wang, C. Yao, Z. Jia, Y. Feng, M. Hu, G. Qin, Y. Ohishi, and W. Qin, “Coherent supercontinuum generation from 1.4 to 4 μ m in a tapered fluorotellurite microstructured fiber”, OSA Laser Congress 2017, JTU2A. 23, October 1-5, 2017, Nagoya, Japan.
17. W. Gao, C. Ni, X. Chen, Z. Wen, T. Cheng, T. Suzuki, and Y. Ohishi, “Stimulated Raman Scattering in Hybrid Chalcogenide Microstructured Optical Fibers”, OSA Laser Congress 2017, JTUA. 18, October 1-5, 2017, Nagoya, Japan.
18. T. H. Tuan, D. Demichi, T. Suzuki, and Y. Ohishi, “Tailoring 1.33- μ m spontaneous emission of Neodymium-ion by a novel tellurite all-solid photonic bandgap fiber”, 7th International Workshop on Photoluminescence in Rare Earths: Photonic Materials and Devices (PRE’17), #49, November 30-December 2, 2017, Rome, Italy.
19. T. Suzuki, S. Takemoto, and Y. Ohishi, “Energy transfer Cr³⁺→Er³⁺ in transparent oxyfluoride glass-ceramics”, 7th International Workshop on Photoluminescence in Rare Earths: Photonic Materials and Devices (PRE’17), #67, November 30-December 2, 2017, Rome, Italy.
20. X. Xue, T. Suzuki, and Y. Ohishi, “Intense blue upconversion emission in Tm³⁺, Yb³⁺ co-doped NaYSiO₄ phosphors”, 7th International Workshop on Photoluminescence in Rare Earths: Photonic Materials and Devices (PRE’17), #108, November 30-December 2, 2017, Rome, Italy.
21. T. H. Tuan, S. Kuroyanagi, T. Suzuki, and Y. Ohishi, “All-solid tellurite optical fiber with transversely disordered refractive index profile and its optical image transport performance”, Photonics West 2018, Proc. of SPIE Vol. 10528, pp. 105281O-1-7, January 27-February 1, 2018, San Francisco, USA.
22. T. H. Tuan, D. Demichi, T. Suzuki, and Y. Ohishi, “Tailoring Nd³⁺ emission spectrum by using a Neodymium-doped tellurite all-solid photonic bandgap fiber”, Photonics West 2018, Proc. of SPIE Vol. 10528, pp. 105281P-1-6, January 27-February 1, 2018, San Francisco, USA.
23. L. Liu, K. Nagasaka, T. Suzuki, and Y. Ohishi, “Mid-infrared frequency conversion via normal dispersion modulation instability in chalcogenide fibers”, Photonics West 2018, Proc. of SPIE Vol. 10528, pp. 105281S-1-7, January 27-February 1, 2018, San Francisco, USA.
24. K. Nagasaka, T. H. Tuan, H. P. T. Nguyen, T. Suzuki, and Y. Ohishi, “Far-detuned four-wave mixing for mid-infrared wavelength conversion in chalcogenide As₂S₅ suspended core fiber”, Photonics West 2018, Proc. of SPIE Vol. 10528, pp. 105281M-1-6, January 27-February 1, 2018, San Francisco, USA.
25. T. Cheng, S. Li, X. Yan, T. H. Tuan, M. Matsumoto, S. Cho, T. Suzuki, and Y. Ohishi, “Experimental investigation cascaded stimulated Raman in chalcogenide optical fiber”, Photonics West 2018, Proc. of SPIE Vol. 10528, pp. 105281J-1-7, January 27-February 1, 2018, San Francisco, USA.

1. (Invited) 大石泰丈, “高非線形微細構造光ファイバの開発と応用“, 第 1 回超高速光エレクトロニクス研究会, 2017 年 6 月 14 日, 名古屋大学東山キャンパス内ベンチャービジネスラボラトリー
2. 野田海斗, 鈴木健伸, 大石泰丈, “低フォノンエネルギーアルカリ土類アルミノガレートガラスの作製”, 第 58 回ガラスおよびフォトニクス材料討論会, PA-26, 2017 年 11 月 2 日～3 日, 名古屋国際会議場.
3. 畔柳俊英, Tong Hoang Tuan, 長坂憲士朗, 鈴木健伸, 大石泰丈, “ランダム断面構造光ファイバの作製と赤外イメージ伝送”, 第 58 回ガラスおよびフォトニクス材料討論会, PA-27, 2017 年 11 月 2 日～3 日, 名古屋国際会議場.
4. 長坂憲志朗, Tong Hoang Tuan, Tonglei Cheng, 鈴木健伸, 大石泰丈, “カルコゲナイトファイバを用いた中赤外スーパーコンティニューム光発生”, レーザー学会第 511 回研究会「ファイバレーザー技術」, 2017 年 11 月 10 日, 名古屋大学 ベンチャー・ビジネス・ラボラトリー3 階 ベンチャーホール.
5. 野田海斗, 鈴木健伸, 大石泰丈, “低フォノンエネルギー $\text{CaO}\text{-}\text{Al}_2\text{O}_3\text{-}\text{Ga}_2\text{O}_3$ ガラスの作製”, 第 65 回応用物理学会春季学術講演会, 19a-P5-2, 2018 年 3 月 19 日, 早稲田大学西早稲田キャンパス.
6. 梅村侑史, 熊澤正樹, 鈴木健伸, 大石泰丈, “太陽光励起ファイバレーザ用 Cr^{3+} , Nd^{3+} 共添加 $\text{Li}_2\text{O}\text{-}\text{Ga}_2\text{O}_3\text{-}\text{Al}_2\text{O}_3\text{-}\text{SiO}_2$ 系結晶化ガラスの発光特性”, 日本セラミックス協会 2018 年年会, 1P116, 2018 年 3 月 15 日～17 日, 発表日 : 3 月 15 日, 東北大学 (川内北キャンパス) .