

<Journal Paper>

1. T. Suzuki, S. Masaki, K. Mizuno, and Y. Ohishi, "Preparation of Novel Transparent Glass-Ceramics Containing Fluoride Crystals", *Opt. Mater.*, Vol. 33, pp. 1943-1947, April 2011.
2. T. Suzuki, H. Kawai, H. Nasu, M. Hughes, Y. Ohishi, S. Mizuno, H. Ito, and K. Hasegawa, "Quantum efficiency of Nd³⁺-doped glasses under sunlight excitation", *Opt. Mater.*, Vol. 33, pp. 1952-1957, April 2011.
3. S. Mizuno, H. Ito, K. Hasegawa, H. Kawai, H. Nasu, M. A. Hughes, T. Suzuki, and Y. Ohishi, "Spectroscopic properties of Er doped and Er, Nd codoped fluoride glasses under simulated sunlight illumination", *Opt. Mater.*, Vol. 33, pp. 1958-1963, April 2011.
4. M. Liao, X. Yan, Z. Duan, T. Suzuki, and Y. Ohishi, "Tellurite Photonic Nanostructured Fiber", *J. Lightwave Technol.*, Vol.29, No. 7, pp. 1018-1025, April 2011.
5. G. S. Qin, X. Yan, M. Liao, A. Mori, T. Suzuki, and Y. Ohishi, "Wideband Supercontinuum Generation in Tapered Tellurite Microstructured Fibers", *Laser Physics*, Vol. 21, No. 6, pp. 1115-1121, May 2011.
6. T. Yamashita and Y. Ohishi, "Optical Amplification and Laser Oscillation Characteristics of Tb³⁺-doped Fluoride Glass Fiber", *R&D Review of Toyota CRDL*, Vol. 42, No. 2, pp. 33-45, June 2011.
7. Z. Duan, M. Liao, X. Yan, C. Kito, T. Suzuki, and Y. Ohishi, "Tellurite Composite Microstructured Optical Fibers with Tailored Chromatic Dispersion for Nonlinear Applications", *Applied Physics Express*, Vol. 4, pp. 072502-1-3, July 2011.
8. G.S. Qin, X. Yan, C. Kito, M. Liao, T. Suzuki, A. Mori, and Y. Ohishi, "Widely Tunable Narrowband Soliton Source Generation in Tellurite Microstructured Fibers", *Laser Physics*, Vol. 21, No. 8, pp. 1404-1409, July 2011.
9. T. Suzuki, T. W. Shiosaka, S. Miyoshi, and Y. Ohishi, "Computational and Raman Studies of Phospho-Tellurite Glasses as Ultrabroad Raman Gain Media", *J. Non-Cryst. Solids*, Vol. 357, No. 14, pp. 2702-2707, July 2011.
10. M. Liao, X. Yan, W. Gao, Z. Duan, G. Qin, T. Suzuki, and Y. Ohishi, "Five-order SRSs and supercontinuum generation from a tapered tellurite microstructured fiber with longitudinally varying dispersion", *Optics Express*, Vol. 19, No. 16, pp. 15389-15396, August 2011.
11. X. Yan, G. Qin, M. Liao, T. Suzuki, and Y. Ohishi, "Transient Raman response effects on the soliton self-frequency shift in tellurite microstructured optical fiber", *J. Opt. Soc. Am. B*, Vol. 28, No. 8, pp. 1831-1836, August 2011.
12. T. Suzuki, H. Kawai, H. Nasu, S. Mizuno, H. Ito, K. Hasegawa, and Y. Ohishi, "Spectroscopic investigation of Nd³⁺-doped ZBLAN glass for solar-pumped lasers", *J. Opt. Soc. Am. B*, Vol. 28, No. 8, pp. 2001-2006, August 2011.
13. T. Kohoutek, X. Yan, T. W. Shiosaka, S. N. Yannopoulos, A. Chrissanthopoulos, T. Suzuki, and Y. Ohishi, "Enhanced Raman gain of Ge-Ga-Sb-S chalcogenide glass for highly nonlinear microstructured optical fibers", *J. Opt. Soc. Am. B*, Vol. 28, No.9, pp. 2284-2290, September 2011.

14. W. Gao, M. Liao, X. Yan, C. Kito, T. Kohoutek, T. Suzuki, M. El-Amraoui, J. C. Jules, G. Gadret, F. Désévéday, F. Smektala, and Y. Ohishi, “Visible Light Generation and Its Influence on Supercontinuum in Chalcogenide As_2S_3 Microstructured Optical Fiber”, *Appl. Phys. Express*, Vol. 4, pp.102601-1-3, September 2011.
15. M. Liao, Z. Duan, W. Gao, X. Yan, T. Suzuki, and Y. Ohishi, “Dispersion engineering of tellurite holey fiber with holes formed by two glasses for highly nonlinear applications”, *Applied Physics B: Lasers and Optics*, Vol.15, No. 4, pp. 681-684, November 2011.
16. M. Liao, W. Gao, Z. Duan, X. Yan, T. Suzuki, and Y. Ohishi, “Directly draw highly nonlinear tellurite microstructured fiber with diameter varying sharply in a short fiber length”, *Optics Express*, Vol. 20, No. 2, pp. 1141-1150, January 2012.
17. X. Yan, C. Kito, S. Miyoshi, M. Liao, T. Suzuki, and Y. Ohishi, “Raman transient response and enhanced soliton self-frequency shift in ZBLAN fiber”, *J. Opt. Soc. Am. B*, Vol. 29, No. 2, pp. 238-242, February 2012.
18. S. Mizuno, H. Ito, K. Hasegawa, T. Suzuki, and Y. Ohishi, “Laser emission from a solar-pumped fiber”, *Optics Express*, Vol. 20, No. 6, pp. 5891-5895, March 2012.
19. W. Gao, M. Liao, L. Yang, X. Yan, T. Suzuki, and Y. Ohishi, “All-fiber broadband supercontinuum source with high efficiency in a step-index high nonlinear silica fiber”, *Applied Optics*, Vol. 51, No. 8, pp. 1071-1075, March 2012.

<Books>

1. 大石泰丈(分担執筆), エヌティーエス, 「セラミックス機能化ハンドブック」, 平成 23 年 1 月
2. T. Suzuki, G. S. Murugan, and Y. Ohishi, *Research Signpost*, “Photonic Glasses and Glass-Ceramics”, June 2011

<Proceedings>

1. X. Yan, M. Liao, T. H. Tuan, T. Suzuki, and Y. Ohishi, “Tellurite composite microstructured optical fibers with high nonlinearity and flattened dispersion for nonlinear application”, *SPIE Europe Optics and Optoelectronics 2011*, Proc. of SPIE, Vol. 8073, pp. 80732W-1-7, Prague, Czech Republic, April 2011.
2. M. Liao, G. Qin, X. Yan, C. Chaudhari, T. Suzuki, and Y. Ohishi, “Tellurite suspended nanowire surrounded with large holes for single-mode SC and THG generations”, *SPIE Europe Optics and Optoelectronics 2011*, Proc. of SPIE, Vol. 8073, pp.80732I-1-11, 2 Prague, Czech Republic, April 2011.
3. X. Yan, M. Liao, T. H. Tuan, T. Suzuki, and Y. Ohishi, “Tellurite/Phosphate Composite Microstructured Optical Fiber with High Nonlinearity and Flattened Dispersion”, *CLEO Europe 2011*, CE_P31, Munich, Germany, May 2011.

4. Z. Duan, M. Liao, X. Yan, C. Kito, T. Suzuki, and Y. Ohishi, "Tellurite Composite Microstructured Fibers with Tailed Chromatic Dispersion for Nonlinear Applications", CLEO Europe 2011, CI_P4, Munich, Germany, May 2011.
5. T. Kohoutek, X. Yan, T. W. Shiosaka, S. Mizuno, S. N. Yannopoulos, T. Suzuki, and Y. Ohishi, "Transient Raman Response of Novel Chalcogenide Micro-structured Optical Fiber", CLEO Europe 2011, CE_P30, Munich, Germany, May 2011.
6. M. Liao, X. Yan, G. Qin, C. Kito, T. Suzuki, and Y. Ohishi, "Tellurite Suspended Core Nanofiber with Extremely Large Hole Region", CLEO 2011, JWA36, Baltimore, USA, May 2011.
7. W. Gao, M. Liao, X. Yan, C. Kito, T. Suzuki, M. El-Amraoui, J. Jules, G. Gadret, F. Désévéday, F. Smektala, and Y. Ohishi, "Visible Light Generation and Its Influence to Supercontinuum in As₂S₃ Microstructured Fiber", CLEO 2011, JWA66, Baltimore, USA, May 2011.
8. M. Liao, X. Yan, Z. Duan, T. Suzuki, and Y. Ohishi, "Tellurite Nanostructured Fiber", CLEO 2011, CME5, Baltimore, USA, May 2011.
9. (Invited) Y. Ohishi, "New Prospect of Tellurite Microstructured Fibers", OSA Specialty Optical Fibers Topical Meeting 2011, OSA Technical Digest, SOMD1, Toronto, Canada, June 2011.
10. Z. Duan, M. Liao, X. Yan, W. Gao, T. Suzuki, Y. Ohishi, "Novel Highly Nonlinear Composite Tellurite Microstructured Optical Fibers for SC Generation", OSA Specialty Optical Fibers Topical Meeting 2011, OSA Technical Digest, JTuB7, Toronto, Canada, June, 2011.
11. M. Liao, X. Yan, W. Gao, Z. Duan, T. Suzuki, and Y. Ohishi, "Five-order SRSs and supercontinuum generation by a tapered tellurite microstructured fiber", OSA Nonlinear Optics 2011, NWE9, Hawaii, USA, June 2011.
12. (Invited) F. Smektala, M. El-Amraoui, J. Fatome, B. Kibler, J. C. Jules, G. Gadret, F. Desevedavy, G. Renversez, J. Troles, L. Brilland, Y. Messaddeq, M. Duhant, G. Canat, and Y. Ohishi, "Recent developments in chalcogenide photonic crystal fibres", Photonics Society Summer Topical Meeting Series, 2011 IEEE, TuB2.3, Montreal, Canada, July 2011.
13. (Invited) Y. Ohishi, "Tellurite Microstructured Fibers for Broadband Supercontinuum Generation", IEEE Photonics Society Summer Topical Meeting Series 2011, TuB1.2, Montreal, Canada, July 2011.
14. (Invited) T. Kohoutek, T. Suzuki, and Y. Ohishi, "Third harmonic generation measurement of non-linear optical susceptibility $\chi^{(3)}$ of GeGaSbS chalcogenide glasses for highly non-linear micro-structured optical fibers", The 9th International Meeting of Pacific Rim Ceramic Societies, Cairns, Australia, July 2011.
15. T. Suzuki, H. Nasu, S. Mizuno, H. Ito, K. Hasegawa, and Y. Ohishi, "Quantum efficiency of Nd-doped tellurite and fluoride glasses under sunlight excitation and the numerical

simulation of the solar pumped fiber lasers”, The 9th International Meeting of Pacific Rim Ceramic Societies, Cairns, Australia, July 2011.

16. (Invited) Y. Ohishi, “New Prospect of Highly Nonlinear Glass Microstructured Optical Fibers”, The 9th International Meeting of Pacific Rim Ceramic Societies, S5.1, Cairns, Australia, July 2011.
17. X. Yan, G. Qin, M. Liao, T. Suzuki, and Y. Ohishi, “Enhanced Soliton Self-Frequency Shift in Tellurite Microstructured Fiber”, The 16th Opto-Electronics and Communications Conference, OECC2011, 5C3_3, pp. 49-50, Kaohsiung, Taiwan, July 2011.
18. (Invited) Y. Ohishi, M. Liao, X. Yan, Z. Duan, and T. Suzuki, “Tellurite Microstructured Fibers and Their Applications”, The 16th Opto-Electronics and Communications Conference, OECC2011, 5C4_1, pp. 51-52, Kaohsiung, Taiwan, July 2011.
19. X. Yan, T. Kohoutek, M. Liao, T. Suzuki, and Y. Ohishi, “Ultrawide Supercontinuum Generation in Ge-Ga-Sb-S Chalcogenide Microstructured Fiber”, The 16th Opto-Electronics and Communications Conference, OECC2011, 7P3_050, pp. 630-631, Kaohsiung, Taiwan, July 2011.
20. M. Liao, X. Yan, Z. Duan, W. Gao, T. Suzuki, and Y. Ohishi, “Soft Glass Microstructured Fiber”, The 16th Opto-Electronics and Communications Conference, OECC2011, 7P3_043, pp. 603-604, Kaohsiung, Taiwan, July 2011.
21. (Invited) M. Liao, W. Gao, X. Yan, Z. Duan, T. Suzuki, and Y. Ohishi, “Recent Progress on Tellurite Suspended nanowires”, 1st International Applied Photonics Technology Conference (IAPTC) 2011, Session A, pp. 31-34, Miaoli, Taiwan, July 2011.
22. K. N. Pham, H. T. Tong, Y. Ohishi, and B. T. Phan, “Influence of P₂O₅ concentration on thermal and optical properties of tellurite glasses”, 7th National Conference of Solid-State Physics and Materials Science (SPAMS-2011), Ho Chi Minh City, Vietnam, Nov. 2011.
23. K. N. Pham, H. T. Tong, Y. Ohishi, and B. T. Phan, “Thermal and Optical Properties of Phospho-Tellurite Glasses and Characterization of Fibers Fabricated by Rotational Casting”, 3rd International Workshop on Nanotechnology and Application (IWNA) 2011, Ho Chi Minh City, Vietnam, Nov. 2011.
24. X. Yan, M. Liao, T. H. Tuan, T. Suzuki, and Y. Ohishi, “Defected core tellurite/phosphate composite microstructured optical fiber with four zero dispersion wavelengths”, Frontiers in Optics 2011, JWA20, San Jose, USA, Oct. 2011.
25. (Invited) Y. Ohishi, “Tellurite Microstructured Fibers and Their Applications”, Frontiers in Optics 2011, FTuI4, San Jose, USA, Oct. 2011.
26. T. Suzuki, H. Kawai, H. Nasu, S. Mizuno, H. Ito, K. Hasegawa, and Y. Ohishi, “Spectroscopic properties of Nd³⁺-doped ZBLAN Glass for Solar Pumped Lasers”, Optics

for Solar Energy, JWE24, Austin, USA, Nov. 2011.

27. X. Yan, M. Liao, T. Suzuki, and Y. Ohishi, "Quantum-correlated photon pair generation in tellurite microstructured optical fibers", Photonics West 2012, Proc. of SPIE, Vol. 8257, 82570U-1-7, San Francisco, USA, Jan. 2012.
28. W. Gao, M. Liao, X. Yan, T. Suzuki, and Y. Ohishi, "Passively mode-locked and Q-switched operation in a fiber laser cavity with normal dispersion", Photonics West 2012, Proc. of SPIE, Vol. 8257, 82570W-1-11, San Francisco, USA, Jan. 2012.
29. J. I. Mackenzie, G. S. Murugan, T. Suzuki, Y. Ohishi, A. W. Yu, and J.B. Abshire, "Er-doped Tellurite glasses for planar waveguide power amplifier with extended gain bandwidth", Photonics West 2012, Proc. of SPIE, Vol. 8235, 823514-1-9, San Francisco, USA, Jan. 2012.
30. T. Kohoutek, Z. Duan, X. Yan, T. Suzuki, M. Matsumoto, T. Misumi, and Y. Ohishi, "Chalcogenide-tellurite composite microstructured optical fibre", Photonics West 2012, Proc. of SPIE, Vol. 8257, 82570D-1-6, San Francisco, USA, Jan. 2012.
31. T. Suzuki, H. Nasu, S. Mizuno, H. Ito, K. Hasegawa, and Y. Ohishi, "Numerical simulation of Nd-fluoride and tellurite solar-pumped fiber lasers", Photonics West 2012, Proc. of SPIE, Vol. 8257, 825710-1-7, San Francisco, USA, Jan. 2012.
32. M. Liao, Z. Duan, W. Gao, X. Yan, T. Suzuki, and Y. Ohishi, "A dispersion flattened tellurite composite holey fiber", Photonics West 2012, Proc. of SPIE, Vol. 8257, 82570Y1-6, San Francisco, USA, Jan. 2012.
33. T. H. Tong, X. Yan, T. Suzuki, and Y. Ohishi, "Novel tellurite-phosphate composite microstructured optical fibers for nonlinear applications", Photonics West 2012, Proc. of SPIE, Vol. 8257, 825711-1-9, San Francisco, USA, Jan. 2012.
34. X. Xue, T. Suzuki, and Y. Ohishi, "Tb³⁺/Yb³⁺ Co-doped KY₃F₁₀ Monodispersed Nanocrystals: Hydrothermal Synthesis and Upconversion Luminescence", 4th International Workshop on Photoluminescence in Rare Earths: Photonic Materials and Devices 2012, O-24, pp. 78, Kyoto, Japan, March 2012.
35. X. Xue, T. Morikawa, T. Suzuki, and Y. Ohishi, "Synthesis and Luminescent Properties of Self-Assembly LiCaAlF₆: Cr³⁺ Microcrystals via Polyol-Mediated Solvothermal Method", 4th International Workshop on Photoluminescence in Rare Earths: Photonic Materials and Devices 2012, P-40, pp. 148, Kyoto, Japan, March 2012.
36. K. Nogata, T. Suzuki, and Y. Ohishi, "Quantum efficiency of Nd-doped phosphate glass under simulated sunlight", 4th International Workshop on Photoluminescence in Rare Earths: Photonic Materials and Devices 2012, P-42, pp. 152, Kyoto, Japan, March 2012.

1. 森川貴司, Xuaojie Xue, 鈴木健伸, 大石泰丈, ”ナノ LiCaAlF₆ 結晶の光学特性”, 平成 23 年度日本セラミックス協会東海支部学術研究発表会, B-13, 名古屋工業大学, 12 月 3 日, 2011.
2. 上地慎也, Xuaojie Xue, 鈴木健伸, 大石泰丈, “希土類含有 LiYF₄ ナノ結晶の光学特性”, 平成 23 年度日本セラミックス協会東海支部学術研究発表会, B-14, 名古屋工業大学, 12 月 3 日, 2011.
3. 野形康平, 鈴木健伸, 大石泰丈, “リン酸塩ガラスを用いた太陽光励起ファイバレーザ媒体の研究”, 平成 23 年度日本セラミックス協会東海支部学術研究発表会, B-15, 名古屋工業大学, 12 月 3 日, 2011.
4. 三好祥平, 塩坂 W 輝生, 鬼頭千尋, Xin Yan, 鈴木健伸, 大石泰丈, “テルライト光ファイバのラマンソリトン効果”, 平成 23 年度日本セラミックス協会東海支部学術研究発表会, B-16, 名古屋工業大学, 12 月 3 日, 2011.

<Invited Lectures>

大石 泰丈, “高非線形微細構造光ファイバとその応用”, 電子情報通信学会 2012 年総合大会, BI-4-3, 岡山大学, 3 月 21 日, 2012.