

国際会議発表：

1. L. Zhang, T. H. Tuan, H. Kawamura, K. Nagasaka, T. Suzuki, and Y. Ohishi, "Broadband Fiber Optical Parametric Amplifier Formed by Two Pairs of Four-Wave Mixing in a Tellurite Microstructured Optical Fiber", Optical Fiber Communication Conference 2016, Anaheim, USA, March, 2016.
2. T. H. Tong, K. Nagasaka, L. Zhang, T. Cheng, T. Suzuki, and Y. Ohishi, "Highly nonlinear chalcogenide optical fibers with flattened chromatic dispersion invariant to the core fluctuation and their performances of parametric amplification", 2016 Photonics West, San Francisco, USA, February, 2016.
3. X. Xue, T. Cheng, T. Suzuki, and Y. Ohishi, " $\text{KY}_3\text{F}_{10}:\text{Er}^{3+}/\text{Yb}^{3+}$ nanocrystals doped laser-induced self-written waveguide for optical amplification in the C band", 2016 Photonics West, San Francisco, USA, February, 2016.
4. L. Liu, T. Cheng, K. Nagasaka, H. T. Tong, T. Suzuki, and Y. Ohishi, "Coherent mid-infrared supercontinuum generation in all-solid chalcogenide microstructured fibers with all-normal dispersion", 2016 Photonics West, San Francisco, USA, February, 2016.
5. L. Zhang, H. T. Tong, H. Kawamura, T. Suzuki, and Y. Ohishi, "Supercontinuum generation in a suspended core birefringent tellurite microstructured optical fiber pumped in telecommunication band by a picosecond laser", 2016 Photonics West, San Francisco, USA, February, 2016.
6. T. Cheng, X. Xue, L. Liu, W. Gao, T. Suzuki, and Y. Ohishi, "Evolution of the mid-infrared higher-order soliton fission in a tapered tellurite microstructured optical fiber", 2016 Photonics West, San Francisco, USA, February, 2016.
7. J. J. M. Vequizo and A. Yamakata, "Dynamics of photocarriers in SrTiO_3 studied by transient absorption spectroscopy: Elucidation of the effects of defects", Pacificchem 2015, Hawaii, USA, December, 2015.
8. A. Yamakata, M. Kawaguchi, J. Kubota, and K. Domen, "Time-resolved visible to mid-IR absorption study on the behavior of photogenerated electrons and holes in LaTiO_2N visible light responsive water splitting photocatalysts", Pacificchem 2015, Hawaii, USA, December 2015.

9. H. Ishihara, K. Masuno, M. Ishii, S. Kumagai, and M. Sasaki, "Membrane-Type Microheater for Wavelength Selective Infrared Emitter and CO₂ gas Sensing", 22nd International Display Workshops (IDW'15), Otsu, Japan, December, 2015.
10. (Invited) Y. Ohishi, L. Zhang, T. Cheng, T. H. Tuan, L. Liu, T. Suzuki, and Y. Ohishi, "Soft Glass Highly Nonlinear Optical Fibers and Their Applications", 4th Workshop on Specialty Optical Fibers (WSOF2015), Hong Kong, China, November, 2015.
11. (Invited) A. Yamakata, "Behaviors of Photogenerated Charge Carriers in Single-Crystalline and Polycrystalline Powder SrTiO₃", 2015 EMN Meeting on Photocatalysis (Energy Materials Nanotechnology), Las Vegas, USA, November 2015.
12. E.H. Sekiya and K. Saito, "Investigation of NIR emission in Bi, Sb, Pb and Sn doped silica glasses aiming optical fiber amplifier and laser", ACO2015, Hong Kong, November 2015.
13. (Invited) M. Sasaki and S. Kumagai, "WAVELENGTH SELECTIVE IR EMITTER USING MEMS MICROHEATER FOR CO₂ MONITORING", IWNA 2015, Vung Tau, Vietnam, November, 2015.
14. T. Cheng, T. H. Tuan, X. Xue, D. Deng, T. Suzuki, and Y. Ohishi, "Experimental Observation of Multiple Dispersive Waves and Mid-infrared Solitons in a Birefringence Tellurite Microstructured Optical Fiber", Frontiers in Optics: The 99th OSA Annual Meeting and Exhibit/Laser Science XXXI 2015, San Jose, USA, October, 2015.
15. X. Xue, T. Cheng, D. Deng, T. Suzuki, and Y. Ohishi, "Ultraviolet Emissions of Tb³⁺ by Three-photon Upconversion Process", Frontiers in Optics: The 99th OSA Annual Meeting and Exhibit/Laser Science XXXI 2015, San Jose, USA, October, 2015.
16. T. Cheng, X. Xue, D. Deng, T. Suzuki, and Y. Ohishi, "Highly Efficient Dispersive Wave Emission in a Tellurite Microstructured Optical Fiber", Frontiers in Optics: The 99th OSA Annual Meeting and Exhibit/Laser Science XXXI 2015, San Jose, USA, October, 2015.
17. T. H. Tuan, K. Takenaka, H. Kawamura, T. Suzuki, and Y. Ohishi, "Invariant chromatic dispersion properties of tellurite hybrid microstructured optical fibers with buffer layer", Frontiers in Optics: The 99th OSA Annual Meeting and Exhibit/Laser Science XXXI 2015,

San Jose, USA, October, 2015.

18. L. Liu, K. Nagasaka, T. Suzuki, and Y. Ohishi, "Supercontinuum Generation in Fluoride Fibers Pumped By a 2 μm Q-switched Laser", *Frontiers in Optics: The 99th OSA Annual Meeting and Exhibit/Laser Science XXXI 2015*, San Jose, USA, October, 2015.
19. L. Zhang, T. H. Tuan, W. Gao, H. Kawamura, T. Suzuki, and Y. Ohishi, "Tellurite Microstructured Optical Fiber Based Raman Soliton and Dispersive Wave Generation", *Frontiers in Optics: The 99th OSA Annual Meeting and Exhibit/Laser Science XXXI 2015*, San Jose, USA, October, 2015.
20. T. Cheng, M. Liao, X. Xue, J. Li, D. Deng, X. Li, D. Chen, S. Zheng, T. Suzuki, and Y. Ohishi, "Fabrication of an Optical Fiber Doped with Amorphous Yttrium Aluminosilicate Nanoparticles in the Core for Supercontinuum Generation", *2015 Advanced Solid State Lasers Conference and Exhibition (ASSL)*, Berlin, Germany, October, 2015.
21. D. Deng, L. Liu, T. H. Tuan, Y. Kanou, M. Matsumoto, H. Tezuka, T. Suzuki, and Y. Ohishi, "Mid-infrared Supercontinuum Covering 3-10 μm Using a As_2Se_3 Core and As_2S_5 Cladding Step-index Chalcogenide Fiber", *2015 Advanced Solid State Lasers Conference and Exhibition (ASSL)*, Berlin, Germany, October, 2015.
22. L. Liu, Y. Ohishi, T. Suzuki, and K. Nagasaka, "Numerical Investigation of Coherent Mid-infrared Supercontinuum Generation in Tapered Chalcogenide Fibers", *2015 Advanced Solid State Lasers Conference and Exhibition (ASSL)*, Berlin, Germany, October, 2015.
23. L. Zhang, H. T. Tong, H. Kawamura, T. Suzuki, and Y. Ohishi, "Optical Parametric Oscillator Based on Degenerate Four Wave Mixing in Tellurite Microstructured Optical Fiber", *2015 Advanced Solid State Lasers Conference and Exhibition (ASSL)*, Berlin, Germany, October, 2015.
24. J. J. M. Vequizo, H. Matsunaga, and A. Yamakata, "Distinctive photocatalytic activities of polycrystalline anatase and rutile TiO_2 studied by transient absorption spectroscopy", *2015 International Conference on Applied Materials and Optical Systems (ICAMOS)*, Cavite, Philippines, October, 2015.
25. L. Zhang, T. H. Tuan, D. Deng, H. Kawamura, T. Suzuki, and Y. Ohishi, "Tellurite

- Microstructured Fiber Based Optical Parametric Amplifier”, 41st European Conference on Optical Communication (ECOC2015), Valencia Spain, September, 2015.
26. T. Cheng, T. H. Tuan, X. Xue, D. Deng, T. Suzuki, and Y. Ohishi, “Multi-peak-spectra Generation with Multiple Dispersive Waves and Solitons in a Birefringence Tellurite Microstructured Optical Fiber”, 41st European Conference on Optical Communication (ECOC2015), Valencia Spain, September, 2015.
 27. K. Tsukasaki, S. Kumagai, and M. Sasaki, “Effect of external floating electrode for enhancing efficiency of generating an atmospheric pressure inductively coupled microplasma”, 9th International Conference on Reactive Plasmas / 68th Gaseous Electronics Conference / 33rd Symposium on Plasma Processing, Honolulu, USA, October, 2015.
 28. E. H. Sekiya, and K. Saito, “Investigation of Optical Properties in Sn, Sb, Pb and Bi Doped Silica Glasses Aiming Visible Fiber Laser”, International Congress on Glass Annual Meeting Bangkok 2015, Thailand, September 2015.
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 32. L. Zhang, T. H. Tuan, D. Sega, H. Kawamura, D. Deng, T. Suzuki, and Y. Ohishi, “Flexible Four-Wave Mixing Based Wavelength Conversion in a Tellurite Microstructured Fiber”, OSA Topical Meeting Nonlinear Optics (NLO) 2015, Hawaii, USA, July, 2015.
 33. D. Deng, K. Nagasaka, T. Cheng, X. Xue, T. Suzuki, and Y. Ohishi, “Optical Pulse Shaping by Doublet Brillouin Gain Lines in a Single-mode Tellurite Fiber”, the 20th OptoElectronics and

Communications Conference (OECC2015), Shanghai, China, June, 2015.

34. (Invited), Y. Ohishi, “New Prospect of Soft Glass Microstructured Optical Fibers”, 8th International Conference on Materials for Advanced Technologies of the Materials Research Society of Singapore & IUMRS-International Conference in Asia, Suntec, Singapore, June, 2015.
35. Y. Matsuura, S. Kumagai, D. Deng, Y. Ohishi, and M. Sasaki, “Collecting biological samples for accurate optical absorption spectroscopy”, 8th International Conference on Molecular Electronics and Bioelectronics (M&BE8), Tokyo, Japan, June, 2015.
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39. J. Picot-Clemente, C. Strutyński, F. Amrani, B. Kibler, F. Desevedavy, J-C Jules, G. Gadret, D. Deng, T. Cheng, Y. Ohishi, and F. Smektala, “400 THz bandwidth supercontinuum generation in tapered tellurite suspended core fiber”, CLEO/Europe-EQEC 2015, Munich, Germany, June, 2015.
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41. H. Ishihara, K. Masuno, M. Ishii, S. Kumagai, and M. Sasaki, “POWER EFFICIENT MICROHEATER FOR WAVELENGTH SELECTIVE INFRARED EMITTER AND CO₂ GAS SENSING”, The 18th International Conference on Solid-State Sensors, Actuators and

Microsystems, Alaska, USA, June, 2015.

42. Y. Nakayama, R. Shimane, S. Kumagai, H. Hashizume, T. Ohta, M. Ito, M. Hori, and M. Sasaki, “IRRADIATING LOW-TEMPERATURE ATMOSPHERIC PRESSURE PLASMA TO CELLS USING MEMS NOZZLE”, The 18th International Conference on Solid-State Sensors, Actuators and Microsystems, Alaska, USA, June 2015.
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47. A. Yamakata, “Control of behavior and energy state of photogenerated charge carriers on photocatalysts”, JST さきがけ「光エネルギーと物質変換」領域研究成果報告会, 日本大学理工学部船橋キャンパス, 千葉県, March, 2015.
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49. Tuan H. Tong, H. Kawashima, K. Asano, Z. Duan, T. Cheng, D. Deng, M. Matsumoto, T. Hiroshige, T. Suzuki, and Y. Ohishi, “Flattened supercontinuum generation in tellurite-phosphate and chalcogenide-tellurite hybrid microstructured optical fibers with tailored chromatic dispersion profiles”, 2015 Photonics West, San Francisco, USA, February 2015.

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52. M. Shibata, T. Yamaguchi, S. Kumagai, and M. Sasaki, "THERMOCOUPLES ON TRENCH SIDEWALL IN CHANNEL FRONTING ON FLOWING MATERIAL", Proceedings of the 28th International Conference on Micro Electro Mechanical Systems, Estoril, Portugal, January, 2015.
53. K. Hasegawa, H. Ito, S. Mizuno, T. Ichikawa, Y. Takeda, T. Motohiro, M. Yamaga, Y. Ohishi, and T. Suzuki, "Solar-pumped Laser and its Application to Energy Conversion", The OSA Light, Energy and the Environment Optics Congress, Canberra, Australia, December, 2014.
54. (Invited) M. Sasaki and S. Kumagai, "3D processing using resist spray coating or microplasma nozzle", The 8th International Nanotechnology/MEMS Seminar, Hamamatsu, Japan, December, 2014
55. (Invited) Y. Ohishi, "New Prospect of Soft Glass Optical Fibers", Asia Communications and Photonics Conference (ACP2014), Shanghai, China, November 2014.
56. S. Sriratanavaree, A. Rahman, D. Leung, and Y. Ohishi, "Finite Element Analysis of Tellurite Microstructured Fibre", Asia Communications and Photonics Conference (ACP2014), Shanghai, China, November, 2014.
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63. T. H. Tuan, Z. Duan, D. Deng, T. Cheng, T. Suzuki, and Y. Ohishi, "Flattened supercontinuum generation in a tellurite hybrid microstructured optical fiber", OSA Frontiers in Optics/Laser Science 2014, Tucson, USA, October 2014.
64. (Invited) A. Yamakata, "Charge Carrier Dynamics on Visible-Light Responsive Water-Splitting Photocatalysts", 16th Samahang Pisika ng Visayas at Mindanao (SPVM) National Physics Conference, 2014 International Conference on Applied Physics and Materials Science (ICAMS 2014), Cagayan de Oro City, Philippines, October, 2014.
65. J. J. M. Vequizo and A. Yamakata, "Carrier Dynamics in TiO_2 Photocatalyst Excited by UV Pulse", 2014 International Conference on Applied Physics and Materials Science (ICAMS 2014), Cagayan de Oro City, Philippines, October, 2014.
66. A. Yamakata, M. Kawaguchi, J. Kubota, and K. Domen, "Behaviors and Energy States of Photogenerated Charge Carriers on Pt or CoO_x Loaded $LaTiO_{2-n}$ Photocatalysts Studied By Time-Resolved Absorption Spectroscopy", 2014 ECS and SMEQ Joint International Meeting, Cancun, Mexico, October, 2014.

67. (Invited)Y. Ohishi, “Prospect of mid-infrared supercontinuum generation using soft glasses”, Advanced Architectures in Photonics 2014, Prague, Czech Republic, September, 2014.
68. S. Mizuno, H. Ito, K. Hasegawa, T. Suzuki, and Y. Ohishi, “Solar-pumped fiber lasers and application to photovoltaics”, Advanced Architectures in Photonics 2014, Prague, Czech Republic, September, 2014.
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72. (Invited)Y. Ohishi, “New Prospect of highly nonlinear soft glass microstructured optical fibers”, 6th International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA2014), Leeds, UK, August, 2014.
73. Y. Ohishi, X. Xue, and T. Suzuki, “Energy Transfer between Cr^{3+} and Nd^{3+} in $LiCaAlF_6$ for Solar-pumped Laser Media”, 6th International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA2014), Leeds, UK, August, 2014.
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- FLOATING ELECTRODE FOR POWER EFFICIENT MICRO-PLASMA VUV LIGHT SOURCE”, 2014 IEEE International Conference on Optical MEMS and Nanophotonics (OMN), Glasgow, UK, August, 2014.
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89. (Invited) Y. Ohishi, “Soft Glass Highly Nonlinear Microstructured Optical Fibers”, 1st Joint Meeting of DGG-ACerS GOMD, Aachen, Germany, May, 2014.
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 102. (Invited) M. Sasaki and S. Kumagai, “MEMS Infrared Approaches to Detector Based on Nonlinear Oscillation and Wavelength Selective Emitter Using Surface Plasmon Polariton”, 2014 Photonics West, San Francisco, USA, February, 2014.
 103. T. Sawada, T. Chikuba, S. Kumagai, K. Masuno, M. Ishii, S. Uematsu, M. Sasaki, “Surface Plasmon Polariton Based Wavelength Selective IR Emitter Combined with MEMS Heater with Reduced Thermal Loss”, 8th International Conference on Reactive Plasmas and 31st Symposium on Plasma Processing, Fukuoka, Japan, February, 2014.
 104. T. Sawada, K. Masuno, S. Kumagai, M. Ishii, S. Uematsu, and M. Sasaki, “ENHANCED WAVELENGTH SELECTIVE INFRARED EMISSION USING SURFACE PLASMON POLARITON AND THERMAL ENERGY CONFINED IN MICRO-HEATER”, 27th International Conference on Micro Electro Mechanical Systems, San Francisco, USA, January, 2014.
 105. (Invited) M. Sasaki and S. Kumagai, “Advanced Thermal MEMS for Resonant Infrared Detector Using Nonlinear Oscillation and Wavelength Selective Emitter Using Surface Plasmon Polariton”, The 7th International Nanotechnology/MEMS Seminar, Hamamatsu, Japan, December, 2013.
 106. M. Liao, W. Gao, T. Cheng, X. Xue, Z. Duan, D. Deng, H. Kawashima, T. Suzuki, and Y. Ohishi, “Ultra-Broadband Mid-Infrared Supercontinuum Generation in Fluoride Glass”, OSA Advanced Solid-State Lasers Congress, Paris, France, October 2013.
 107. (Invited) Y. Ohishi, “Supercontinuum Generation in Highly Nonlinear Fibers”, OSA Advanced Solid-State Lasers Congress, Paris, France, October 2013.
 108. X. Xue, T. Suzuki, R. N. Tiwari, M. Yoshimura, and Y. Ohishi, “Size-dependent Luminescence

- of Nd³⁺-doped LiYF₄ Nanocrystals”, OSA Frontiers in Optics 2013/Laser Science XXIX, Orlando, USA, October, 2013.
109. W. Gao, K. Ogawa, X. Xue, M. Liao, D. Deng, T. Cheng, T. Suzuki, and Y. Ohishi, “Linearly Polarized Third-Harmonic Generation in an Elliptical-Core Fluoride Fiber”, OSA Frontiers in Optics 2013/Laser Science XXIX, Orlando, USA, October, 2013.
110. W. Gao, M. Liao, T. Cheng, T. Suzuki, and Y. Ohishi, “Tunable Brillouin Comb Lasing Based on a Single-Mode Tellurite Fiber in a Composite Cavity”, OSA Frontiers in Optics 2013/Laser Science XXIX, Orlando, USA, October, 2013.
111. W. Gao, K. Ogawa, X. Xue, M. Liao, D. Deng, T. Cheng, T. Suzuki, and Y. Ohishi, “Experimental Observation of Third-Harmonic Generation in a ZBLAN Fluoride Fiber with Elliptical Core”, 39th European Conference on Optical Communication (ECOC 2013), London, UK, September, 2013.
112. T. Yamaguchi, S. Kumagai, and M. Sasaki, “A Thermocouple Device Fabricated on Trench Sidewall for Measuring Accurate Temperature of Microfluid”, 2013 International Conference on Solid State Devices and Materials, Fukuoka, Japan, September, 2013.
113. H. Iimura, D. Deng, S. Kumagai, Y. Ohishi, and M. Sasaki, “Microfluidic Device with Accurately Aligned Optical Fibers for Measuring Transmission Spectrum Using Supercontinuum Light”, 2013 International Conference on Solid State Devices and Materials, Fukuoka, Japan, September, 2013.
114. T. Yamaguchi, S. Kumagai, and M. Sasaki, “A microfluidics device with thermocouples fabricated on sidewall for precise monitoring of biomolecule-dispersed solution”, 2013 JSAP-MRS Joint Symposia, Kyoto, Japan, September, 2013.
115. K. Masuno, T. Sawada, S. Kumagai, M. Ishii, M. Sasaki, and S. Uematsu, “Wavelength Selective Infrared Emission via Surface Plasmon Polariton from MEMS Heater for CO₂ Gas Sensing”, 2013 JSAP-MRS Joint Symposia, Kyoto, Japan, September, 2013.
116. X. Xue, T. Suzuki, and Y. Ohishi, “LOCAL FIELD EFFECT ON Nd³⁺-DOPED α -NaYF₄ NANOCRYSTALS IN LIQUIDS”, Optical MEMS and Nanophotonics 2013, Kanazawa, Japan, August, 2013.

117. H. Iimura, D. Deng, S. Kumagai, Y. Ohishi, and M. Sasaki, "Micro-Channel Device for Spectrum Measurement Using Optical Fiber Aligned with Bias Spring with Reversely tapered profile", 2013 IEEE International Conference on Optical MEMS and Nanophotonics, Kanazawa, Japan, August, 2013.
118. T. Sawada, K. Masuno, S. Kumagai, M. Ishii, S. Uematsu, and M. Sasaki, "SURFACE PLASMON POLARITON BASED WAVELENGTH SELECTIVE IR EMITTER COMBINED WITH MICROHEATER", 2013 IEEE International Conference on Optical MEMS and Nanophotonics, Kanazawa, Japan, August, 2013.
119. (Invited) A. Yamakata, "Real-time observation of destruction of hydration shells around several cations at electrochemical interface", Seventh International Conference on Advanced Vibrational Spectroscopy (ICAVS-7), Kobe, Japan, August, 2013.
120. (Invited) A. Yamakata, "Real-time observation of destruction processes of hydrophobic hydration shells at the electrified hydrophobic interface", 15th Asian Chemical Congress (15ACC), Sentosa, Singapore, August, 2013.
121. (Invited) Y. Ohishi, "New Prospect of Soft Glass Highly Nonlinear Microstructured Optical Fibers", 2013 Conference on Lasers and Electro-Optics Pacific Rim (CLEO-PR), Kyoto, Japan, July, 2013.
122. X. Xue, S. Uechi, R. N. Tiwari, Z. Duan, M. Liao, M. Yoshimura, T. Suzuki, and Y. Ohishi, "Size-dependent Upconversion Luminescence in $\text{Er}^{3+}/\text{Yb}^{3+}$ Codoped LiYF_4 Nano/Microcrystals", 2013 Conference on Lasers and Electro-Optics Pacific Rim (CLEO-PR), Kyoto, Japan, July, 2013.
123. T. Cheng, Z. Duan, M. Liao, W. Gao, D. Deng, T. Suzuki, and Y. Ohishi, "A Simple Tellurite Photonic Bandgap Fiber Based on One Array of Rings", 2013 Conference on Lasers and Electro-Optics Pacific Rim (CLEO-PR), Kyoto, Japan, July, 2013.
124. Y. Sakai, T. Cheng, H. Kawashima, T. Suzuki, and Y. Ohishi, "Dynamic Lightwave Propagation Control in Tellurite All Solid Photonic Bandgap Fibers", 2013 Conference on Lasers and Electro-Optics Pacific Rim (CLEO-PR), Kyoto, Japan, July, 2013.

125. M. Liao, Y. Ohishi, T. Cheng, W. Gao, X. Xue, Z. Duan, D. Deng, H. Kawashima, and T. Suzuki, "Supercontinuum Generation Approaching the Whole Transparent Range of Glass", 6th IEEE / International Conference on Advanced Infocomm Technology, Hsinchu, Taiwan, July, 2013.
126. T. Cheng, Y. Sakai, H. Kawashima, T. Suzuki and Y. Ohishi, "Dynamic control in all-solid soft-glass photonic bandgap fibers", 6th IEEE / International Conference on Advanced Infocomm Technology, Hsinchu, Taiwan, July, 2013.
127. T. Cheng, Y. Sakai, H. Kawashima, T. Suzuki, and Y. Ohishi, "Dynamic Bandgap Control in All-solid Tellurite Photonic Bandgap Fibers", OSA Nonlinear Optics (NLO) 2013, Hawaii, USA, July, 2013.
128. I. Savelii, O. Mouawad, J. Fatome, B. Kibler, F. Desevedavy, G. Gadret, J-C Jules, P-Y Bony, H. Kawashima, W. Gao, T. Kohoutek, T. Suzuki, Y. Ohishi, and F. Smektala, "Mid-infrared supercontinuum generation in suspended-core Chalcogenide and Tellurite optical fibers", OSA Nonlinear Optics (NLO) 2013, Hawaii, USA, July, 2013.
129. E. Samuel, T. H. Tuan, K. Asano, T. Suzuki, and Y. Ohishi, "Optical Parametric Gain of Tellurite/Phosphate Highly Nonlinear Optical Fiber", 4th International Conference on Optical Communication Systems, Reykjavik, Iceland, July, 2013.
130. H. Iimura, D. Deng, Y. Ohishi, S. Kumagai, and M. Sasaki, "Etching profile control of alignment spring for combining MEMS micro-channel device and optical fibers", 12th Asia Pacific Physics Conference, Makuhari, Japan, July, 2013.
131. A. Yamakata, M. Ohkawa, and I. Kamiya, "Photodynamics on transition metal doped visible-light responsive SrTiO₃ photocatalysts", The 14th Japan-Korea Symposium on Catalysis, Nagoya, Japan, July, 2013.
132. D. Minami, E. H. Sekiya, and K. Saito, "Photobleaching in Yb-doped silica glass", 23rd International Congress on Glass, Prague, Czech Republic, July, 2013.
133. H. Yamazaki, E. H. Sekiya, and K. Saito, "Al-codoping effects on optical properties of Pr-doped silica glass", 23rd International Congress on Glass, Prague, Czech Republic, July, 2013.

134. E. H. Sikiya and K. Saito, "Crosstalk and Fiber Fuse on Hole Walling Multi Core Fiber", 23rd International Congress on Glass, Prague, Czech Republic, July, 2013.
135. W. Gao, M. Liao, D. Deng, T. Cheng, T. Suzuki, and Y. Ohishi, "400-Wavelength Raman Comb Lasing in a Ring Cavity Based on Nonlinear Polarization Rotation", Conference on Lasers and Electro-Optics (CLEO) 2013, San Jose, USA, June, 2013.
136. T. Cheng, Z. Duan, W. Gao, M. Liao, D. Deng, T. Suzuki, and Y. Ohishi, "All-solid tellurite microstructured optical fiber with one layer of high-index rods", Conference on Lasers and Electro-Optics (CLEO) 2013, San Jose, USA, June, 2013.
137. T. Sawada, S. Kumagai, K. Masuno, M. Ishii, S. Uematsu, and M. Sasaki, "INDIRECT WAVELENGTH SELECTIVE INFRARED MICRO-EMITTER USING SURFACE PLASMON POLARITON FOR GAS SENSING", 17th International Conference on Solid-State Sensors, Actuators and Microsystems, Barcelona, Spain, June, 2013.
138. I. Savelli, O. Mouawad, J. Fatome, B. Kibler, C. Finot, F. Desevedavy, G. Gadret, J-C Jules, P-Y Bony, H, Kawashima, W. Gao, T. Kohoutek, T. Suzuki, Y. Ohishi, and F. Smektala, "Mid-infrared supercontinuum generation in suspended-core Chalcogenide and Tellurite optical fibers", 2013 Conference on Lasers and Electro-Optics Europe and International Quantum Electronics Conference, Munich, Germany, May, 2013.
139. T. Cheng, M. Liao, W. Gao, Z. Duan, D. Deng, T. Suzuki, and Y. Ohishi, "Brillouin gain spectra in all-solid chalcogenide-tellurite photonic bandgap fiber", 2013 Conference on Lasers and Electro-Optics Europe and International Quantum Electronics Conference, Munich, Germany, May, 2013.
140. W. Gao, M. El Amraoui, M. Liao, H. Kawashima, Z. Duan, D. Deng, T. Cheng, T. Suzuki, Y. Messaddeq, and Y. Ohishi, "Mid-Infrared Supercontinuum Generation in a 1.3 cm As₂S₃ Fiber with Suspended-Core Structure", 2013 Conference on Lasers and Electro-Optics Europe and International Quantum Electronics Conference, Munich, Germany, May, 2013.
141. X. Xue, S. Uechi, W. Gao, T. Suzuki, and Y. Ohishi, "Er³⁺-doped LiYF₄-Polymer Nanocomposites for S+C+L Band Amplification", 2013 Conference on Lasers and Electro-Optics Europe and International Quantum Electronics Conference, X. Xue, Munich, Germany, May, 2013.

142. T. Cheng, Z. Duan, M. Liao, W. Gao, D. Deng, T. Suzuki, and Y. Ohishi, "A novel seven-core multicore tellurite fiber", 2013 Conference on Lasers and Electro-Optics Europe and International Quantum Electronics Conference, Munich, Germany, May, 2013.
143. A. Yamakata and M. Osawa, "Real-time observation of destruction of hydration shells", The XVIth International Conference on Time-Resolved Vibrational Spectroscopy (TRVS 2013), Beppu, Japan, May, 2013.
144. E. P. Samuel, T. H. Tuan, K. Asano, T. Suzuki, and Y. Ohishi, "Highly Nonlinear Tellurite Fiber with Engineered Chromatic Dispersion for Broadband Optical Parametric Amplification", SPIE Optics and Optoelectronics 2013, Prague, Czech Republic, April, 2013.
145. Z. Duan, H. Tong, M. Liao, D. Deng, T. Suzuki, and Y. Ohishi, "Compositional and structural dependence of chromatic dispersion in tellurite hybrid microstructured optical fibers", SPIE Optics and Optoelectronics 2013, Prague, Czech Republic, April, 2013.
146. K. Ikeda, M. Inagaki, N. Kojima, Y. Ohshita, M. Yamaguchi, and A. Yamakata, "N-H Peak Shift in GaAsN by Band Gap Excitation", 9th International Conference on Concentrator Photovoltaic Systems (CPV-9), Miyazaki, Japan, April, 2013.
147. A. Yamakata, N. Nishimura, K. Minegishi, J. Kubota, K. Domen, "Time-resolved IR Study on Electron and Hole Transfer from Photocatalyst to Cocatalysts", JST さきがけ 「光エネルギーと物質変換」 研究領域研究成果報告会, Shiga, Japan, March, 2013.
148. E. P. Samuel, T. H. Tuan, M. Liao, Z. Duan, T. Suzuki, and Y. Ohishi, "Parametric gain analysis in tellurite/phospho-tellurite hybrid microstructured optical fibers with an engineered chromatic dispersion", 2013 Photonics West, San Francisco, USA, February, 2013.
149. D. Deng, W. Gao, M. Liao, T. Suzuki, and Y. Ohishi, "Supercontinuum generation from a multi-ring holes tellurite microstructure fiber pumped with a 2-micron high-power mode-locked fiber laser", 2013 Photonics West, San Francisco, USA, February, 2013.
150. X. Yan, M. Liao, T. Suzuki, and Y. Ohishi, "Analysis of soliton self-frequency shift in ZBLAN fiber as a broadband supercontinuum medium", 2013 Photonics West, San Francisco, USA, February, 2013.

151. W. Gao, M. Liao, H. Kawashima, T. Suzuki, and Y. Ohishi, "Square-pulse operation in a ring cavity with a single-mode tellurite fiber", 2013 Photonics West, San Francisco, USA, February, 2013.
152. T. Cheng, M. Liao, H. T. Tong, W. Gao, Z. Duan, T. Suzuki, and Y. Ohishi, "All-solid tellurite-phosphate photonic bandgap fiber", 2013 Photonics West, San Francisco, USA, February, 2013.
153. Z. Duan, H. Tong, M. Liao, M. Erwan, K. Asano, T. Suzuki, and Y. Ohishi, "A novel tellurite-phosphate glass for hybrid microstructured optical fibers", 2013 Photonics West, San Francisco, USA, February, 2013.
154. T. Suzuki, Y. Iwata, K. Nogata, S. Mizuno, H. Ito, K. Hasegawa, and Y. Ohishi, "Optical characterization of Er-doped glasses for solar-pumped laser applications", 2013 Photonics West, San Francisco, USA, February, 2013.
155. M. Liao, W. Gao, T. Cheng, Z. Duan, X. Xue, H. Kawashima, T. Suzuki, and Y. Ohishi, "Filamentation and supercontinuum generation in tellurite glass", 2013 Photonics West, San Francisco, USA, February, 2013.
156. (Invited) M. Sasaki, and S. Kumagai, "Indirect Plasmonic Thermal MEMS Emitter for Gas Sensing", The 6th International Nanotechnology/MEMS Seminar, Hamamatsu, Japan, December, 2012.
157. B. Yao, K. Ohsono, A. Ogura, E. H. Sekiya, and K. Saito, "Large Effective Area Hole-Walled Multi-Core Fibers", The 61st International Cable Connectivity Symposium, Rhode Island, USA, November, 2012.
158. W. Gao, M. Liao, T. Cheng, T. Suzuki, and Y. Ohishi, "Tunable Brillouin-Erbium Fiber Laser using a Single-Mode Tellurite Fiber", 96th OSA Annual Meeting Frontiers in Optics 2012/APS/DLS 28th Annual Meeting Laser Science XXVIII, Rochester, U.S.A, October, 2012.
159. M. Liao, W. Gao, T. Cheng, Z. Duan, H. Kawashima, T. Suzuki, and Y. Ohishi, "Broadband Supercontinuum Generation Through Filamentation in Tellurite Glass Pumped by Ultrashort

- Pulse”, 96th OSA Annual Meeting Frontiers in Optics 2012/APS/DLS 28th Annual Meeting Laser Science XXVIII, Rochester, U.S.A, October, 2012.
160. T. Cheng, R. Cherif, M. Liao, W. Gao, Z. Duan, M. Zghal, T. Suzuki, and Y. Ohishi, “Enhancing Stimulated Brillouin Scattering in a Three-core Tellurite Microstructured Optical Fiber”, 96th OSA Annual Meeting Frontiers in Optics 2012/APS/DLS 28th Annual Meeting Laser Science XXVIII, Rochester, U.S.A, October, 2012.
161. (Invited) A. Yamakata, M. Yoshida, J. Kubota, M. Osawa and K. Domen, “Dynamics of photogenerated electrons in GaN photoelectrochemical systems”, 17th Malaysian Chemical Congress, Kuala Lumpur, October, 2012.
162. (Invited) A. Yamakata, M. Yoshida, J. Kubota, M. Osawa and K. Domen, “Time-resolved IR absorption study on water-splitting photoelectrodes”, CAMBODIAN MALAYSIAN CHEMICAL CONFERENCE 2012, Siem Reap, Cambodia, October, 2012.
163. T. Sawada, S. Kumagai, K. Masuno, M. Ishii, S. Uematsu, and M. Sasaki, “MEMES INDIRECT WAVELENGTH SELECTIVE INFRARED EMITTER USING SURFACE PLASMON POLARITON”, 11th Asia Pacific Conference on Plasma Science and Technology, Kyoto, Japan, October, 2012.
164. M. Liao, W. Gao, T. Cheng, Z. Duan, T. Suzuki, and Y. Ohishi, “Supercontinuum Generation in Picosecond Regime in a Highly Nonlinear Tapered Tellurite Microstructured Optical Fiber”, 38th European Conference and Exhibition on Optical Communication, Amsterdam, the Netherlands, September, 2012.
165. S. Ohba, S. Kumagai, H. Kawashima, Y. Ohishi, and M. Sasaki, “Infra-Red Absorption Spectrum Measurement Combining Si Microfluidic Trench and Supercontinuum Light from Fiber”, 2012 International Conference on Solid State Devices and Materials, Kyoto, Japan, September, 2012.
166. S. Ohba, S. Kumagai, H. Kawashima, Y. Ohishi, and M. Sasaki, “Molecular Measurement Based on Infra-Red Absorption Spectrum Using Supercontinuum Light from Fiber”, IEEE Optical MEMS and Nanophotonic Conference 2012, Banff, Canada, August, 2012.
167. M. Liao, W. Gao, T. Cheng, Z. Duan, T. Suzuki, and Y. Ohishi, “Supercontinuum Generation

- in a Tapered Tellurite Air-clad Fiber”, 5th EPS-QEOD Europhoton Conference 2012, Stockholm, Sweden, August, 2012.
168. T. Cheng, M. Liao, W. Gao, Z. Duan, T. Suzuki, and Y. Ohishi, “Tellurite glass hollow-core photonic bandgap fiber”, 5th EPS-QEOD Europhoton Conference 2012, Stockholm, Sweden, August, 2012.
169. A. Yamakata, M. Yoshida, J. Kubota, M. Osawa, and K. Domen, “Potential-dependent Recombination Kinetics of Photogenerated Electrons in N- and P-type GaN Photoelectrodes”, The 63rd Annual Meeting of the International Society of Electrochemistry, Prague, Czech Republic, August, 2012.
170. W. Gao, M. Liao, X. Yan, T. Suzuki and Y. Ohishi, “Quasi-CW Supercontinuum Generation in a HNLF Pumped by Sub-Microsecond Pulse”, 17th Opto-Electronics and Communications Conference (OECC2012), Busan, Korea, July 2012.
171. T. Cheng, M. Liao, W. Gao, Z. Duan, T. Suzuki and Y. Ohishi, “A novel design of cluster-core highly non-linear tellurite microstructured optical fiber”, 17th Opto-Electronics and Communications Conference (OECC2012), Busan, Korea, July, 2012.
172. (Invited) Y. Ohishi, “Supercontinuum generation in non-silica highly nonlinear fibers”, International Symposium on Non Oxide Glasses and New Optical Glasses, Saint-Malo, France, July, 2012.
173. I. Savelii, J. C. Jules, G. Gadret, B. Kibler, F. Désévéday, T. Kohoutek, Y. Ohishi and F. Smektala, “Tellurite $\text{TeO}_2\text{-ZnO-Na}_2\text{O}$ microstructured fibers for IR laser sources development”, International Symposium on Non Oxide Glasses and New Optical Glasses, Saint-Malo, France, July, 2012.
174. T. Kohoutek, M. A. Hughes, H. Kawashima, T. Misumi, M. Matsumoto, T. Suzuki and Y. Ohishi, “Highly Efficient Diffraction Grating in Chalcogenide Ge-Ga-Sb-S Glass by Femtosecond Laser Writing”, International Symposium on Non Oxide Glasses and New Optical Glasses, Saint-Malo, France, July, 2012.
175. T. Kohoutek, T. Misumi, M. Matsumoto, T. Suzuki and Y. Ohishi, “Third Harmonic Generation Measurement of Nonlinear Optical Susceptibility of Chalcogenide Ge-Ga-Sb-S

- Glasses”, International Symposium on Non Oxide Glasses and New Optical Glasses, Saint-Malo, France, July, 2012.
176. T. Cheng, M. Liao, W. Gao, T. Suzuki, and Y. Ohishi, “Low confinement loss of the tellurite hybrid-guiding photonic bandgap fiber”, OSA Topical Meeting Specialty Optical Fiber and Applications 2012, Colorado Springs, USA, June, 2012.
 177. W. Gao, M. Liao, H. Kawashima, T. Suzuki, and Y. Ohishi, “Coherent Multiple Pulses Generation in a Passively Mode-locked Fiber Laser Cavity with Normal Dispersion”, OSA Topical Meeting Specialty Optical Fiber and Applications 2012, Colorado Springs, USA, June, 2012.
 178. S. Miyoshi, X. Yan, T. Suzuki, and Y. Ohishi, “Raman Response and SSFS in Phospho-Tellurite Fiber”, OSA Topical Meeting Specialty Optical Fiber and Applications 2012, Colorado Springs, USA, June, 2012.
 179. T. H. Tuan, K. Asano, Z. Duan, M. Liao, T. Suzuki, and Y. Ohishi, “Novel tellurite-phosphate composite microstructured optical fibers for highly nonlinear applications” , 5th International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA2012), Nara, Japan, June, 2012.
 180. K. Nogata, T. Suzuki, and Y. Ohishi, “Optical properties of Nd³⁺-doped phosphate glass for solar-pumped lasers”, 5th International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA2012), Nara, Japan, June, 2012.
 181. Y. Iwata, T. Suzuki, and Y. Ohishi, “Optical properties of Er³⁺-doped glasses for solar-pumped lasers”, 5th International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA2012), Nara, Japan, June, 2012.
 182. H. Kawashima, T. Kohoutek, X. Yan, T. Suzuki, and Y. Ohishi, “Chalcogenide/Tellurite Hybrid Microstructured Optical Fiber with High Nonlinearity and Flattened Dispersion”, 5th International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA2012), Nara, Japan, June, 2012.
 183. K. Asano, Z. Duan, T. H. Tuan, T. Suzuki, and Y. Ohishi, “Tellurite Hybrid Microstructured Optical Fibers with Flattened Dispersion at the Telecom Window”, 5th International

Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA2012), Nara, Japan, June, 2012.

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185. X. Xue, T. Suzuki, H. T. Tong, and Y. Ohishi, "Investigation of Local Field Effect of α - $NaYF_4$: Nd^{3+} Nanocrystals", 5th International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA2012), Nara, Japan, June, 2012.
186. (Invited) A. Yamakata, "Development and Mechanism of Water Splitting Photocatalysts", Seminar at Department of Electrical Engineering, National Chung Hsing University, National Chung Hsing University, Taichung, Taiwan, June, 2012
187. (Invited) A. Yamakata, "Real-time Observation of Destruction of Hydration Shells at Electrified Interfaces", Workshop on Exploring the Structures and Dynamics of Water at Interfaces, Taipei, Taiwan, June, 2012.
188. (Invited) K. Saito and E. H. Sekiya, "Al-codoping effects on optical properties of Pr-doped silica glass", The 6th International Conference on the Science and Technology for Advanced Ceramics, Yokohama, Japan, June, 2012.
189. Z. Duan, M. Liao, X. Yan, T. Suzuki, and Y. Ohishi, "Tellurite Composite Microstructured Optical Fibers with Ultra-flattened, Near-zero Dispersion Profile for Nonlinear Applications", Conference on Lasers and Electro-Optics (CLEO) 2012, San Jose, USA, May, 2012.
190. J. I. Mackenzie, G. S. Murugan, T. Suzuki, Y. Ohishi, A.W. Yu, and J.B. Abshire, "Investigation of Erbium-doped Tellurite Glasses for a Planar Waveguide Power Amplifier at $1.57\mu m$ ", Conference on Lasers and Electro-Optics (CLEO) 2012, San Jose, USA, May, 2012.
191. W. Gao, M. Liao, H. Kawashima, T. Suzuki, and Y. Ohishi, "Dark Pulses Observed in a Mode-locked Long Ring Cavity with Single-mode Tellurite Fiber", Conference on Lasers and Electro-Optics (CLEO) 2012, San Jose, USA, May, 2012.

192. M. Liao, W. Gao, X. Yan, Z. Duan, T. Suzuki, and Y. Ohishi, "Supercontinuum Generation in Short Soft Glass Microstructured Fibers Pumped by Quasi-CW Laser", Conference on Lasers and Electro-Optics (CLEO) 2012, San Jose, USA, May, 2012.
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194. T. Suzuki, K. Mizuno, and Y. Ohishi, "Energy transfer analysis of Tb^{3+} and Yb^{3+} ions doped in borosilicate glass", 2012 Photonics Europe, Brussels, Belgium, April, 2012.
195. X. Yan, M. Liao, Z. Duan, T. H. Tuan, T. Suzuki and Y. Ohishi, "Phase matching in tellurite / phosphor-tellurite hybrid microstructured optical fiber", 2012 Photonics Europe, E. P. Samuel, Brussels, Belgium, April, 2012.
196. Z. Duan, M. Liao, T. Kohoutek, T. H. Tuan, K. Asano, T. Suzuki, and Y. Ohishi, "Tellurite composite microstructured optical fibers with ultra-flattened and zero dispersion", 2012 Photonics Europe, Belgium, April, 2012.
197. R. Cherif, M. Zghal, M. Liao, and Y. Ohishi, "Enhanced stimulated Brillouin scattering in tellurite microstructured fibers", 2012 Photonics Europe, Brussels, Belgium, April, 2012.
198. W. Gao, M. Liao, L. Yang, X. Yan, T. Suzuki, and Y. Ohishi, "All-fiber broadband supercontinuum generation in a single-mode high nonlinear silica fiber", 2012 Photonics Europe, Brussels, Belgium, April, 2012.
199. T. Kohoutek, M.A. Hughes, H. Kawashima, M. Matsumoto, T. Misumi, T. Suzuki, and Y. Ohishi, "Highly efficient relief diffraction gratings inscribed on a chalcogenide bulk glass by a femtosecond laser", 2012 Photonics Europe, Brussels, Belgium, April, 2012.
200. S. Mizuno, H. Ito, K. Hasegawa, T. Suzuki, and Y. Ohishi, "First Laser Oscillation of Solar-pumped Fiber", 1st Advanced Lasers and Photon Sources (ALPS'12), Yokohama, Japan, April, 2012.
201. X. Xue, T. Suzuki, and Y. Ohishi, " Tb^{3+}/Yb^{3+} Co-doped KY_3F_{10} Monodispersed Nanocrystals: Hydrothermal Synthesis and Upconversion Luminescence", 4th International Workshop on

- Photoluminescence in Rare Earths: Photonic Materials and Devices 2012, Kyoto, Japan, March, 2012.
202. 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, Kyoto, Japan, March, 2012.
 203. 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, Kyoto, Japan, March, 2012.
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