Yosuke Tanaka

List of Publications by Year
in descending order

143	1,041	516710 16	526287 27
papers	citations	h-index	g-index

143	143	143	910
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Brillouin gain spectrum manipulation using multifrequency pump and probe for slope-assisted BOTDA with wider dynamic range. Applied Physics Express, 2022, 15, 022009.	2.4	5
2	Sensitivity improvement of submicron dynamic displacement measurement system composed of phase-modulated fiber optic interferometer. Japanese Journal of Applied Physics, 2022, 61, SK1007.	1.5	1
3	Slope Assisted Brillouin Optical Time Domain Analysis Using Dual Frequency Probe with Gain and Loss Spectra. , 2021, , .		1
4	Discriminative sensing of temperature and acoustic impedance by using forward Brillouin scattering in large effective area fiber. Applied Physics Express, 2021, 14, 042004.	2.4	11
5	Multipoint Curvature Sensing with Multicore Fiber Bragg Gratings and Two-Photon Absorption Process in Si-APD. , 2021, , .		0
6	Multipoint Bending Measurement Using Multicore Fiber Bragg Grating and Two-Photon Absorption Process in Si-APD. IEEE Sensors Journal, 2021, 21, 25736-25742.	4.7	9
7	Laser displacement measurement using intensity modulation with a phase-modulated radio-frequency signal. Applied Physics Express, 2021, 14, 012004.	2.4	1
8	Distributed strain sensing using slope assisted BOTDA based on virtual Brillouin gain spectrum synthesized by multi-frequency light. , 2021, , .		2
9	Basic study of temperature independent fiber bending sensor for catheters using multicore fiber Bragg grating and two-photon absorption process in Si-APD. , 2021, , .		0
10	Sensitivity improvement of dynamic displacement measurement system composed of phase-modulated fiber optic interferometer. , 2021, , .		1
11	Bandwidth expansion of 12.5-GHz-spaced laser frequency comb in near-infrared region by improving pulse compression magnification. , 2021, , .		1
12	Experimental Demonstration of 3-D Curvature Sensing Using Multicore FBG and Distance Measurement based on Two-Photon Absorption Process in Si-APD. , 2021, , .		0
13	Dynamic displacement measurement beyond half-wavelength in phase-modulated optical interferometer. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, B78.	1.5	13
14	Experimental investigation of multicore fiber Bragg gratingâ€™s crosstalk for curvature sensing. , 2020, , .		1
15	Brillouin Optical Time Domain Analysis Using Spectrally Reshaped 12-GHz Spacing Multimode Pump and Probe. , 2020, , .		1
16	Sensitivity enhancement of distributed Brillouin fiber optic sensing using two-frequency pump and probe. , 2020, , .		0
17	Distance measurement based on two-photon absorption process in Si-avalanche photodiode with pulsed reference light. , 2020, , .		0
18	Real-time laser displacement measurement based on intensity correlation with phase-modulated signal and its measurement range extension. , 2020, , .		1

#	Article	IF	Citations
19	Infrared- Thermometer-Based Detection of Optical Fiber Breakage in Structure. , 2019, , .		1
20	Highly Sensitive Measurement of Fiber Strain Based on Multimode Stimulated Brillouin Scattering. , 2019, , .		0
21	Infrared thermometry for breakage detection of optical fibers embedded in structures. Applied Physics Express, 2019, 12, 062007.	2.4	1
22	Time division multiplexing for multipoint measurement of dynamic displacement using interferometer with phase-modulated reference light. Japanese Journal of Applied Physics, 2019, 58, 050902.	1.5	11
23	Three-Dimensional Bending Measurement Using Multicore Fiber Bragg Grating and Two-Photon Absorption Process in Si-APD. , 2019, , .		0
24	Generation of broadband frequency-variable laser comb allowing full-frequency sweep in the near-infrared region. Optics Communications, 2019, 438, 13-17.	2.1	2
25	Data compensation and fiber optic probe for dynamic displacement measurement system with sinusoidally phase modulated reference light. Japanese Journal of Applied Physics, 2019, 58, 122001.	1.5	10
26	Directional Curvature Sensing Using Multicore Fiber Bragg Grating and Two-Photon Absorption Process in Si-APD. , 2019, , .		2
27	Fiber-interferometer-based dynamic displacement sensor with triangle and stepwise phase modulation on the reference light. , 2019, , .		0
28	Real-Time Displacement Measurement Based on Intensity Correlation Between Reflected Probe Light and Phase Modulated Signal. , 2019, , .		0
29	Interference signal processing for dynamic displacement measurement with 1 ns time resolution. Applied Physics Express, 2018, 11, 012501.	2.4	22
30	Multipoint Fiber Bragg Grating Sensing Using Two-Photon Absorption Process in Silicon Avalanche Photodiode. Journal of Lightwave Technology, 2018, 36, 1032-1038.	4.6	19
31	Error dependence on operating point for phase modulation in dynamic displacement measurement using interference signal envelope. Japanese Journal of Applied Physics, 2018, 57, 08PE05.	1.5	14
32	Interferometric dynamic displacement measurement using phase-modulated light along with stepwise control of operation point. Applied Physics Express, 2018, 11, 112501.	2.4	15
33	Distributed strain measurement and possible breakage detection of optical-fiber-embedded composite structure using slope-assisted Brillouin optical correlation-domain reflectometry. Applied Physics Express, 2018, 11, 072501.	2.4	8
34	Displacement Measurement Using Two-Photon Absorption Process in Si-Avalanche Photodiode and Fiber Bragg Gratings. Journal of Lightwave Technology, 2018, 36, 1192-1196.	4.6	16
35	Performance tests of Subaru/IRD for very precise and stable infrared radial velocity observations. , 2018, , .		8
36	The infrared Doppler (IRD) instrument for the Subaru telescope: instrument description and commissioning results. , 2018, , .		44

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37	Scanless Brillouin Gain Spectrum Measurement Based on Multi-heterodyne Detection. , 2018, , .		0
38	Fiber Fault Detection Using Brillouin Amplification and Two-Photon Absorption Process in Si-APD. , 2018, , .		0
39	Fiber Optic Dynamic Displacement Sensing Using Phase-Modulated Reference Light and Partially Unjacketed Probe Fiber. , 2018, , .		0
40	Refractive index sensing using ultrasonically crushed polymer optical fibers. Applied Physics Express, 2017, 10, 012201.	2.4	2
41	Multi-point strain and displacement sensor based on intensity-modulated light and two-photon absorption process in Si-avalanche photodiode. , 2017, , .		0
42	Dynamic displacement measurement based on triangle phase modulation without preliminary measurement of half-wave voltage for phase modulator. Measurement Science and Technology, 2017, 28, 045207.	2.6	20
43	Brillouin frequency shift measurement with virtually controlled sensitivity. Applied Physics Express, 2017, 10, 062504.	2.4	13
44	Proposal of interference signal processing for dynamic displacement measurement with high time-resolution. , 2017, , .		1
45	Tens-of-nanometer-scale dynamic displacement measurement using active change of operation point for phase modulator. , 2017, , .		0
46	Basic study on real-time vibration displacement measurement using probe light modulated by phase-modulated RF signal. , 2017, , .		1
47	Observation of stimulated brillouin scattering growth along optical fiber using two-photon absorption process in a silicon avalanche photodiode. , 2017, , .		0
48	Pilot demonstration of refractive index sensing using polymer optical fiber crushed with slotted screwdriver. IEICE Electronics Express, 2017, 14, 20170962-20170962.	0.8	3
49	Sensitivity Enhancement of Brillouin Frequency Shift Measurement Based on Multispectral Pump and Probe. , 2017, , .		0
50	12.5-GHz-spaced laser frequency comb covering over 100 THz and frequency shift of all individual lines for calibration of infrared Doppler instrument. , 2016, , .		0
51	Low power fiber sensor network deploying both wired and wireless sensors using optical power supply with WDM technique. , 2016, , .		0
52	Contrast improvement with imperfect pre-coronagraph and dark-hole. Proceedings of SPIE, 2016, , .	0.8	0
53	Ultrasonic welding of polymer optical fibres onto composite materials. Electronics Letters, 2016, 52, 1472-1474.	1.0	8
54	Direct generation of 125-GHz-spaced optical frequency comb with ultrabroad coverage in near-infrared region by cascaded fiber configuration. Optics Express, 2016, 24, 8120.	3.4	26

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55	High-resolution spectroscopy using a frequency-variable comb light source. , 2016, , .		0
56	12.5-GHz-spaced laser frequency comb covering Y, J, and H bands for infrared Doppler instrument. Proceedings of SPIE, 2016, , .	0.8	6
57	Simple and Precise Measurement of Dynamic Displacement for More-Than-10-MHz Vibration. , 2016, , .		2
58	Simultaneous Measurement of Distance and Temperature Using FBGs and Two-Photon Absorption Process in Si-APD. , 2016, , .		1
59	Extra-solar planets exploration using frequency comb: Infrared Doppler instrument for the Subaru telescope (IRD). , 2015, , .		0
60	Coronagraph experiment on dark-hole control by speckle area nulling method. Optical Review, 2015, 22, 736-740.	2.0	6
61	Low-contrast pre-coronagraph for extra contrast of dark-hole. Proceedings of the International Astronomical Union, 2015, 11, 213-213.	0.0	0
62	Distance Measurement Using Second Harmonic Signal Component of Two-Photon Absorption Photocurrent from Si-APD. , 2015, , .		0
63	Temporal Imaging of Optical Asymmetric Waveform Pulses With a Time Lens. IEEE Photonics Journal, 2015, 7, 1-11.	2.0	1
64	Wide range distance measurement over 50â€‰km based on highly sensitive detection of the two-photon absorption photocurrent from a Si-APD. Measurement Science and Technology, 2015, 26, 025205.	2.6	12
65	Precision distance measurement using a two-photon absorption process in a silicon avalanche photodiode with saw-tooth phase modulation. Applied Optics, 2015, 54, E35.	2.1	13
66	Adaptive optics operation with focal wavefront sensor in a coronagraph for direct observation of exoplanets. , 2014, , .		0
67	A coronagraph system with unbalanced nulling interferometer: progress of optics and control method. , 2014, , .		0
68	Frequency-Variable Comb Light Source Using an Optical Frequency Shifter. , 2014, , .		0
69	Infrared Doppler instrument (IRD) for the Subaru telescope to search for Earth-like planets around nearby M-dwarfs. Proceedings of SPIE, 2014, , .	0.8	36
70	Measurement of high-frequency dynamic displacement using light phase-modulated with triangle waveform. Measurement Science and Technology, 2014, 25, 025202.	2.6	23
71	Distance Measurement Using Serrodyne Modulation and Two-Photon Absorption Process in Si-APD. , 2014, , .		0
72	Dynamic Displacement Measurement System with Auto Calibration Using Deeply-Phase Modulated Light. , 2014, , .		2

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73	Distance measurement over 30 km using highly sensitive two-photon detection. , 2013, , .		0
74	Polarization independent camera node based on fiber optic power supply. , 2013, , .		0
75	Optically powered hybrid node controlling wired and wireless sensors for wide-area sensor network. , 2013, , .		1
76	Experimental evaluation of vibration sensor based on interferometer with phase modulated light. , 2013, , .		0
77	Dark soliton synthesis using an optical pulse synthesizer and transmission through a normal-dispersion optical fiber. Optics Express, 2013, 21, 30886.	3.4	2
78	400-nm-Spanning Astro-Comb Directly Generated from Synthesized Pump Pulse with Repetition Rate of 12.5 GHz. , 2013, , .		0
79	Precise Measurement of High-Speed Vibration Displacement Using Triangle-Wave Phase Modulation. , 2013, , .		0
80	Fiber transmission of high power phase only pulse and its dispersion compensation. , 2012, , .		0
81	A fiber sensor network using fiber optic power supply. Proceedings of SPIE, 2012, , .	0.8	2
82	Unbalanced nulling interferometer with four-quadrant phase mask. , 2012, , .		2
83	Fiber transmission characteristics of phase only pulse and its dispersion compensation in high power regime. IEICE Electronics Express, 2012, 9, 410-415.	0.8	1
84	Infrared Doppler instrument for the Subaru Telescope (IRD). Proceedings of SPIE, 2012, , .	0.8	60
85	Dark Soliton Synthesis Using Optical Pulse Synthesizer and Soliton Transmission in Normal Dispersion Regime. , 2012, , .		0
86	Laser-Driven Low-Power Fiber Sensor Network Integrated with Wireless Sensors. , 2012, , .		4
87	A wide-area fiber sensor network with optical power supply. Proceedings of SPIE, 2011, , .	0.8	0
88	Distance displacement measurement with two-photon absorption process in Si-APD and high-speed optical millimeter wave scanner. , 2011, , .		0
89	Generation of Phase Only Pulses Using Optical Pulse Synthesizer. Applied Physics Express, 2011, 4, 092703.	2.4	3
90	A Wide-Area Sensor Network Based on Fiber Optic Power Supply. Japanese Journal of Applied Physics, 2011, 50, 112501.	1.5	7

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91	Generation of phase only pulses and their fiber transmission characteristics. , 2011, , .		0
92	A Wide-Area Sensor Network Based on Fiber Optic Power Supply. Japanese Journal of Applied Physics, 2011, 50, 112501.	1.5	3
93	Fiber transmission characteristics of optical solitons generated by optical pulse synthesizer. , 2009, , .		0
94	Supercontinuum Comb Generation Using Optical Pulse Synthesizer and Highly Nonlinear Dispersion-Shifted Fiber. Japanese Journal of Applied Physics, 2009, 48, 09LF01.	1.5	15
95	Multicarrier Light Source with 50 GHz Spacing and Its Application in Dense Wavelength Division Multiplexing System. Japanese Journal of Applied Physics, 2009, 48, 09LF04.	1.5	1
96	Power line monitoring system using fiber optic power supply. Optical Review, 2009, 16, 257-261.	2.0	14
97	High-resolution spectroscopy based on optical phase modulator and optical frequency comb. Optics Communications, 2009, 282, 2909-2912.	2.1	12
98	Generation of 100-Gb/s Packets Having 8-Bit Return-to-Zero Patterns Using an Optical Pulse Synthesizer With a Lookup Table. IEEE Photonics Technology Letters, 2009, 21, 39-41.	2.5	18
99	Fiber Transmission Characteristics of Optical Short Pulses Generated by Optical Pulse Synthesizer. Japanese Journal of Applied Physics, 2009, 48, 09LF02.	1.5	9
100	TPA-based distance measurement using high-speed frequency scanner. , 2009, , .		0
101	Fiber sensor network with optical power supply. , 2009, , .		5
102	Tunable Pulse Compression Technique Using Optical Pulse Synthesizer. , 2009, , .		2
103	Analog and Digital Optical Pulse Synthesizers Using Arrayed-Waveguide Gratings for High-Speed Optical Signal Processing. Journal of Lightwave Technology, 2008, 26, 670-677.	4.6	50
104	Frequency scanning spectroscopy of optical frequency comb with high-resolution on an absolute frequency axis. , 2008, , .		0
105	Three-dimensional microscopic interferometer by frequency sweep of supercontinuum frequency comb. , 2008, , .		0
106	High-resolution Spectroscopy using Phase Modulation of Frequency Comb Light. , 2007, , .		0
107	Frequency-Comb-Based Interference Microscope with a Line-Type Image Sensor. Japanese Journal of Applied Physics, 2007, 46, 6842-6847.	1.5	14
108	Application of Faraday Rotator Reflector and Faraday Rotator Transmitter to Profilometry and Tomography. Japanese Journal of Applied Physics, 2007, 46, 6848-6852.	1.5	0

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109	1 MHz-Resolution Spectroscopy Based on Light Frequency Sweeping Using a Single-Sideband Optical Modulator. Japanese Journal of Applied Physics, 2007, 46, 3626-3629.	1.5	18
110	Resolution and Noise Factor of Distance Measurement Using Two-Photon Absorption Process in Photodetector. Japanese Journal of Applied Physics, 2007, 46, 5331.	1.5	8
111	Generation of 100-Gbps optical packets with 8-bit RZ pulse patterns using an optical pulse synthesizer. , 2007, , .		2
112	Automatic short-pulse reshaping for high-speed optical communication systems. , 2007, , .		0
113	Accuracy of distance measurement based on two-photon absorption of Si-photodetector. , 2007, , .		0
114	Generation of 1.4 Gbps BPSK signal with 22 GHz millimeter wave carrier using optical homodyne detection. , 2007, , .		0
115	100-km DWDM transmission with 50-GHz channel spacing using a frequency-comb light source. , 2007, , .		0
116	Frequency comb based interference microscope with a line-type image sensor. , 2007, , .		0
117	Frequency-comb-based interferometer for profilometry and tomography. Optics Letters, 2006, 31, 1976.	3.3	62
118	Long Fiber Reflectometry by Use of Two-Photon Absorption Process in Si-APD. , 2006, , ThC3.		0
119	Fiber optic remote sensor based on laser powering and liquid-crystal-based optical modulator. , 2005, , .		1
120	Photovoltaic cell characteristics for high-intensity laser light. Solar Energy Materials and Solar Cells, 2005, 86, 253-267.	6.2	12
121	Waveform Measurement of Ultra-Short Optical Pulses Based on Two-Photon Absorption in Si-Image Sensor. Optical Review, 2005, 12, 122-125.	2.0	2
122	Common-path achromatic interferometerâ€“coronagraph: nulling of polychromatic light. Optics Letters, 2005, 30, 2224.	3.3	47
123	Optical spectrum analyzer based on arrayed waveguide grating for high-speed optical communication systems. IEEE Photonics Technology Letters, 2005, 17, 432-434.	2.5	13
124	Profilometry using optical microwaves with different carrier frequencies and two-photon absorption process of photodetector. IEEE Photonics Technology Letters, 2005, 17, 2682-2684.	2.5	10
125	Simultaneous power and signal transmission using fiber-optic systems. The Review of Laser Engineering, 2005, 33, 237-238.	0.0	0
126	Guided-acoustic-wave Brillouin scattering observed backward by stimulated Brillouin scattering. Measurement Science and Technology, 2004, 15, 1458-1461.	2.6	15

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127	Circular Polarization Resonator based on Cholesteric Liquid Crystal. Japanese Journal of Applied Physics, 2004, 43, 1062-1067.	1.5	8
128	Design approaches to power-over-optical local-area-network systems. Applied Optics, 2004, 43, 1379.	2.1	37
129	Achromatic coronagraph based on out-of-plane common-path nulling interferometer. , 2004, , .		5
130	Profilometry based on two-photon absorption in a silicon avalanche photodiode. Optics Letters, 2003, 28, 402.	3.3	22
131	Profilometry using two-photon absorption of silicon avalanche photodiode. , 2002, 4919, 102.		0
132	Analysis on Fabry-Perot Interferometer using Cholesteric Liquid Crystal. Molecular Crystals and Liquid Crystals, 2001, 368, 37-43.	0.3	2
133	Polarization Dependence of Depolarized Guided Acoustic-wave Brillouin Scattering Detected after an Analyzer. Journal of Optical Communications, 2000, 21, .	4.7	2
134	Tensile-strain coefficient of resonance frequency of depolarized guided acoustic-wave Brillouin scattering. IEEE Photonics Technology Letters, 1999, 11, 865-867.	2.5	54
135	Polarization dependence of amplitude modulation by guided acoustic-wave Brillouin scattering. , 1999, , .		0
136	Temperature coefficient of sideband frequencies produced by depolarized guided acoustic-wave Brillouin scattering. IEEE Photonics Technology Letters, 1998, 10, 1769-1771.	2.5	51
137	Analysis of fiber Brillouin ring laser composed of single-polarization single-mode fiber. Journal of Lightwave Technology, 1997, 15, 838-844.	4.6	11
138	Brillouin fiber-optic gyro with directional sensitivity. IEEE Photonics Technology Letters, 1996, 8, 1367-1369.	2.5	12
139	Fiber Brillouin ring laser without instability due to interaction between the polarization lateral modes. IEEE Photonics Technology Letters, 1995, 7, 482-484.	2.5	10
140	Analysis on state of polarization of stimulated Brillouin scattering in an optical fiber ring-resonator. Journal of Lightwave Technology, 1995, 13, 384-390.	4.6	13
141	Optical Reflectometry for 10 km fibers based on two photon absorption. , 0, , .		0
142	A Novel Profilometry Using Frequency Comb Light Source. , 0, , .		0
143	10, 20 and 30 GHz repetition rate Optical Pulse Generation based on a AWG with Integrated Phase and Intensity Modulators. , 0, , .		2