

Yosuke Tanaka

List of Publications by Year in descending order

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143
papers

1,041
citations

516215

16
h-index

525886

27
g-index

143
all docs

143
docs citations

143
times ranked

910
citing authors

#	ARTICLE	IF	CITATIONS
1	Frequency-comb-based interferometer for profilometry and tomography. Optics Letters, 2006, 31, 1976.	1.7	62
2	Infrared Doppler instrument for the Subaru Telescope (IRD). Proceedings of SPIE, 2012, , .	0.8	60
3	Tensile-strain coefficient of resonance frequency of depolarized guided acoustic-wave Brillouin scattering. IEEE Photonics Technology Letters, 1999, 11, 865-867.	1.3	54
4	Temperature coefficient of sideband frequencies produced by depolarized guided acoustic-wave Brillouin scattering. IEEE Photonics Technology Letters, 1998, 10, 1769-1771.	1.3	51
5	Analog and Digital Optical Pulse Synthesizers Using Arrayed-Waveguide Gratings for High-Speed Optical Signal Processing. Journal of Lightwave Technology, 2008, 26, 670-677.	2.7	50
6	Common-path achromatic interferometerâ€“coronagraph: nulling of polychromatic light. Optics Letters, 2005, 30, 2224.	1.7	47
7	The infrared Doppler (IRD) instrument for the Subaru telescope: instrument description and commissioning results. , 2018, , .		44
8	Design approaches to power-over-optical local-area-network systems. Applied Optics, 2004, 43, 1379.	2.1	37
9	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
10	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.	1.7	26
11	Measurement of high-frequency dynamic displacement using light phase-modulated with triangle waveform. Measurement Science and Technology, 2014, 25, 025202.	1.4	23
12	Profilometry based on two-photon absorption in a silicon avalanche photodiode. Optics Letters, 2003, 28, 402.	1.7	22
13	Interference signal processing for dynamic displacement measurement with 1 ns time resolution. Applied Physics Express, 2018, 11, 012501.	1.1	22
14	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.	1.4	20
15	Multipoint Fiber Bragg Grating Sensing Using Two-Photon Absorption Process in Silicon Avalanche Photodiode. Journal of Lightwave Technology, 2018, 36, 1032-1038.	2.7	19
16	1 MHz-Resolution Spectroscopy Based on Light Frequency Sweeping Using a Single-Sideband Optical Modulator. Japanese Journal of Applied Physics, 2007, 46, 3626-3629.	0.8	18
17	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.	1.3	18
18	Displacement Measurement Using Two-Photon Absorption Process in Si-Avalanche Photodiode and Fiber Bragg Gratings. Journal of Lightwave Technology, 2018, 36, 1192-1196.	2.7	16

#	ARTICLE	IF	CITATIONS
19	Guided-acoustic-wave Brillouin scattering observed backward by stimulated Brillouin scattering. <i>Measurement Science and Technology</i> , 2004, 15, 1458-1461.	1.4	15
20	Supercontinuum Comb Generation Using Optical Pulse Synthesizer and Highly Nonlinear Dispersion-Shifted Fiber. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 09LF01.	0.8	15
21	Interferometric dynamic displacement measurement using phase-modulated light along with stepwise control of operation point. <i>Applied Physics Express</i> , 2018, 11, 112501.	1.1	15
22	Frequency-Comb-Based Interference Microscope with a Line-Type Image Sensor. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 6842-6847.	0.8	14
23	Power line monitoring system using fiber optic power supply. <i>Optical Review</i> , 2009, 16, 257-261.	1.2	14
24	Error dependence on operating point for phase modulation in dynamic displacement measurement using interference signal envelope. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 08PE05.	0.8	14
25	Analysis on state of polarization of stimulated Brillouin scattering in an optical fiber ring-resonator. <i>Journal of Lightwave Technology</i> , 1995, 13, 384-390.	2.7	13
26	Optical spectrum analyzer based on arrayed waveguide grating for high-speed optical communication systems. <i>IEEE Photonics Technology Letters</i> , 2005, 17, 432-434.	1.3	13
27	Precision distance measurement using a two-photon absorption process in a silicon avalanche photodiode with saw-tooth phase modulation. <i>Applied Optics</i> , 2015, 54, E35.	2.1	13
28	Brillouin frequency shift measurement with virtually controlled sensitivity. <i>Applied Physics Express</i> , 2017, 10, 062504.	1.1	13
29	Dynamic displacement measurement beyond half-wavelength in phase-modulated optical interferometer. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, B78.	0.8	13
30	Brillouin fiber-optic gyro with directional sensitivity. <i>IEEE Photonics Technology Letters</i> , 1996, 8, 1367-1369.	1.3	12
31	Photovoltaic cell characteristics for high-intensity laser light. <i>Solar Energy Materials and Solar Cells</i> , 2005, 86, 253-267.	3.0	12
32	High-resolution spectroscopy based on optical phase modulator and optical frequency comb. <i>Optics Communications</i> , 2009, 282, 2909-2912.	1.0	12
33	Wide range distance measurement over 50km based on highly sensitive detection of the two-photon absorption photocurrent from a Si-APD. <i>Measurement Science and Technology</i> , 2015, 26, 025205.	1.4	12
34	Analysis of fiber Brillouin ring laser composed of single-polarization single-mode fiber. <i>Journal of Lightwave Technology</i> , 1997, 15, 838-844.	2.7	11
35	Time division multiplexing for multipoint measurement of dynamic displacement using interferometer with phase-modulated reference light. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 050902.	0.8	11
36	Discriminative sensing of temperature and acoustic impedance by using forward Brillouin scattering in large effective area fiber. <i>Applied Physics Express</i> , 2021, 14, 042004.	1.1	11

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37	Fiber Brillouin ring laser without instability due to interaction between the polarization lateral modes. IEEE Photonics Technology Letters, 1995, 7, 482-484.	1.3	10
38	Profilometry using optical microwaves with different carrier frequencies and two-photon absorption process of photodetector. IEEE Photonics Technology Letters, 2005, 17, 2682-2684.	1.3	10
39	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.	0.8	10
40	Fiber Transmission Characteristics of Optical Short Pulses Generated by Optical Pulse Synthesizer. Japanese Journal of Applied Physics, 2009, 48, 09LF02.	0.8	9
41	Multipoint Bending Measurement Using Multicore Fiber Bragg Grating and Two-Photon Absorption Process in Si-APD. IEEE Sensors Journal, 2021, 21, 25736-25742.	2.4	9
42	Circular Polarization Resonator based on Cholesteric Liquid Crystal. Japanese Journal of Applied Physics, 2004, 43, 1062-1067.	0.8	8
43	Resolution and Noise Factor of Distance Measurement Using Two-Photon Absorption Process in Photodetector. Japanese Journal of Applied Physics, 2007, 46, 5331.	0.8	8
44	Ultrasonic welding of polymer optical fibres onto composite materials. Electronics Letters, 2016, 52, 1472-1474.	0.5	8
45	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.	1.1	8
46	Performance tests of Subaru/IRD for very precise and stable infrared radial velocity observations. , 2018, , .		8
47	A Wide-Area Sensor Network Based on Fiber Optic Power Supply. Japanese Journal of Applied Physics, 2011, 50, 112501.	0.8	7
48	Coronagraph experiment on dark-hole control by speckle area nulling method. Optical Review, 2015, 22, 736-740.	1.2	6
49	12.5-GHz-spaced laser frequency comb covering Y, J, and H bands for infrared Doppler instrument. Proceedings of SPIE, 2016, , .	0.8	6
50	Achromatic coronagraph based on out-of-plane common-path nulling interferometer. , 2004, , .		5
51	Fiber sensor network with optical power supply. , 2009, , .		5
52	Brillouin gain spectrum manipulation using multifrequency pump and probe for slope-assisted BOTDA with wider dynamic range. Applied Physics Express, 2022, 15, 022009.	1.1	5
53	Laser-Driven Low-Power Fiber Sensor Network Integrated with Wireless Sensors. , 2012, , .		4
54	Generation of Phase Only Pulses Using Optical Pulse Synthesizer. Applied Physics Express, 2011, 4, 092703.	1.1	3

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55	Pilot demonstration of refractive index sensing using polymer optical fiber crushed with slotted screwdriver. IEICE Electronics Express, 2017, 14, 20170962-20170962.	0.3	3
56	A Wide-Area Sensor Network Based on Fiber Optic Power Supply. Japanese Journal of Applied Physics, 2011, 50, 112501.	0.8	3
57	Polarization Dependence of Depolarized Guided Acoustic-wave Brillouin Scattering Detected after an Analyzer. Journal of Optical Communications, 2000, 21, .	4.0	2
58	Analysis on Fabry-Perot Interferometer using Cholesteric Liquid Crystal. Molecular Crystals and Liquid Crystals, 2001, 368, 37-43.	0.3	2
59	Waveform Measurement of Ultra-Short Optical Pulses Based on Two-Photon Absorption in Si-Image Sensor. Optical Review, 2005, 12, 122-125.	1.2	2
60	10, 20 and 30 GHz repetition rate Optical Pulse Generation based on a AWG with Integrated Phase and Intensity Modulators. , 0, , .		2
61	Generation of 100-Gbps optical packets with 8-bit RZ pulse patterns using an optical pulse synthesizer. , 2007, , .		2
62	A fiber sensor network using fiber optic power supply. Proceedings of SPIE, 2012, , .	0.8	2
63	Unbalanced nulling interferometer with four-quadrant phase mask. , 2012, , .		2
64	Dark soliton synthesis using an optical pulse synthesizer and transmission through a normal-dispersion optical fiber. Optics Express, 2013, 21, 30886.	1.7	2
65	Refractive index sensing using ultrasonically crushed polymer optical fibers. Applied Physics Express, 2017, 10, 012201.	1.1	2
66	Generation of broadband frequency-variable laser comb allowing full-frequency sweep in the near-infrared region. Optics Communications, 2019, 438, 13-17.	1.0	2
67	Tunable Pulse Compression Technique Using Optical Pulse Synthesizer. , 2009, , .		2
68	Dynamic Displacement Measurement System with Auto Calibration Using Deeply-Phase Modulated Light. , 2014, , .		2
69	Simple and Precise Measurement of Dynamic Displacement for More-Than-10-MHz Vibration. , 2016, , .		2
70	Directional Curvature Sensing Using Multicore Fiber Bragg Grating and Two-Photon Absorption Process in Si-APD. , 2019, , .		2
71	Distributed strain sensing using slope assisted BOTDA based on virtual Brillouin gain spectrum synthesized by multi-frequency light. , 2021, , .		2
72	Fiber optic remote sensor based on laser powering and liquid-crystal-based optical modulator. , 2005, , .		1

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73	Multicarrier Light Source with 50 GHz Spacing and Its Application in Dense Wavelength Division Multiplexing System. Japanese Journal of Applied Physics, 2009, 48, 09LF04.	0.8	1
74	Fiber transmission characteristics of phase only pulse and its dispersion compensation in high power regime. IEICE Electronics Express, 2012, 9, 410-415.	0.3	1
75	Optically powered hybrid node controlling wired and wireless sensors for wide-area sensor network. , 2013, , .		1
76	Temporal Imaging of Optical Asymmetric Waveform Pulses With a Time Lens. IEEE Photonics Journal, 2015, 7, 1-11.	1.0	1
77	Proposal of interference signal processing for dynamic displacement measurement with high time-resolution. , 2017, , .		1
78	Basic study on real-time vibration displacement measurement using probe light modulated by phase-modulated RF signal. , 2017, , .		1
79	Infrared- Thermometer-Based Detection of Optical Fiber Breakage in Structure. , 2019, , .		1
80	Infrared thermometry for breakage detection of optical fibers embedded in structures. Applied Physics Express, 2019, 12, 062007.	1.1	1
81	Slope Assisted Brillouin Optical Time Domain Analysis Using Dual Frequency Probe with Gain and Loss Spectra. , 2021, , .		1
82	Simultaneous Measurement of Distance and Temperature Using FBGs and Two-Photon Absorption Process in Si-APD. , 2016, , .		1
83	Experimental investigation of multicore fiber Bragg grating's crosstalk for curvature sensing. , 2020, , .		1
84	Laser displacement measurement using intensity modulation with a phase-modulated radio-frequency signal. Applied Physics Express, 2021, 14, 012004.	1.1	1
85	Brillouin Optical Time Domain Analysis Using Spectrally Reshaped 12-GHz Spacing Multimode Pump and Probe. , 2020, , .		1
86	Real-time laser displacement measurement based on intensity correlation with phase-modulated signal and its measurement range extension. , 2020, , .		1
87	Sensitivity improvement of dynamic displacement measurement system composed of phase-modulated fiber optic interferometer. , 2021, , .		1
88	Bandwidth expansion of 12.5-GHz-spaced laser frequency comb in near-infrared region by improving pulse compression magnification. , 2021, , .		1
89	Sensitivity improvement of submicron dynamic displacement measurement system composed of phase-modulated fiber optic interferometer. Japanese Journal of Applied Physics, 2022, 61, SK1007.	0.8	1
90	Profilometry using two-photon absorption of silicon avalanche photodiode. , 2002, 4919, 102.		0

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91	Optical Reflectometry for 10 km fibers based on two photon absorption. , 0, , .		0
92	A Novel Profilometry Using Frequency Comb Light Source. , 0, , .		0
93	Long Fiber Reflectometry by Use of Two-Photon Absorption Process in Si-APD. , 2006, , ThC3.		0
94	High-resolution Spectroscopy using Phase Modulation of Frequency Comb Light. , 2007, , .		0
95	Application of Faraday Rotator Reflector and Faraday Rotator Transmitter to Profilometry and Tomography. Japanese Journal of Applied Physics, 2007, 46, 6848-6852.	0.8	0
96	Automatic short-pulse reshaping for high-speed optical communication systems. , 2007, , .		0
97	Accuracy of distance measurement based on two-photon absorption of Si-photodetector. , 2007, , .		0
98	Generation of 1.4 Gbps BPSK signal with 22 GHz millimeter wave carrier using optical homodyne detection. , 2007, , .		0
99	100-km DWDM transmission with 50-GHz channel spacing using a frequency-comb light source. , 2007, , .		0
100	Frequency comb based interference microscope with a line-type image sensor. , 2007, , .		0
101	Frequency scanning spectroscopy of optical frequency comb with high-resolution on an absolute frequency axis. , 2008, , .		0
102	Fiber transmission characteristics of optical solitons generated by optical pulse synthesizer. , 2009, , .		0
103	TPA-based distance measurement using high-speed frequency scanner. , 2009, , .		0
104	A wide-area fiber sensor network with optical power supply. Proceedings of SPIE, 2011, , .	0.8	0
105	Distance displacement measurement with two-photon absorption process in Si-APD and high-speed optical millimeter wave scanner. , 2011, , .		0
106	Generation of phase only pulses and their fiber transmission characteristics. , 2011, , .		0
107	Fiber transmission of high power phase only pulse and its dispersion compensation. , 2012, , .		0
108	Distance measurement over 30 km using highly sensitive two-photon detection. , 2013, , .		0

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109	Polarization independent camera node based on fiber optic power supply. , 2013, , .		0
110	Experimental evaluation of vibration sensor based on interferometer with phase modulated light. , 2013, , .		0
111	Adaptive optics operation with focal wavefront sensor in a coronagraph for direct observation of exoplanets. , 2014, , .		0
112	A coronagraph system with unbalanced nulling interferometer: progress of optics and control method. , 2014, , .		0
113	Frequency-Variable Comb Light Source Using an Optical Frequency Shifter. , 2014, , .		0
114	Distance Measurement Using Serrodyne Modulation and Two-Photon Absorption Process in Si-APD. , 2014, , .		0
115	Extra-solar planets exploration using frequency comb: Infrared Doppler instrument for the Subaru telescope (IRD). , 2015, , .		0
116	Low-contrast pre-coronagraph for extra contrast of dark-hole. Proceedings of the International Astronomical Union, 2015, 11, 213-213.	0.0	0
117	Distance Measurement Using Second Harmonic Signal Component of Two-Photon Absorption Photocurrent from Si-APD. , 2015, , .		0
118	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
119	Low power fiber sensor network deploying both wired and wireless sensors using optical power supply with WDM technique. , 2016, , .		0
120	Contrast improvement with imperfect pre-coronagraph and dark-hole. Proceedings of SPIE, 2016, , .	0.8	0
121	High-resolution spectroscopy using a frequency-variable comb light source. , 2016, , .		0
122	Multi-point strain and displacement sensor based on intensity-modulated light and two-photon absorption process in Si-avalanche photodiode. , 2017, , .		0
123	Tens-of-nanometer-scale dynamic displacement measurement using active change of operation point for phase modulator. , 2017, , .		0
124	Observation of stimulated brillouin scattering growth along optical fiber using two-photon absorption process in a silicon avalanche photodiode. , 2017, , .		0
125	Highly Sensitive Measurement of Fiber Strain Based on Multimode Stimulated Brillouin Scattering. , 2019, , .		0
126	Three-Dimensional Bending Measurement Using Multicore Fiber Bragg Grating and Two-Photon Absorption Process in Si-APD. , 2019, , .		0

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127	Multipoint Curvature Sensing with Multicore Fiber Bragg Gratings and Two-Photon Absorption Process in Si-APD. , 2021, , .		0
128	Simultaneous power and signal transmission using fiber-optic systems. The Review of Laser Engineering, 2005, 33, 237-238.	0.0	0
129	Three-dimensional microscopic interferometer by frequency sweep of supercontinuum frequency comb. , 2008, , .		0
130	Dark Soliton Synthesis Using Optical Pulse Synthesizer and Soliton Transmission in Normal Dispersion Regime. , 2012, , .		0
131	400-nm-Spanning Astro-Comb Directly Generated from Synthesized Pump Pulse with Repetition Rate of 12.5 GHz. , 2013, , .		0
132	Precise Measurement of High-Speed Vibration Displacement Using Triangle-Wave Phase Modulation. , 2013, , .		0
133	Polarization dependence of amplitude modulation by guided acoustic-wave Brillouin scattering. , 1999, , .		0
134	Sensitivity Enhancement of Brillouin Frequency Shift Measurement Based on Multispectral Pump and Probe. , 2017, , .		0
135	Scanless Brillouin Gain Spectrum Measurement Based on Multi-heterodyne Detection. , 2018, , .		0
136	Fiber Fault Detection Using Brillouin Amplification and Two-Photon Absorption Process in Si-APD. , 2018, , .		0
137	Fiber Optic Dynamic Displacement Sensing Using Phase-Modulated Reference Light and Partially Unjacketed Probe Fiber. , 2018, , .		0
138	Fiber-interferometer-based dynamic displacement sensor with triangle and stepwise phase modulation on the reference light. , 2019, , .		0
139	Real-Time Displacement Measurement Based on Intensity Correlation Between Reflected Probe Light and Phase Modulated Signal. , 2019, , .		0
140	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
141	Sensitivity enhancement of distributed Brillouin fiber optic sensing using two-frequency pump and probe. , 2020, , .		0
142	Distance measurement based on two-photon absorption process in Si-avalanche photodiode with pulsed reference light. , 2020, , .		0
143	Experimental Demonstration of 3-D Curvature Sensing Using Multicore FBG and Distance Measurement based on Two-Photon Absorption Process in Si-APD. , 2021, , .		0