Kentaro Nakamura

List of Publications by Year
in descending order

386	6,507	37	61
papers	citations	h-index	g-index

398	398	398	2261
all docs	docs citations	times ranked	citing authors

94433

123424

#	Article	IF	Citations
1	Analysis of the Transformation of Mechanical Impact Energy to Electric Energy Using Piezoelectric Vibrator. Japanese Journal of Applied Physics, 1996, 35, 3267-3273.	1.5	305
2	A High Power Ultrasonic Linear Motor Using a Longitudinal and Bending Hybrid Bolt-Clamped Langevin Type Transducer. Japanese Journal of Applied Physics, 2001, 40, 3773-3776.	1.5	170
3	Ultrahigh-speed distributed Brillouin reflectometry. Light: Science and Applications, 2016, 5, e16184-e16184.	16.6	166
4	Energy Storage Characteristics of a Piezo-Generator using Impact Induced Vibration. Japanese Journal of Applied Physics, 1997, 36, 3146-3151.	1.5	154
5	An estimation of load characteristics of an ultrasonic motor by measuring transient responses. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1991, 38, 481-485.	3.0	138
6	Experimental study of Brillouin scattering in perfluorinated polymer optical fiber at telecommunication wavelength. Applied Physics Letters, 2010, 97, .	3.3	136
7	An ultrasonic motor using bending vibrations of a short cylinder. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1989, 36, 517-521.	3.0	123
8	The Measurement of High-Power Characteristics for a Piezoelectric Transducer Based on the Electrical Transient Response. Japanese Journal of Applied Physics, 1998, 37, 5322-5325.	1.5	118
9	Characteristics of a hybrid transducer-type ultrasonic motor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1991, 38, 188-193.	3.0	111
10	Potential of Brillouin scattering in polymer optical fiber for strain-insensitive high-accuracy temperature sensing. Optics Letters, 2010, 35, 3985.	3.3	101
11	An analysis of a noncontact ultrasonic motor with an ultrasonically levitated rotor. Ultrasonics, 1997, 35, 459-467.	3.9	90
12	Sensing characteristics of plastic optical fibres measured by optical time-domain reflectometry. Measurement Science and Technology, 2004, 15, 1553-1559.	2.6	83
13	Noncontact ultrasonic transportation of small objects over long distances in air using a bending vibrator and a reflector. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1152-1159.	3.0	80
14	Holding characteristics of planar objects suspended by near-field acoustic levitation. Ultrasonics, 2000, 38, 60-63.	3.9	69
15	Effects of Vibration Stress and Temperature on the Characteristics of Piezoelectric Ceramics under High Vibration Amplitude Levels Measured by Electrical Transient Responses. Japanese Journal of Applied Physics, 1999, 38, 5581-5585.	1.5	66
16	Design of a hybrid transducer type ultrasonic motor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1993, 40, 395-401.	3.0	64
17	Brillouin gain spectrum dependence on large strain in perfluorinated graded-index polymer optical fiber. Optics Express, 2012, 20, 21101.	3.4	64
18	A non-contact linear bearing and actuator via ultrasonic levitation. Sensors and Actuators A: Physical, 2007, 135, 740-747.	4.1	60

#	Article	IF	Citations
19	Distributed Brillouin Sensing With Centimeter-Order Spatial Resolution in Polymer Optical Fibers. Journal of Lightwave Technology, 2014, 32, 3999-4003.	4.6	59
20	Experimental study on depolarized GAWBS spectrum for optomechanical sensing of liquids outside standard fibers. Optics Express, 2017, 25, 2239.	3.4	57
21	Polymer-Based Ultrasonic Motors Utilizing High-Order Vibration Modes. IEEE/ASME Transactions on Mechatronics, 2018, 23, 788-799.	5.8	57
22	Compact, high-speed variable-focus liquid lens using acoustic radiation force. Optics Express, 2010, 18, 25158.	3.4	56
23	Noncontact ultrasonic transportation of small objects in a circular trajectory in air by flexural vibrations of a circular disc. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 1434-1442.	3.0	55
24	Pressure Dependence of Fiber Bragg Grating Inscribed in Perfluorinated Polymer Fiber. IEEE Photonics Technology Letters, 2017, 29, 2167-2170.	2.5	53
25	Trial Construction of a Noncontact Ultrasonic Motor with an Ultrasonically Levitated Rotor. Japanese Journal of Applied Physics, 1996, 35, 3286-3288.	1.5	51
26	A Low-Profile Design for the Noncontact Ultrasonically Levitated Stage. Japanese Journal of Applied Physics, 2005, 44, 4662-4665.	1.5	51
27	A robot finger joint driven by hybrid multi-DOF piezoelectric ultrasonic motor. Sensors and Actuators A: Physical, 2011, 169, 206-210.	4.1	49
28	Distributed polymer optical fiber sensors: a review and outlook. Photonics Research, 2021, 9, 1719.	7.0	47
29	An Analysis of Jumping and Dropping Phenomena of Piezoelectric Transducers using the Electrical Equivalent Circuit Constants at High Vibration Amplitude Levels. Japanese Journal of Applied Physics, 2000, 39, 5623-5628.	1.5	45
30	Resonant Mode Design for Noncontact Ultrasonic Motor with Levitated Rotor. Japanese Journal of Applied Physics, 2005, 44, 4666-4668.	1.5	42
31	A lightweight push-pull acoustic transducer composed of a pair of dielectric elastomer films. Journal of the Acoustical Society of America, 2013, 134, EL432-EL437.	1.1	41
32	Observation of polymer optical fiber fuse. Applied Physics Letters, 2014, 104, 043302.	3.3	41
33	A simple bidirectional linear microactuator for nanopositioning - the "Baltan" microactuator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1160-1168.	3.0	40
34	Ultra-Sensitive Strain and Temperature Sensing Based on Modal Interference in Perfluorinated Polymer Optical Fibers. IEEE Photonics Journal, 2014, 6, 1-7.	2.0	40
35	Support Mechanism for the Ball Rotor in the Three-Degree-of-Freedom Ultrasonic Motor. Japanese Journal of Applied Physics, 2003, 42, 3000-3001.	1.5	39
36	Observation of stimulated Brillouin scattering in polymer optical fiber with pumpâ€"probe technique. Optics Letters, 2011, 36, 2378.	3.3	39

#	ARTICLE	IF	CITATIONS
37	A Multi-Transducer Near Field Acoustic Levitation System for Noncontact Transportation of Large-Sized Planar Objects. Japanese Journal of Applied Physics, 2000, 39, 2982-2985.	1.5	38
38	Brillouin scattering in multi-core optical fibers for sensing applications. Scientific Reports, 2015, 5, 11388.	3.3	38
39	Anisotropy of the highâ€power piezoelectric properties of Pb(Zr,Ti)O₃. Journal of the American Ceramic Society, 2019, 102, 6008-6017.	3.8	38
40	Slope-Assisted Brillouin Optical Correlation-Domain Reflectometry: Proof of Concept. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	37
41	Optimum Operation Conditions of an Ultrasonic Motor Driving Fluid Directly. Japanese Journal of Applied Physics, 1996, 35, 3289-3294.	1.5	36
42	Effects of a Series Capacitor on the Energy Consumption in Piezoelectric Transducers at High Vibration Amplitude Level. Japanese Journal of Applied Physics, 1999, 38, 3327-3330.	1.5	36
43	A piezoelectric linear actuator formed from a multitude of bimorphs. Sensors and Actuators A: Physical, 2004, 109, 242-251.	4.1	36
44	Piezoelectric Motor Utilizing an Alumina/PZT Transducer. IEEE Transactions on Industrial Electronics, 2020, 67, 6762-6772.	7.9	36
45	A Piezoelectric Micromotor Using In-Plane Shearing of PZT Elements. IEEE/ASME Transactions on Mechatronics, 2004, 9, 467-473.	5.8	35
46	Demodulation of Acoustic Signals in Fiber Bragg Grating Ultrasonic Sensors Using Arrayed Waveguide Gratings. Japanese Journal of Applied Physics, 2006, 45, 4577-4579.	1.5	34
47	Highly Sensitive Fiberâ€Optic Intrinsic Electromagnetic Field Sensing. Advanced Photonics Research, 2021, 2, 2000078.	3.6	34
48	Ultrasonic Motor Utilizing Elastic Fin Rotor. Japanese Journal of Applied Physics, 1991, 30, 2289-2291.	1.5	33
49	A Trial Construction of an Ultrasonic Motor with Fluid Coupling. Japanese Journal of Applied Physics, 1990, 29, L160-L161.	1.5	32
50	Wear Properties and Life Prediction of Frictional Materials for Ultrasonic Motors. Japanese Journal of Applied Physics, 1995, 34, 2765-2770.	1.5	32
51	A high reading rate fiber Bragg grating sensor system using a high-speed swept light source based on fiber vibrations. Measurement Science and Technology, 2009, 20, 034021.	2.6	32
52	Wide-range temperature dependences of Brillouin scattering properties in polymer optical fiber. Japanese Journal of Applied Physics, 2014, 53, 042502.	1.5	32
53	Operation of slope-assisted Brillouin optical correlation-domain reflectometry: comparison of system output with actual frequency shift distribution. Optics Express, 2016, 24, 29190.	3.4	32
54	Slope-Assisted Brillouin Optical Correlation-Domain Reflectometry Using Polymer Optical Fibers With High Propagation Loss. Journal of Lightwave Technology, 2017, 35, 2306-2310.	4.6	32

#	Article	IF	Citations
55	An ultrasonically levitated noncontact stage using traveling vibrations on precision ceramic guide rails. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 597-604.	3.0	31
56	Electric power generation using vibration of a polyurea piezoelectric thin film. Applied Acoustics, 2010, 71, 439-445.	3.3	31
57	A single-element tuning fork piezoelectric linear actuator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 179-186.	3.0	30
58	A distributed strain sensor with the memory effect based on the POF OTDR. , 2005, 5855, 807.		30
59	Brillouin Gain Spectrum Characterization in Perfluorinated Graded-Index Polymer Optical Fiber With 62.5-mum Core Diameter. IEEE Photonics Technology Letters, 2011, 23, 1863-1865.	2.5	30
60	Fiber-optic ultrasonic hydrophone using short Fabryâ€“Perot cavity with multilayer reflectors deposited on small stub. Ultrasonics, 2014, 54, 1047-1051.	3.9	30
61	Pressure Sensitivity of a Fiber-Optic Microprobe for High-Frequency Ultrasonic Field. Japanese Journal of Applied Physics, 1999, 38, 3120-3123.	1.5	29
62	A two-dimensional optical fibre microphone array with matrix-style data readout. Measurement Science and Technology, 2001, 12, 859-864.	2.6	29
63	Noncontact Ultrasonic Transport of Liquid Using a Flexural Vibration Plate. Applied Physics Express, 2012, 5, 097301.	2.4	29
64	Ultrasound liquid crystal lens. Applied Physics Letters, 2018, 112, .	3.3	29
65	Analyses of an Ultrasonic Motor Driving Fluid Directly. Japanese Journal of Applied Physics, 1995, 34, 2702-2706.	1.5	28
66	Measurement of Intense Ultrasound Field in Air Using Fiber Optic Probe. Japanese Journal of Applied Physics, 2007, 46, 4555.	1.5	28
67	Brillouin scattering signal in polymer optical fiber enhanced by exploiting pulsed pump with multimode-fiber-assisted coupling technique. Optics Letters, 2013, 38, 1467.	3.3	28
68	Construction of Megatorque Hybrid Transducer Type Ultrasonic Motor. Japanese Journal of Applied Physics, 1996, 35, 5038-5041.	1.5	27
69	Reflectivity and illuminating power compensation for optical fibre vibrometer. Measurement Science and Technology, 2004, 15, 1773-1778.	2.6	27
70	Non-contact piezoelectric rotary motor modulated by giant electrorheological fluid. Sensors and Actuators A: Physical, 2014, 217, 124-128.	4.1	27
71	Ultrasonic motors with polymer-based vibrators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 2169-2178.	3.0	27
72	High-speed noncontact ultrasonic transport of small objects using acoustic traveling wave field. Acoustical Science and Technology, 2010, 31, 420-422.	0.5	26

#	Article	IF	Citations
73	Strain, temperature, moisture, and transverse force sensing using fused polymer optical fibers. Optics Express, 2018, 26, 12939.	3.4	26
74	A Rotary Ultrasonic Motor Operating in Torsional/Bending Modes With High Torque Density and High Power Density. IEEE Transactions on Industrial Electronics, 2021, 68, 6109-6120.	7.9	26
75	Stability analysis of an acoustically levitated disk. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 117-127.	3.0	25
76	Electrode design of multilayered piezoelectric transducers for longitudinal-bending ultrasonic actuators. Acoustical Science and Technology, 2011, 32, 100-108.	0.5	25
77	Ultrasonic variable-focus optical lens using viscoelastic material. Applied Physics Letters, 2012, 100, .	3.3	25
78	Improvement of the longitudinal vibration system for the hybrid transducer ultrasonic motor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 216-221.	3.0	24
79	Optical correlation-domain reflectometry without optical frequency shifter. Applied Physics Express, 2016, 9, 032702.	2.4	24
80	A new ultrasonic motor using electro-rheological fluid and torsional vibration. Ultrasonics, 1996, 34, 261-264.	3.9	23
81	Noncontact Self-Running Ultrasonically Levitated Two-Dimensional Stage Using Flexural Standing Waves. Japanese Journal of Applied Physics, 2009, 48, 07GM07.	1.5	23
82	Efficiency improvement of hybrid transducer-type ultrasonic motor using lubricant. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 786-794.	3.0	23
83	Brillouin frequency shift hopping in polymer optical fiber. Applied Physics Letters, 2014, 105, .	3.3	23
84	Error evaluation of the structural intensity measured with a scanning laser Doppler vibrometer and a kâ€space signal processing. Journal of the Acoustical Society of America, 1996, 99, 2913-2921.	1.1	22
85	A stator for a self-running, ultrasonically-levitated sliding stage. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2337-2343.	3.0	22
86	Three-dimensional variable-focus liquid lens using acoustic radiation force. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2720-2726.	3.0	22
87	Propagation mechanism of polymer optical fiber fuse. Scientific Reports, 2015, 4, 4800.	3.3	22
88	Design and characterization of a curvature sensor using fused polymer optical fibers. Optics Letters, 2018, 43, 2539.	3.3	22
89	Efficiency Improvement of an Ultrasonic Motor Driven with Rectangular Waveform. Japanese Journal of Applied Physics, 1996, 35, 3281-3285.	1.5	21
90	An Ultrasonic Suction Pump with No Physically Moving Parts. Japanese Journal of Applied Physics, 2004, 43, 2864-2868.	1.5	21

#	Article	IF	Citations
91	Brillouin Scattering in Polymer Optical Fibers: Fundamental Properties and Potential Use in Sensors. Polymers, 2011, 3, 886-898.	4.5	21
92	Measurement of large-strain dependence of optical propagation loss in perfluorinated polymer fibers for use in seismic diagnosis. IEICE Electronics Express, 2014, 11, 20140707-20140707.	0.8	21
93	Structural parameter study on polymer-based ultrasonic motor. Smart Materials and Structures, 2017, 26, 115022.	3.5	21
94	Evaluation methods for materials for power ultrasonic applications. Japanese Journal of Applied Physics, 2020, 59, SK0801.	1.5	21
95	Three-Axis Acceleration Sensor Using Polyurea Films. Japanese Journal of Applied Physics, 2008, 47, 4044.	1.5	20
96	Core Alignment of Butt Coupling Between Single-Mode and Multimode Optical Fibers by Monitoring Brillouin Scattering Signal. Journal of Lightwave Technology, 2011, 29, 2616-2620.	4.6	20
97	Control of liquid crystal molecular orientation using ultrasound vibration. Applied Physics Letters, 2016, 108, .	3.3	20
98	Simplified optical correlation-domain reflectometry without reference path. Applied Optics, 2016, 55, 3925.	2.1	20
99	Characteristics of Ultrasonic Motors Driven in a Vacuum. Japanese Journal of Applied Physics, 1998, 37, 2956-2959.	1.5	19
100	An ultrasonic linear motor using ridge-mode traveling waves. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1735-1742.	3.0	19
101	Multilayered Transducers Using Polyurea Film. Japanese Journal of Applied Physics, 2007, 46, 4466.	1.5	19
102	Polyurea Thin Film Ultrasonic Transducers for Nondestructive Testing and Medical Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2165-2174.	3.0	19
103	A self-running standing wave-type bidirectional slider for the ultrasonically levitated thin linear stage. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1823-1830.	3.0	19
104	Air Flow in a Small Gap between a Bending Vibrator and a Reflector. Japanese Journal of Applied Physics, 2008, 47, 4276.	1.5	19
105	Drastic sensitivity enhancement of temperature sensing based on multimodal interference in polymer optical fibers. Applied Physics Express, 2015, 8, 072502.	2.4	19
106	Tribological performance of ceramics in lubricated ultrasonic motors. Wear, 2016, 352-353, 188-195.	3.1	19
107	Multimodal Interference in Perfluorinated Polymer Optical Fibers: Application to Ultrasensitive Strain and Temperature Sensing. IEICE Transactions on Electronics, 2018, E101.C, 602-610.	0.6	19
108	Ultrasonic stepping motor using spatially shifted standing vibrations. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1997, 44, 823-828.	3.0	18

#	Article	IF	Citations
109	A torsional transducer through in-plane shearing of paired planar piezoelectric elements. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 871-878.	3.0	18
110	Refractive Index Sensor for Liquids and Solids Using Dielectric Multilayer Films Deposited on Optical Fiber End Surface. IEEE Photonics Technology Letters, 2011, 23, 1472-1474.	2.5	18
111	Measurement of Acoustic Velocity in Poly(methyl methacrylate)-Based Polymer Optical Fiber for Brillouin Frequency Shift Estimation. Applied Physics Express, 2011, 4, 102501.	2.4	18
112	Single-end-access strain and temperature sensing based on multimodal interference in polymer optical fibers. IEICE Electronics Express, 2017, 14, 20161239-20161239.	0.8	18
113	Modeling and Performance Evaluation of an Ultrasonic Suction Pump. Japanese Journal of Applied Physics, 2008, 47, 4248-4252.	1.5	17
114	An ultrasonic air pump using an acoustic traveling wave along a small air gap. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 253-261.	3.0	17
115	Discriminative strain and temperature measurement using Brillouin scattering and fluorescence in erbium-doped optical fiber. Optics Express, 2014, 22, 24706.	3.4	17
116	Strain and temperature sensing based on multimode interference in partially chlorinated polymer optical fibers. IEICE Electronics Express, 2015, 12, 20141173-20141173.	0.8	17
117	Molecular Orientation in a Variable-Focus Liquid Crystal Lens Induced by Ultrasound Vibration. Scientific Reports, 2020, 10, 6168.	3.3	17
118	Waveforms of the Vibration Velocity and the Current of a Piezoelectric Transducer in the Transient State. Japanese Journal of Applied Physics, 2001, 40, 5735-5739.	1.5	16
119	Characteristics of Ultrasonic Suction Pump Without Moving Parts. Japanese Journal of Applied Physics, 2005, 44, 4658-4661.	1.5	16
120	Improvements in Controllability of Ultrasonic Linear Motors by Longitudinal-Bending Multilayered Transducers with Independent Electrodes. Japanese Journal of Applied Physics, 2011, 50, 07HE25.	1.5	16
121	Demonstration of Noncontact Ultrasonic Mixing of Droplets. Japanese Journal of Applied Physics, 2013, 52, 07HE02.	1.5	16
122	Design of a junction for a noncontact ultrasonic transportation system. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1024-1032.	3.0	16
123	Proposal of external modulation scheme for fiber-optic correlation-domain distributed sensing. Applied Physics Express, 2019, 12, 022005.	2.4	16
124	A full-wave analysis of offset reflector antennas with polarization grids. IEEE Transactions on Antennas and Propagation, 1988, 36, 164-170.	5.1	15
125	A noncontact ultrasonic motor with the rotor levitated by axial acoustic viscous force. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi) Tj ETQq1 1 0.784314 rgBT /Overl	0.1	15
126	Design of Multi-Degree-of-Freedom Ultrasonic Micromotors. Japanese Journal of Applied Physics, 2009, 48, 07GM06.	1.5	15

#	Article	IF	Citations
127	Multiple-frequency ultrasonic imaging by transmitting pulsed waves of two frequencies. Journal of Medical Ultrasonics (2001), 2009, 36, 53-60.	1.3	15
128	Vibration of a single microcapsule with a hard plastic shell in an acoustic standing wave field. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 737-743.	3.0	15
129	L-BOFDA: a new sensor technique for distributed Brillouin sensing. , 2013, , .		15
130	Dynamic analysis of ultrasonically levitated droplet with moving particle semi-implicit and distributed point source method. Japanese Journal of Applied Physics, 2015, 54, 07HE04.	1.5	15
131	Polymer optical fiber tapering without the use of external heat source and its application to refractive index sensing. Applied Physics Express, 2015, 8, 072501.	2.4	15
132	Traveling wave ultrasonic motor using polymer-based vibrator. Japanese Journal of Applied Physics, 2016, 55, 018001.	1.5	15
133	Dynamic mechanical analysis on fused polymer optical fibers: towards sensor applications. Optics Letters, 2018, 43, 1754.	3.3	15
134	Liquid lens using acoustic radiation force. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 596-602.	3.0	14
135	Dependences of Brillouin frequency shift on strain and temperature in optical fibers doped with rare-earth ions. Journal of Applied Physics, 2012, 112, 043109.	2.5	14
136	Observation of Brillouin gain spectrum in tapered polymer optical fiber. Journal of Applied Physics, 2014, 115, 173108.	2.5	14
137	Simplified Brillouin Optical Correlation-Domain Reflectometry Using Polymer Optical Fiber. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	14
138	Measurement of mechanical quality factors of polymers in flexural vibration for high-power ultrasonic application. Ultrasonics, 2016, 69, 74-82.	3.9	14
139	Detection of 2-mm-long strained section in silica fiber using slope-assisted Brillouin optical correlation-domain reflectometry. Japanese Journal of Applied Physics, 2018, 57, 020303.	1.5	14
140	First demonstration of Brillouin optical correlation-domain reflectometry based on external modulation scheme. Japanese Journal of Applied Physics, 2019, 58, 068004.	1.5	14
141	Potential ability of ultrasonic motors: A discussion focused on the friction control mechanism. Electronics and Communications in Japan, 1998, 81, 57-68.	0.2	13
142	A miniaturization of the multi-degree-of-freedom ultrasonic actuator using a small cylinder fixed on a substrate. Ultrasonics, 2006, 44, e617-e620.	3.9	13
143	Plate-shaped non-contact ultrasonic transporter using flexural vibration. Ultrasonics, 2014, 54, 455-460.	3.9	13
144	Movable optical lens array using ultrasonic vibration. Sensors and Actuators A: Physical, 2016, 237, 35-40.	4.1	13

#	Article	IF	Citations
145	Recent Advances in Brillouin Optical Correlation-Domain Reflectometry. Applied Sciences (Switzerland), 2018, 8, 1845.	2.5	13
146	Numerical analysis of the property of a hybrid transducer type ultrasonic motor. , 0, , .		12
147	A Low-Wear Driving Method of Ultrasonic Motors. Japanese Journal of Applied Physics, 1999, 38, 3338-3341.	1.5	12
148	Characteristics of Underwater Near-Field Acoustic Radiation Force Acting on a Planar Object. Japanese Journal of Applied Physics, 1999, 38, L1284-L1285.	1.5	12
149	Measuring vibration characteristics at large amplitude region of materials for high power ultrasonic vibration system. Ultrasonics, 2000, 38, 122-126.	3.9	12
150	Holding Mechanism Using a Resonance System for a High-Power Ultrasonic Linear Motor. Japanese Journal of Applied Physics, 2002, 41, 3261-3266.	1.5	12
151	Array Configurations for Higher Power Generation in Piezoelectric Energy Harvesting. Japanese Journal of Applied Physics, 2010, 49, 07HD04.	1.5	12
152	Ultrasonic optical lens array with variable focal length and pitch. Optics Letters, 2012, 37, 5256.	3.3	12
153	Single-end-access distributed strain sensing with wide dynamic range using higher-speed Brillouin optical correlation-domain reflectometry. Japanese Journal of Applied Physics, 2017, 56, 072501.	1.5	12
154	Strain dependence of perfluorinated polymer optical fiber Bragg grating measured at different wavelengths. Japanese Journal of Applied Physics, 2018, 57, 038002.	1.5	12
155	Potential of Discriminative Sensing of Strain and Temperature Using Perfluorinated Polymer FBG. IEEE Sensors Journal, 2019, 19, 4458-4462.	4.7	12
156	A Linear Piezoelectric Actuator Using â€œA-Shapedâ€•Structure. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 1382-1391.	3.0	12
157	Numerical Analysis of Ultrasonic Beam of Variable-Line-Focus-Beam Film Transducer. Japanese Journal of Applied Physics, 2007, 46, 4486.	1.5	11
158	Dependence of Brillouin Frequency Shift on Temperature and Strain in Poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (metha Physics Express, 2012, 5, 032502.	2.4	11
159	Characterization of Stimulated Brillouin Scattering in Polymer Optical Fibers Based on Lock-in-Free Pumpâ€"Probe Technique. Journal of Lightwave Technology, 2013, 31, 3162-3166.	4.6	11
160	Brillouin gain spectrum dependences on temperature and strain in erbium-doped optical fibers with different erbium concentrations. Applied Physics Letters, 2013, 102, 191906.	3.3	11
161	Cross Effect of Strain and Temperature on Brillouin Frequency Shift in Polymer Optical Fibers. Journal of Lightwave Technology, 2017, 35, 2481-2486.	4.6	11
162	Ultrasonic motors with poly phenylene sulfide/alumina/PZT triple-layered vibrators. Sensors and Actuators A: Physical, 2018, 284, 158-167.	4.1	11

#	Article	IF	Citations
163	Wide-Dynamic-Range Brillouin Optical Correlation-Domain Reflectometry With 20-kHz Sampling Rate. IEEE Sensors Journal, 2022, 22, 6644-6650.	4.7	11
164	Finite Element Analysis of Acoustic Streaming in an Ultrasonic Air Pump. Japanese Journal of Applied Physics, 2010, 49, 07HE15.	1.5	10
165	High-Speed Focus Scanning by an Acoustic Variable-Focus Liquid Lens. Japanese Journal of Applied Physics, 2011, 50, 07HE26.	1.5	10
166	Characterization of Brillouin Gain Spectra in Polymer Optical Fibers Fabricated by Different Manufacturers at 1.32 and 1.55 $mu{m m}$. IEEE Photonics Technology Letters, 2012, 24, 1496-1498.	2.5	10
167	Spiral Propagation of Polymer Optical Fiber Fuse Accompanied by Spontaneous Burst and Its Real-Time Monitoring Using Brillouin Scattering. IEEE Photonics Journal, 2014, 6, 1-7.	2.0	10
168	Simplified Configuration of Brillouin Optical Correlation-Domain Reflectometry. IEEE Photonics Journal, 2014, 6, 1-7.	2.0	10
169	Can lubricant enhance the torque of ultrasonic motors? An experimental investigation. Applied Physics Letters, 2014, 105, .	3.3	10
170	Thermal Memory Effect in Polymer Optical Fibers. IEEE Photonics Technology Letters, 2015, 27, 1394-1397.	2.5	10
171	Observation of Backward Guided-Acoustic-Wave Brillouin Scattering in Optical Fibers Using Pumpâ€"Probe Technique. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	10
172	Temperature sensing based on multimodal interference in polymer optical fibers: Room-temperature sensitivity enhancement by annealing. Japanese Journal of Applied Physics, 2017, 56, 078002.	1.5	10
173	Measurement sensitivity dependencies on incident power and spatial resolution in slope-assisted Brillouin optical correlation-domain reflectometry. Sensors and Actuators A: Physical, 2017, 268, 68-71.	4.1	10
174	A traveling-wave ultrasonic motor utilizing a ring-shaped alumina/PZT vibrator. Smart Materials and Structures, 2019, 28, 125017.	3.5	10
175	Simplified optical correlation-domain reflectometry employing proximal reflection point. Japanese Journal of Applied Physics, 2016, 55, 128003.	1.5	10
176	Pilot demonstration of correlation-domain LiDAR for high-speed vibration detection. APL Photonics, 2021, 6, .	5.7	10
177	Numerical analysis of the symmetric hybrid transducer ultrasonic motor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 1625-1631.	3.0	9
178	Memory effect of POF distributed strain sensor. , 2004, , .		9
179	A miniature ultransonic pump using a bending disk transducer and a gap. Ultrasonics, 2006, 44, e575-e579.	3.9	9
180	Improvement in the Flow Rate of a Miniature Ultrasonic Suction Pump. Japanese Journal of Applied Physics, 2007, 46, 4931.	1.5	9

#	Article	IF	Citations
181	Broad and Flat Brillouin Gain Spectrum in Optical Fiber Obtained by Modulating Driving Current of Laser Diode. Japanese Journal of Applied Physics, 2013, 52, 058003.	1.5	9
182	Finite-element analysis of acoustic streaming generated between a bending transducer and a reflector through second-order approximated forces. Acoustical Science and Technology, 2013, 34, 322-331.	0.5	9
183	Simplified optical correlation-domain reflectometry using polymer fiber. IEICE Electronics Express, 2015, 12, 20150824-20150824.	0.8	9
184	Hydrostatic pressure dependence of Brillouin frequency shift in polymer optical fibers. Applied Physics Express, 2018, 11, 012502.	2.4	9
185	Ultrasonic motor performance influenced by lubricant properties. Sensors and Actuators A: Physical, 2018, 282, 183-191.	4.1	9
186	Measurement range enlargement in Brillouin optical correlation-domain reflectometry based on chirp modulation scheme. Applied Physics Express, 2020, 13, 082003.	2.4	9
187	Noise suppression technique for distributed Brillouin sensing with polymer optical fibers. Optics Letters, 2019, 44, 2097.	3.3	9
188	Pilot demonstration of correlation-domain distributed temperature sensing using forward Brillouin scattering. Japanese Journal of Applied Physics, 2020, 59, 088002.	1.5	9
189	A load cell using a fiber Bragg grating with inherent mechanical temperature compensation. Structural Control and Health Monitoring, 2005, 12, 345-355.	4.0	8
190	A traveling-wave, modified ring linear piezoelectric microactuator with enclosed piezoelectric elements - the "scream" actuator. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1343-1353.	3.0	8
191	Experimental Study on an Ultrasonic Purification Apparatus for Civil Engineering Use. Japanese Journal of Applied Physics, 2008, 47, 4296-4299.	1.5	8
192	Array configurations for higher power generation in piezoelectric energy harvesting. , 2009, , .		8
193	Fiber-optic ultrasonic probe based on refractive-index modulation in water. Proceedings of SPIE, 2011, , .	0.8	8
194	Measurement of the Resonant Characteristics of a Single Bubble Vibration by Using a Laser Doppler Vibrometer. Japanese Journal of Applied Physics, 2011, 50, 07HE04.	1.5	8
195	Development of Multiple-Frequency Ultrasonic Imaging System Using Multiple Resonance Piezoelectric Transducer. Japanese Journal of Applied Physics, 2012, 51, 07GF02.	1.5	8
196	Alternative Implementation of Simplified Brillouin Optical Correlation-Domain Reflectometry. IEEE Photonics Journal, 2014, 6, 1-8.	2.0	8
197	Fiber-Optic Interferometry Using Narrowband Light Source and Electrical Spectrum Analyzer: Influence on Brillouin Measurement. Journal of Lightwave Technology, 2014, 32, 4734-4740.	4.6	8
198	Acoustic streaming in an ultrasonic air pump with three-dimensional finite-difference time-domain analysis and comparison to the measurement. Ultrasonics, 2014, 54, 2119-2125.	3.9	8

#	Article	IF	Citations
199	Ejection of small droplet from microplate using focused ultrasound. Japanese Journal of Applied Physics, 2017, 56, 087202.	1.5	8
200	Phase-detected Brillouin optical correlation-domain reflectometry. Optical Review, 2018, 25, 473-485.	2.0	8
201	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
202	Bending-loss-independent operation of slope-assisted Brillouin optical correlation-domain reflectometry. Scientific Reports, 2018, 8, 7844.	3.3	8
203	Vibration characteristics of polymer-based Langevin transducers. Smart Materials and Structures, 2018, 27, 095013.	3.5	8
204	Trade-off relation between strain dynamic range and spatial resolution in slope-assisted Brillouin optical correlation-domain reflectometry. Measurement Science and Technology, 2019, 30, 075204.	2.6	8
205	Potential of Mechanically Induced Cascaded Long-Period Grating Structure for Reflectometric Pressure, Strain, and Temperature Sensing. IEEE Sensors Journal, 2020, 20, 10539-10546.	4.7	8
206	Spatial Resolution Enhancement of Brillouin Optical Correlation-Domain Reflectometry Using Convolutional Neural Network: Proof of Concept. IEEE Access, 2021, 9, 124701-124710.	4.2	8
207	Enhancement of Brillouin Scattering Signal in Optical Fibers by Use of Pulsed Pump Light. Applied Physics Express, 2012, 5, 032501.	2.4	8
208	Sensing Applications of Polymer Optical Fiber Fuse. Advanced Photonics Research, 2022, 3, 2100210.	3.6	8
209	Optical fiber coupler array for multi-point sound field measurements. Optical Review, 1997, 4, A65.	2.0	7
210	Vibration stress and temperature dependence of piezoelectric resonators with lead-zirconate-titanate ceramics. Electronics and Communications in Japan, 2000, 83, 1-7.	0.2	7
211	Self-Generation Door Alarm System using Impact Induced Piezoelectric Vibration. IEEJ Transactions on Sensors and Micromachines, 2003, 123, 534-540.	0.1	7
212	Development of a hand-held sensor probe for detection of sound components radiated from a specific device using surface intensity measurements. Applied Acoustics, 2004, 65, 719-735.	3.3	7
213	High-Frequency Optical Scanner Based on Bending Vibration of Optical Fiber. Japanese Journal of Applied Physics, 2006, 45, 4773-4779.	1.5	7
214	Traveling wave type ultrasonic linear motor using twin bending bars. Physics Procedia, 2010, 3, 1053-1058.	1.2	7
215	Equivalent Circuit Analysis and Design of Multilayered Polyurea Ultrasonic Transducers. Japanese Journal of Applied Physics, 2010, 49, 07HD05.	1.5	7
216	Behavior of Ultrasonically Levitated Object above Reflector Hole. Japanese Journal of Applied Physics, 2013, 52, 100201.	1.5	7

#	Article	IF	Citations
217	RGB representation of two-dimensional multi-spectral acoustic data for object surface profile imaging. Measurement Science and Technology, 2013, 24, 105401.	2.6	7
218	Suppression of ghost correlation peak in Brillouin optical correlation-domain reflectometry. Applied Physics Express, 2014, 7, 112501.	2.4	7
219	Periodic pattern of liquid crystal molecular orientation induced by ultrasound vibrations. Applied Physics Letters, 2017, 111, .	3.3	7
220	Displacement sensing based on modal interference in polymer optical fibers with partially applied strain. Japanese Journal of Applied Physics, 2018, 57, 058002.	1.5	7
221	Enhancement in mechanical quality factors of poly phenylene sulfide under high-amplitude ultrasonic vibration through thermal annealing. Ultrasonics, 2019, 91, 52-61.	3.9	7
222	Twist dependencies of strain and temperature sensitivities of perfluorinated graded-index polymer optical fiber Bragg gratings. Applied Physics Express, 2019, 12, 082007.	2.4	7
223	Preparation of chloroaluminum phthalocyanine nanoparticles by laser ablation in liquid and their photoacoustic imaging. Journal of Laser Applications, 2020, 32, .	1.7	7
224	Strain and temperature dependencies of multimodal interference spectra in hetero-core-fiber structures. Japanese Journal of Applied Physics, 2020, 59, 058002.	1.5	7
225	Measurement of the Resonant Characteristics of a Single Bubble Vibration by Using a Laser Doppler Vibrometer. Japanese Journal of Applied Physics, 2011, 50, 07HE04.	1.5	7
226	Improvements in Controllability of Ultrasonic Linear Motors by Longitudinal-Bending Multilayered Transducers with Independent Electrodes. Japanese Journal of Applied Physics, 2011, 50, 07HE25.	1.5	7
227	High-Speed Focus Scanning by an Acoustic Variable-Focus Liquid Lens. Japanese Journal of Applied Physics, 2011, 50, 07HE26.	1.5	7
228	Development of Multiple-Frequency Ultrasonic Imaging System Using Multiple Resonance Piezoelectric Transducer. Japanese Journal of Applied Physics, 2012, 51, 07GF02.	1.5	7
229	Acoustic Waveguides for Actuators. Japanese Journal of Applied Physics, 2004, 43, 3040-3044.	1.5	6
230	A design of ultrasonic compaction tools for metal powder magnetic core of motors. , 2008, , .		6
231	Electric power generation using a vibration of a polyurea piezoelectric thin film. , 2008, , .		6
232	A POF-based distributed strain sensor for detecting deformation of wooden structures. Proceedings of SPIE, 2008, , .	0.8	6
233	Potential Applicability of Brillouin Scattering in Partially Chlorinated Polymer Optical Fibers to High-Precision Temperature Sensing. Applied Physics Express, 2013, 6, 052501.	2.4	6
234	Effect of holed reflector on acoustic radiation force in noncontact ultrasonic dispensing of small droplets. Japanese Journal of Applied Physics, 2016, 55, 067302.	1.5	6

#	Article	IF	Citations
235	Recent progress in slope-assisted Brillouin optical correlation-domain reflectometry. Optical Fiber Technology, 2020, 59, 102312.	2.7	6
236	Effect of laser temperature control on Brillouin optical correlation-domain reflectometry. Applied Physics Express, 2020, 13, 052001.	2.4	6
237	Brillouin characterization of slimmed polymer optical fibers for strain sensing with extremely wide dynamic range. Optics Express, 2018, 26, 28030.	3.4	6
238	Ultrasonic motor utilizing elastic fin rotor. , 0, , .		5
239	Simulation and experimental study on elastic fin ultrasonic motor. , 0, , .		5
240	Numerical analysis of the hybrid transducer ultrasonic motor: comparison of characteristics calculated by transmission-line and lumped-element models. Ultrasonics, 2002, 39, 559-565.	3.9	5
241	An interrogator for fibre Bragg grating sensors using an ultrasonically induced long-period optical fibre grating. Measurement Science and Technology, 2006, 17, 1046-1051.	2.6	5
242	Synthesis of Rejection Band Profile in Ultrasonically Induced Long-Period Optical Fiber Gratings. Japanese Journal of Applied Physics, 2006, 45, 4596-4600.	1.5	5
243	Acoustic and Acousto-Optic Characteristics of Silicon Nanofoam. Japanese Journal of Applied Physics, 2009, 48, 07GE01.	1.5	5
244	Measurement of Surface Acoustic Wave Velocity Using a Variable-Line-Focus Polyurea Thin-Film Ultrasonic Transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1761-1768.	3.0	5
245	Miniaturization of the traveling wave ultrasonic linear motor using series connection of bimorph transducers. , 2011, , .		5
246	Simple coupling method for enhancing Brillouin scattering signal in polymer optical fibres. Electronics Letters, 2012, 48, 1300.	1.0	5
247	Improved technique for etching overcladding layer of perfluorinated polymer optical fibre by chloroform and water. Electronics Letters, 2013, 49, 1630-1632.	1.0	5
248	Numerical simulation of compressible fluid flow in an ultrasonic suction pump. Ultrasonics, 2016, 70, 191-198.	3.9	5
249	Lorentzian demodulation algorithm for multimode polymer optical fiber Bragg gratings. Japanese Journal of Applied Physics, 2019, 58, 028003.	1.5	5
250	Brillouin optical correlation-domain reflectometry based on arbitrary waveform modulation: a theoretical study. Optics Express, 2021, 29, 13794.	3.4	5
251	Compact test setup for sensitivity evaluation of photoacoustic contrast agent. Acoustical Science and Technology, 2018, 39, 259-262.	0.5	5
252	Characterization of cascaded forward Brillouin scattering seeded by backward stimulated Brillouin scattering in optical fibers. IEICE Electronics Express, 2020, 17, 20200139-20200139.	0.8	5

#	Article	IF	Citations
253	Positioning characteristics of ultrasonic rotary actuator with two mode operation. , 0, , .		4
254	Leveling Viscous Fluids Using Ultrasonic Waves. Japanese Journal of Applied Physics, 2004, 43, 2857-2861.	1.5	4
255	A high reading rate FBG sensor system using a high-speed swept light source based on fiber vibrations. , 2008, , .		4
256	High-speed imaging with endoscopic optical coherence tomography using bending vibration of optical fiber. Proceedings of SPIE, 2009, , .	0.8	4
257	Endoscopic optical coherence elastography using acoustic radiation force and a vibrating fiber. , 2012, , .		4
258	An ultrasonic motor using thrust bearing for friction drive with lubricant. , 2013, , .		4
259	Object Characterization Based on Multispectral Acoustic Imaging. Japanese Journal of Applied Physics, 2013, 52, 127301.	1.5	4
260	Fast Flaw Detection in Polymer Optical Fibers with Infrared Thermometer. Applied Physics Express, 2013, 6, 076601.	2.4	4
261	Mesh-free distributed point source method for modeling viscous fluid motion between disks vibrating at ultrasonic frequency. Journal of the Acoustical Society of America, 2014, 136, 466-474.	1.1	4
262	Refractive index sensing using V-shaped polymer optical fibers. Japanese Journal of Applied Physics, 2015, 54, 118001.	1.5	4
263	Linear array transducer for high-power airborne ultrasound using flextensional structure. Japanese Journal of Applied Physics, 2015, 54, 07HE16.	1.5	4
264	Polarization scrambling in Brillouin optical correlation-domain reflectometry using polymer fibers. Applied Physics Express, 2015, 8, 062501.	2.4	4
265	100-MHz ultrasonic linear array transducers based on polyurea-film. Acoustical Science and Technology, 2015, 36, 139-148.	0.5	4
266	Fabrication of an optical lens array using ultraviolet light and ultrasonication. Ultrasonics, 2015, 58, 22-26.	3.9	4
267	Temperature dependence of Brillouin frequency shift in polymers controlled by plasticization effect. Journal of Applied Physics, 2015, 117, .	2.5	4
268	Poly-Phenylene-Sulfide Wedge Transducer for Exciting Surface Acoustic Waves for Removing Droplets on a Glass Plate. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 3378-3385.	3.0	4
269	Error compensation in Brillouin optical correlation-domain reflectometry by combining bidirectionally measured frequency shift distributions. Applied Physics Express, 2021, 14, 052006.	2.4	4
270	Direct Visualization of High-Intensity Focused Ultrasonic Field Using Light-Emitting Diodes and Piezoelectric Elements. Acoustical Imaging, 2008, , 309-316.	0.2	4

#	Article	IF	Citations
271	Measuring the structural intensity by sensing the in-plane vibration.. Journal of the Acoustical Society of Japan (E), 1997, 18, 201-203.	0.1	4
272	Dumbbell-Shaped Small-Sized Hybrid Ultrasonic Motor. Japanese Journal of Applied Physics, 1990, 29, 191.	1.5	4
273	Characterization of modal interference in multi-core polymer optical fibers and its application to temperature sensing. Applied Physics Express, 2022, 15, 072002.	2.4	4
274	A POF-based distributed strain sensor with intrinsic memory effect. , 2007, , .		3
275	A design of a miniature ultrasonic pump using a bending disk transducer. Journal of Electroceramics, 2008, 20, 145-151.	2.0	3
276	A self-running ultrasonically levitated 2D stage using flexural vibrating plates. Physics Procedia, 2010, 3, 1047-1052.	1.2	3
277	Ejection of small objects in a noncontact ultrasonic transporter. , 2012, , .		3
278	Ultrasound bubble filter using the flexural vibration of a cylinder for an extracorporeal circulation circuit. Sensors and Actuators A: Physical, 2013, 199, 202-208.	4.1	3
279	Estimation of absolute sound pressure in a small-sized sonochemical reactor. Ultrasonics Sonochemistry, 2013, 20, 468-471.	8.2	3
280	Destruction of polylactic acid microcapsules under ultrasound irradiation. Applied Acoustics, 2014, 78, 89-91.	3.3	3
281	Airborne ultrasonic transducer using polymer-based elastomer with high output-to-weight ratio. Japanese Journal of Applied Physics, 2015, 54, 087201.	1.5	3
282	Observation of Brillouin gain spectrum in optical fibers in telecommunication band: Effect of pump wavelength. IEICE Electronics Express, 2016, 13, 20151066-20151066.	0.8	3
283	Measurement of sound pressure and temperature in tissue-mimicking material using an optical fiber Bragg grating sensor. Journal of Medical Ultrasonics (2001), 2016, 43, 473-479.	1.3	3
284	Analysis of ultrasonically rotating droplet using moving particle semi-implicit and distributed point source methods. Japanese Journal of Applied Physics, 2016, 55, 07KE06.	1.5	3
285	Observation of multimodal interference in millimeter-long polymer optical fibers. IEICE Electronics Express, 2019, 16, 20190135-20190135.	0.8	3
286	Enhanced stability and sensitivity of slope-assisted Brillouin optical correlation-domain reflectometry using polarization-maintaining fibers. OSA Continuum, 2019, 2, 874.	1.8	3
287	Pilot demonstration of refractive index sensing using polymer optical fiber crushed with slotted screwdriver. IEICE Electronics Express, 2017, 14, 20170962-20170962.	0.8	3
288	Acoustic Sensors. IEEJ Transactions on Sensors and Micromachines, 2002, 122, 187-192.	0.1	3

#	Article	IF	Citations
289	Super-simplified optical correlation-domain reflectometry. Japanese Journal of Applied Physics, 2022, 61, 078005.	1.5	3
290	Ultrasonic Transducer Array for Structural Intensity Measurements. Japanese Journal of Applied Physics, 1996, 35, 3080-3083.	1.5	2
291	Electrical series connection drive for several hybrid-transducer ultrasonic motors. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi) Tj ETQq1 1 0.784314 rgBT /Overlock	0.1	2
292	Finite Element Method Aided Power Flow Mapping of an Ultrasonic Vibration Tool. Japanese Journal of Applied Physics, 2000, 39, 2995-2998.	1.5	2
293	Measuring the optical path length of a plastic optical fibre using the sing-around method and its sensor applications. Journal of Optics, 2001, 3, L17-L19.	1.5	2
294	8F-5 A Visualization Tool for High Intensity Focused Ultrasonic Field Using LEDs and Piezo-Elements. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	2
295	An FBG microphone array system with signal demodulator using AWG. , 2007, 6770, 47.		2
296	Noncontact ultrasonic transportation of droplet using an acoustic waveguide. , 2012, , .		2
297	Non-contact transportation system of small objects using Ultrasonic Waveguides. IOP Conference Series: Materials Science and Engineering, 2012, 42, 012014.	0.6	2
298	Enhancement of Brillouin Scattering Signal in Perfluorinated Graded-Index Polymer Optical Fibers. Applied Sciences (Switzerland), 2012, 2, 46-60.	2.5	2
299	Thickness design, fabrication, and evaluation of 100-MHz polyurea ultrasonic transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 2175-2188.	3.0	2
300	Observation of stimulated Brillouin scattering in silica gradedâ€index multimode optical fibre based on pumpâ€probe technique. Electronics Letters, 2013, 49, 366-367.	1.0	2
301	Ultrasonic motors with polymer vibrator. , 2014, , .		2
302	Dependence of Brillouin frequency shift on water absorption ratio in polymer optical fibers. Journal of Applied Physics, 2016, 119, 223102.	2.5	2
303	Refractive index sensing using ultrasonically crushed polymer optical fibers. Applied Physics Express, 2017, 10, 012201.	2.4	2
304	Long-term stability enhancement of Brillouin measurement in polymer optical fibers using amorphous fluoropolymer. Japanese Journal of Applied Physics, 2018, 57, 018001.	1.5	2
305	Fiber-optic distributed measurement of polarization beat length using slope-assisted Brillouin optical correlation-domain reflectometry. Optical Review, 2020, 27, 542-547.	2.0	2
306	Selection of laser pulse width for efficient generation of photoacoustic signals in liquid-filled thin capillary embedded in soft material. AIP Advances, 2021, 11, .	1.3	2

#	Article	IF	Citations
307	Density dependence of acoustic characteristics of silica nanofoam. Acoustical Science and Technology, 2011, 32, 132-136.	0.5	2
308	Deformation measurement of liquid-filled elastic tube embedded in soft material using optimal pulse width method under photoacoustic excitation. IEICE Electronics Express, 2022, 19, 20210542-20210542.	0.8	2
309	Characteristics of megahertz resonant platform for evaluating sensitivity of photoacoustic contrast agent. Engineering Research Express, 2021, 3, 045057.	1.6	2
310	An interrogator for FBG sensors using an ultrasonically induced long-period optical fiber grating. , 2005, , .		1
311	A 100-MHz 32-array transducer using lithographically-made electrodes and vapor-deposited polyurea film. , 2008, , .		1
312	A wavelength swept laser with the sweep rate of 150 kHz using vibrations of optical fiber. Proceedings of SPIE, 2008, , .	0.8	1
313	Motor Core Fabrication through Ultrasonic Vibration Compaction of Soft Magnetic Composite. Japanese Journal of Applied Physics, 2009, 48, 07GM18.	1.5	1
314	A factors affecting compressibility of ultrasonic compaction for high efficiency electrical motor core fabricated soft magnetic composite. , 2009, , .		1
315	Potential of Brillouin scattering in polymer optical fiber for strain-insensitive high-accuracy temperature sensing. , 2011, , .		1
316	Fresnel Reflection Spectra at Multimode Optical Fiber Ends with Heterodyne Detection. Applied Physics Express, 2011, 4, 012501.	2.4	1
317	Holding and Preloading Mechanism Using a Buckling Parallel Leaf Spring for Ultrasonic Linear Motor. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2011, 77, 4144-4154.	0.2	1
318	High-Speed Measurement of Refractive Index Using Dielectric Multilayer Films Deposited on Optical Fiber End. Japanese Journal of Applied Physics, 2012, 51, 080202.	1.5	1
319	Experimental measurement of microbubble oscillation by using laser Doppler vibrometer. , 2012, , .		1
320	Three-dimensional focus scanning by an acoustic variable-focus optical liquid lens. , 2012, , .		1
321	Bar-shaped ultrasonic linear motor using traveling wave along rod with bimorph transducers. , 2012, , .		1
322	Sound pressure threshold of non-spherical oscillation of an attached bubble evaluated by a laser Doppler vibrometer. , 2012, , .		1
323	First observation of Brillouin scattering in tapered plastic optical fiber. , 2014, , .		1
324	Experimental study of underwater transmission characteristics of high-frequency 30MHz polyurea ultrasonic transducer. Ultrasonics, 2014, 54, 526-536.	3.9	1

#	Article	IF	Citations
325	Ultrasonic Actuators. Ieice Ess Fundamentals Review, 2014, 7, 249-255.	0.1	1
326	High-performance Brillouin optical correlation-domain reflectometry. , 2015, , .		1
327	Distributed Brillouin Sensing Using Polymer Optical Fibers. , 2018, , 97-135.		1
328	Infrared thermometry for breakage detection of optical fibers embedded in structures. Applied Physics Express, 2019, 12, 062007.	2.4	1
329	Torque accumulation for hybrid transducer ultrasonic motors using a coaxial driveshaft connection mechanism.. Journal of the Acoustical Society of Japan (E), 1998, 19, 39-49.	0.1	1
330	Torque accumulation of torsional vibration using a vibration disk with nodal circles.. Journal of the Acoustical Society of Japan (E), 1998, 19, 409-412.	0.1	1
331	Magnetoresponsive Optical Fiber with Fuseâ€Effectâ€Induced Fluorinated Graphene Oxide Core. Advanced Photonics Research, 0, , 2100209.	3.6	1
332	A positioning of optical fiber by ultrasonic standing vibration for optical fiber switch/array applications. , 0, , .		0
333	P1I-1 A Novel Magnetic Field Sensor Using Piezoelectric Vibrations. , 2006, , .		0
334	P1D-4 Characteristics of a Novel Magnetic Field Sensor Using Piezoelectric Vibrations. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	0
335	A 2 x 2 array of the multi-degree-of freedom ultrasonic actuators for a low profile two-dimensional sliding table. IEICE Electronics Express, 2009, 6, 317-321.	0.8	0
336	Three-dimensional variable-focus liquid lens using acoustic radiation force. , 2011, , .		0
337	High-speed focusing of a liquid microlens using acoustic radiation force. , 2011, , .		0
338	Endoscopic optical coherence elastography using acoustic radiation force and bending vibration of optical Fiber. Proceedings of SPIE, 2011, , .	0.8	0
339	Influence of core diameter and length of polymer optical fiber on Brillouin scattering properties. Proceedings of SPIE, 2012, , .	0.8	0
340	Direct calculation of acoustic streaming including the boundary layer phenomena in an ultrasonic air pump. , 2012, , .		0
341	High-speed focus scanning at 1 kHz by a variable-focus liquid lens using acoustic radiation force. , 2012, , .		0
342	Finite difference calculation of acoustic streaming including the boundary layer phenomena in an ultrasonic air pump on graphics processing unit array. , 2012, , .		0

#	Article	IF	Citations
343	Ultrasonic high-speed variable-focus optical lens. , 2012, , .		0
344	Experimental verification and modeling of high-efficiency operation in lubricated ultrasonic motors. , 2012, , .		0
345	Brillouin scattering in plastic optical fibers: Fundamental properties and sensing applications. , 2012, , .		0
346	Brillouin frequency shift dependences on temperature and strain in PMMA-based polymer optical fibers estimated by acoustic velocity measurement. , 2012, , .		0
347	Dependences of Brillouin frequency shift on strain and temperature in optical fibers doped with rare-earth ions. Proceedings of SPIE, 2012, , .	0.8	0
348	Varifocal imaging using an ultrasonic optical lens with viscoelastic material. , 2012, , .		0
349	High-speed measurement of refractive index using dielectric multilayer films deposited on optical fiber end. Proceedings of SPIE, 2012, , .	0.8	0
350	Ultrasonic variable-focus optical lens using transparent gel. IOP Conference Series: Materials Science and Engineering, 2012, 42, 012011.	0.6	0
351	Observation and characterization of stimulated Brillouin gain spectra in plastic optical fibers. Proceedings of SPIE, 2013, , .	0.8	0
352	Enhancement of Brillouin scattering signal in pumped erbium-doped optical fiber. Proceedings of SPIE, 2013, , .	0.8	0
353	Prototyping and evaluation of ultrasonic particle filter considering water flux and sound propagation direction. , 2013, , .		0
354	Enhancement of Brillouin signal in plastic optical fibers using pulsed pump with multimode-fiber-assisted coupling. , 2013, , .		0
355	Brillouin scattering properties in partially chlorinated plastic optical fibers estimated with ultrasonic pulse-echo technique. , 2013, , .		0
356	Ultra-Simple Setup for Distributed Brillouin Sensing. , 2014, , .		0
357	Fablication method of an optical lens arrray using ultraviolet light and ultrasound vibration. , 2014, , .		0
358	Discriminative measurement of strain and temperature using Brillouin scattering and fluorescence in erbium-doped optical fiber. , 2014, , .		0
359	Distributed strain and temperature sensing based on Brillouin scattering in plastic optical fibers. , 2014, , .		0
360	First observation of fiber fuse phenomenon in polymer optical fibers. , 2014, , .		0

#	Article	IF	Citations
361	Evaluation of Brillouin frequency shift and its temperature dependence in poly(pentafluorostyrene)-based polymer optical fibers by ultrasonic pulse-echo technique. Proceedings of SPIE, 2014, , .	0.8	0
362	Tunable optical lens array using viscoelastic material and acoustic radiation force. AIP Conference Proceedings, 2015, , .	0.4	0
363	Plastic optical fiber tapering without using external heat source. , 2015, , .		0
364	Influence of polarization scrambling on Brillouin optical correlation-domain reflectometry using plastic fibers. Proceedings of SPIE, 2015, , .	0.8	0
365	Experimental study on thermal memory effect in plastic optical fibers. , 2015, , .		0
366	Simplified correlation-domain Brillouin sensor using plastic optical fiber. Proceedings of SPIE, 2015, , .	0.8	0
367	Modal-interference-based temperature sensing using plastic optical fibers: markedly enhanced sensitivity near glass-transition temperature. , 2015, , .		0
368	Brillouin Scattering in Plastic Optical Fibers and its Applications to High-Speed Distributed Sensing. , 2016, , .		0
369	Locally pressed plastic optical fibers for refractive index sensing. Proceedings of SPIE, 2017, , .	0.8	0
370	Frequency Representation: Visualization and Clustering of Acoustic Data Using Self-Organizing Maps. Ultrasonic Imaging, 2017, 39, 339-347.	2.6	0
371	Polymer optical fiber tapering using hot water. Applied Physics Express, 2017, 10, 062502.	2.4	0
372	Slope-assisted Brillouin optical correlation-domain reflectometry using high-loss plastic optical fibers. Proceedings of SPIE, 2017, , .	0.8	0
373	Plastic optical fiber fuse and its impact on sensing applications. Proceedings of SPIE, 2017, , .	0.8	0
374	Clarification of strain-temperature cross-sensitivity effect on Brillouin frequency shift in plastic optical fibers. , 2017, , .		0
375	Highly Sensitive Slope-Assisted BOCDR Utilizing Polarization-Maintaining Fiber. , 2018, , .		0
376	Self-Running Non-Contact Ultrasonically Levitated Stage. , 2010, , 401-412.		0
377	Proposal for Blood-Flow Imaging by Contrast Echo Using Counter-Crossed Beams. Acoustical Imaging, 2011, , 47-52.	0.2	0
378	High-Speed Measurement of Refractive Index Using Dielectric Multilayer Films Deposited on Optical Fiber End. Japanese Journal of Applied Physics, 2012, 51, 080202.	1.5	0

#	Article	IF	Citations
379	Brillouin Light Scattering in Plastic Fibers. , 2014, , .		0
380	Ultra-Sensitive Strain and Temperature Sensing Based on Single-Mode-Multimode-Single-Mode Structure Comprising Perfluorinated Plastic Optical Fibers. , 2014, , .		0
381	A stress sensor with a fiber optic vertical coupler for matrix-readout multi-point measurements. , 1999, , .		0
382	Single-End-Access Strain and Temperature Sensing Based on Multimodal Interference in Plastic Optical Fibers. , 2016, , .		0
383	Widest-Ever Dynamic Range of Brillouin Strain Sensing Using Slimmed Plastic Optical Fibers. , 2018, , .		0
384	Brillouin Optical Correlation-Domain Reflectometry: State-of-the-Art and Future Challenges. , 2019, , .		0
385	Spatial resolution of BOCDR based on frequency modulation by arbitrary-shaped waveforms. , 2021, , .		0
386	Fiber-optic temperature sensor based on inline core-cladding-mode Machâ€“Zehnder interferometry with dynamically controllable sensing length. Applied Physics Express, 2022, 15, 022002.	2.4	0