

Kentaro Nakamura

List of Publications by Year in descending order

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386
papers

6,507
citations

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61
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all docs

398
docs citations

398
times ranked

2261
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensing Applications of Polymer Optical Fiber Fuse. <i>Advanced Photonics Research</i> , 2022, 3, 2100210.	3.6	8
2	Deformation measurement of liquid-filled elastic tube embedded in soft material using optimal pulse width method under photoacoustic excitation. <i>IEICE Electronics Express</i> , 2022, 19, 20210542-20210542.	0.8	2
3	A Linear Piezoelectric Actuator Using α -A-Shaped Structure. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1382-1391.	3.0	12
4	Fiber-optic temperature sensor based on inline core-cladding-mode Mach-Zehnder interferometry with dynamically controllable sensing length. <i>Applied Physics Express</i> , 2022, 15, 022002.	2.4	0
5	Wide-Dynamic-Range Brillouin Optical Correlation-Domain Reflectometry With 20-kHz Sampling Rate. <i>IEEE Sensors Journal</i> , 2022, 22, 6644-6650.	4.7	11
6	Characterization of modal interference in multi-core polymer optical fibers and its application to temperature sensing. <i>Applied Physics Express</i> , 2022, 15, 072002.	2.4	4
7	Super-simplified optical correlation-domain reflectometry. <i>Japanese Journal of Applied Physics</i> , 2022, 61, 078005.	1.5	3
8	A Rotary Ultrasonic Motor Operating in Torsional/Bending Modes With High Torque Density and High Power Density. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 6109-6120.	7.9	26
9	Highly Sensitive Fiber-Optic Intrinsic Electromagnetic Field Sensing. <i>Advanced Photonics Research</i> , 2021, 2, 2000078.	3.6	34
10	Spatial Resolution Enhancement of Brillouin Optical Correlation-Domain Reflectometry Using Convolutional Neural Network: Proof of Concept. <i>IEEE Access</i> , 2021, 9, 124701-124710.	4.2	8
11	Poly-Phenylene-Sulfide Wedge Transducer for Exciting Surface Acoustic Waves for Removing Droplets on a Glass Plate. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 3378-3385.	3.0	4
12	Brillouin optical correlation-domain reflectometry based on arbitrary waveform modulation: a theoretical study. <i>Optics Express</i> , 2021, 29, 13794.	3.4	5
13	Error compensation in Brillouin optical correlation-domain reflectometry by combining bidirectionally measured frequency shift distributions. <i>Applied Physics Express</i> , 2021, 14, 052006.	2.4	4
14	Selection of laser pulse width for efficient generation of photoacoustic signals in liquid-filled thin capillary embedded in soft material. <i>AIP Advances</i> , 2021, 11, .	1.3	2
15	Distributed polymer optical fiber sensors: a review and outlook. <i>Photonics Research</i> , 2021, 9, 1719.	7.0	47
16	Pilot demonstration of correlation-domain LiDAR for high-speed vibration detection. <i>APL Photonics</i> , 2021, 6, .	5.7	10
17	Spatial resolution of BOCDR based on frequency modulation by arbitrary-shaped waveforms. , 2021, , .		0
18	Characteristics of megahertz resonant platform for evaluating sensitivity of photoacoustic contrast agent. <i>Engineering Research Express</i> , 2021, 3, 045057.	1.6	2

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19	Piezoelectric Motor Utilizing an Alumina/PZT Transducer. IEEE Transactions on Industrial Electronics, 2020, 67, 6762-6772.	7.9	36
20	Measurement range enlargement in Brillouin optical correlation-domain reflectometry based on chirp modulation scheme. Applied Physics Express, 2020, 13, 082003.	2.4	9
21	Preparation of chloroaluminum phthalocyanine nanoparticles by laser ablation in liquid and their photoacoustic imaging. Journal of Laser Applications, 2020, 32, .	1.7	7
22	Recent progress in slope-assisted Brillouin optical correlation-domain reflectometry. Optical Fiber Technology, 2020, 59, 102312.	2.7	6
23	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
24	Evaluation methods for materials for power ultrasonic applications. Japanese Journal of Applied Physics, 2020, 59, SK0801.	1.5	21
25	Effect of laser temperature control on Brillouin optical correlation-domain reflectometry. Applied Physics Express, 2020, 13, 052001.	2.4	6
26	Molecular Orientation in a Variable-Focus Liquid Crystal Lens Induced by Ultrasound Vibration. Scientific Reports, 2020, 10, 6168.	3.3	17
27	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
28	Strain and temperature dependencies of multimodal interference spectra in hetero-core-fiber structures. Japanese Journal of Applied Physics, 2020, 59, 058002.	1.5	7
29	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
30	Pilot demonstration of correlation-domain distributed temperature sensing using forward Brillouin scattering. Japanese Journal of Applied Physics, 2020, 59, 088002.	1.5	9
31	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
32	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
33	A traveling-wave ultrasonic motor utilizing a ring-shaped alumina/PZT vibrator. Smart Materials and Structures, 2019, 28, 125017.	3.5	10
34	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
35	Observation of multimodal interference in millimeter-long polymer optical fibers. IEICE Electronics Express, 2019, 16, 20190135-20190135.	0.8	3
36	Infrared thermometry for breakage detection of optical fibers embedded in structures. Applied Physics Express, 2019, 12, 062007.	2.4	1

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37	Potential of Discriminative Sensing of Strain and Temperature Using Perfluorinated Polymer FBG. IEEE Sensors Journal, 2019, 19, 4458-4462.	4.7	12
38	Anisotropy of the high-power piezoelectric properties of Pb(Zr,Ti)O ₃ . Journal of the American Ceramic Society, 2019, 102, 6008-6017.	3.8	38
39	First demonstration of Brillouin optical correlation-domain reflectometry based on external modulation scheme. Japanese Journal of Applied Physics, 2019, 58, 068004.	1.5	14
40	Lorentzian demodulation algorithm for multimode polymer optical fiber Bragg gratings. Japanese Journal of Applied Physics, 2019, 58, 028003.	1.5	5
41	Proposal of external modulation scheme for fiber-optic correlation-domain distributed sensing. Applied Physics Express, 2019, 12, 022005.	2.4	16
42	Noise suppression technique for distributed Brillouin sensing with polymer optical fibers. Optics Letters, 2019, 44, 2097.	3.3	9
43	Enhanced stability and sensitivity of slope-assisted Brillouin optical correlation-domain reflectometry using polarization-maintaining fibers. OSA Continuum, 2019, 2, 874.	1.8	3
44	Brillouin Optical Correlation-Domain Reflectometry: State-of-the-Art and Future Challenges. , 2019, , .		0
45	Polymer-Based Ultrasonic Motors Utilizing High-Order Vibration Modes. IEEE/ASME Transactions on Mechatronics, 2018, 23, 788-799.	5.8	57
46	Ultrasound liquid crystal lens. Applied Physics Letters, 2018, 112, .	3.3	29
47	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
48	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
49	Hydrostatic pressure dependence of Brillouin frequency shift in polymer optical fibers. Applied Physics Express, 2018, 11, 012502.	2.4	9
50	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
51	Phase-detected Brillouin optical correlation-domain reflectometry. Optical Review, 2018, 25, 473-485.	2.0	8
52	Strain dependence of perfluorinated polymer optical fiber Bragg grating measured at different wavelengths. Japanese Journal of Applied Physics, 2018, 57, 038002.	1.5	12
53	Highly Sensitive Slope-Assisted BOCDR Utilizing Polarization-Maintaining Fiber. , 2018, , .		0
54	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

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55	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
56	Recent Advances in Brillouin Optical Correlation-Domain Reflectometry. Applied Sciences (Switzerland), 2018, 8, 1845.	2.5	13
57	Ultrasonic motors with poly phenylene sulfide/alumina/PZT triple-layered vibrators. Sensors and Actuators A: Physical, 2018, 284, 158-167.	4.1	11
58	Ultrasonic motor performance influenced by lubricant properties. Sensors and Actuators A: Physical, 2018, 282, 183-191.	4.1	9
59	Bending-loss-independent operation of slope-assisted Brillouin optical correlation-domain reflectometry. Scientific Reports, 2018, 8, 7844.	3.3	8
60	Strain, temperature, moisture, and transverse force sensing using fused polymer optical fibers. Optics Express, 2018, 26, 12939.	3.4	26
61	Design and characterization of a curvature sensor using fused polymer optical fibers. Optics Letters, 2018, 43, 2539.	3.3	22
62	Vibration characteristics of polymer-based Langevin transducers. Smart Materials and Structures, 2018, 27, 095013.	3.5	8
63	Dynamic mechanical analysis on fused polymer optical fibers: towards sensor applications. Optics Letters, 2018, 43, 1754.	3.3	15
64	Distributed Brillouin Sensing Using Polymer Optical Fibers. , 2018, , 97-135.		1
65	Compact test setup for sensitivity evaluation of photoacoustic contrast agent. Acoustical Science and Technology, 2018, 39, 259-262.	0.5	5
66	Brillouin characterization of slimmed polymer optical fibers for strain sensing with extremely wide dynamic range. Optics Express, 2018, 26, 28030.	3.4	6
67	Widest-Ever Dynamic Range of Brillouin Strain Sensing Using Slimmed Plastic Optical Fibers. , 2018, , .		0
68	Refractive index sensing using ultrasonically crushed polymer optical fibers. Applied Physics Express, 2017, 10, 012201.	2.4	2
69	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
70	Locally pressed plastic optical fibers for refractive index sensing. Proceedings of SPIE, 2017, , .	0.8	0
71	Frequency Representation: Visualization and Clustering of Acoustic Data Using Self-Organizing Maps. Ultrasonic Imaging, 2017, 39, 339-347.	2.6	0
72	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

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73	Polymer optical fiber tapering using hot water. Applied Physics Express, 2017, 10, 062502.	2.4	0
74	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
75	Slope-assisted Brillouin optical correlation-domain reflectometry using high-loss plastic optical fibers. Proceedings of SPIE, 2017, , .	0.8	0
76	Periodic pattern of liquid crystal molecular orientation induced by ultrasound vibrations. Applied Physics Letters, 2017, 111, .	3.3	7
77	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
78	Plastic optical fiber fuse and its impact on sensing applications. Proceedings of SPIE, 2017, , .	0.8	0
79	Structural parameter study on polymer-based ultrasonic motor. Smart Materials and Structures, 2017, 26, 115022.	3.5	21
80	Pressure Dependence of Fiber Bragg Grating Inscribed in Perfluorinated Polymer Fiber. IEEE Photonics Technology Letters, 2017, 29, 2167-2170.	2.5	53
81	Ejection of small droplet from microplate using focused ultrasound. Japanese Journal of Applied Physics, 2017, 56, 087202.	1.5	8
82	Experimental study on depolarized GAWBS spectrum for optomechanical sensing of liquids outside standard fibers. Optics Express, 2017, 25, 2239.	3.4	57
83	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
84	Clarification of strain-temperature cross-sensitivity effect on Brillouin frequency shift in plastic optical fibers. , 2017, , .		0
85	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
86	Pilot demonstration of refractive index sensing using polymer optical fiber crushed with slotted screwdriver. IEICE Electronics Express, 2017, 14, 20170962-20170962.	0.8	3
87	Dependence of Brillouin frequency shift on water absorption ratio in polymer optical fibers. Journal of Applied Physics, 2016, 119, 223102.	2.5	2
88	Optical correlation-domain reflectometry without optical frequency shifter. Applied Physics Express, 2016, 9, 032702.	2.4	24
89	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
90	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

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91	Brillouin Scattering in Plastic Optical Fibers and its Applications to High-Speed Distributed Sensing. , 2016, , .		0
92	Control of liquid crystal molecular orientation using ultrasound vibration. Applied Physics Letters, 2016, 108, .	3.3	20
93	Ultrahigh-speed distributed Brillouin reflectometry. Light: Science and Applications, 2016, 5, e16184-e16184.	16.6	166
94	Numerical simulation of compressible fluid flow in an ultrasonic suction pump. Ultrasonics, 2016, 70, 191-198.	3.9	5
95	Simplified optical correlation-domain reflectometry without reference path. Applied Optics, 2016, 55, 3925.	2.1	20
96	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
97	Traveling wave ultrasonic motor using polymer-based vibrator. Japanese Journal of Applied Physics, 2016, 55, 018001.	1.5	15
98	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
99	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
100	Measurement of mechanical quality factors of polymers in flexural vibration for high-power ultrasonic application. Ultrasonics, 2016, 69, 74-82.	3.9	14
101	Observation of Backward Guided-Acoustic-Wave Brillouin Scattering in Optical Fibers Using Pump-Probe Technique. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	10
102	Slope-Assisted Brillouin Optical Correlation-Domain Reflectometry: Proof of Concept. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	37
103	Movable optical lens array using ultrasonic vibration. Sensors and Actuators A: Physical, 2016, 237, 35-40.	4.1	13
104	Tribological performance of ceramics in lubricated ultrasonic motors. Wear, 2016, 352-353, 188-195.	3.1	19
105	Simplified optical correlation-domain reflectometry employing proximal reflection point. Japanese Journal of Applied Physics, 2016, 55, 128003.	1.5	10
106	Single-End-Access Strain and Temperature Sensing Based on Multimodal Interference in Plastic Optical Fibers. , 2016, , .		0
107	Refractive index sensing using V-shaped polymer optical fibers. Japanese Journal of Applied Physics, 2015, 54, 118001.	1.5	4
108	Strain and temperature sensing based on multimode interference in partially chlorinated polymer optical fibers. IEICE Electronics Express, 2015, 12, 20141173-20141173.	0.8	17

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109	Simplified optical correlation-domain reflectometry using polymer fiber. IEICE Electronics Express, 2015, 12, 20150824-20150824.	0.8	9
110	Brillouin scattering in multi-core optical fibers for sensing applications. Scientific Reports, 2015, 5, 11388.	3.3	38
111	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
112	Linear array transducer for high-power airborne ultrasound using flextensional structure. Japanese Journal of Applied Physics, 2015, 54, 07HE16.	1.5	4
113	Polarization scrambling in Brillouin optical correlation-domain reflectometry using polymer fibers. Applied Physics Express, 2015, 8, 062501.	2.4	4
114	Tunable optical lens array using viscoelastic material and acoustic radiation force. AIP Conference Proceedings, 2015, , .	0.4	0
115	100-MHz ultrasonic linear array transducers based on polyurea-film. Acoustical Science and Technology, 2015, 36, 139-148.	0.5	4
116	Plastic optical fiber tapering without using external heat source. , 2015, , .		0
117	High-performance Brillouin optical correlation-domain reflectometry. , 2015, , .		1
118	Simplified Brillouin Optical Correlation-Domain Reflectometry Using Polymer Optical Fiber. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	14
119	Ultrasonic motors with polymer-based vibrators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 2169-2178.	3.0	27
120	Influence of polarization scrambling on Brillouin optical correlation-domain reflectometry using plastic fibers. Proceedings of SPIE, 2015, , .	0.8	0
121	Experimental study on thermal memory effect in plastic optical fibers. , 2015, , .		0
122	Fabrication of an optical lens array using ultraviolet light and ultrasonication. Ultrasonics, 2015, 58, 22-26.	3.9	4
123	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
124	Simplified correlation-domain Brillouin sensor using plastic optical fiber. Proceedings of SPIE, 2015, , .	0.8	0
125	Thermal Memory Effect in Polymer Optical Fibers. IEEE Photonics Technology Letters, 2015, 27, 1394-1397.	2.5	10
126	Modal-interference-based temperature sensing using plastic optical fibers: markedly enhanced sensitivity near glass-transition temperature. , 2015, , .		0

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127	Temperature dependence of Brillouin frequency shift in polymers controlled by plasticization effect. Journal of Applied Physics, 2015, 117, .	2.5	4
128	Drastic sensitivity enhancement of temperature sensing based on multimodal interference in polymer optical fibers. Applied Physics Express, 2015, 8, 072502.	2.4	19
129	Airborne ultrasonic transducer using polymer-based elastomer with high output-to-weight ratio. Japanese Journal of Applied Physics, 2015, 54, 087201.	1.5	3
130	Propagation mechanism of polymer optical fiber fuse. Scientific Reports, 2015, 4, 4800.	3.3	22
131	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
132	Suppression of ghost correlation peak in Brillouin optical correlation-domain reflectometry. Applied Physics Express, 2014, 7, 112501.	2.4	7
133	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
134	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
135	Simplified Configuration of Brillouin Optical Correlation-Domain Reflectometry. IEEE Photonics Journal, 2014, 6, 1-7.	2.0	10
136	Alternative Implementation of Simplified Brillouin Optical Correlation-Domain Reflectometry. IEEE Photonics Journal, 2014, 6, 1-8.	2.0	8
137	Distributed Brillouin Sensing With Centimeter-Order Spatial Resolution in Polymer Optical Fibers. Journal of Lightwave Technology, 2014, 32, 3999-4003.	4.6	59
138	Ultra-Simple Setup for Distributed Brillouin Sensing. , 2014, , .		0
139	Discriminative strain and temperature measurement using Brillouin scattering and fluorescence in erbium-doped optical fiber. Optics Express, 2014, 22, 24706.	3.4	17
140	Can lubricant enhance the torque of ultrasonic motors? An experimental investigation. Applied Physics Letters, 2014, 105, .	3.3	10
141	Observation of polymer optical fiber fuse. Applied Physics Letters, 2014, 104, 043302.	3.3	41
142	Observation of Brillouin gain spectrum in tapered polymer optical fiber. Journal of Applied Physics, 2014, 115, 173108.	2.5	14
143	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
144	Brillouin frequency shift hopping in polymer optical fiber. Applied Physics Letters, 2014, 105, .	3.3	23

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145	Fabrication method of an optical lens array using ultraviolet light and ultrasound vibration. , 2014, , .		0
146	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
147	Ultrasonic motors with polymer vibrator. , 2014, , .		2
148	Discriminative measurement of strain and temperature using Brillouin scattering and fluorescence in erbium-doped optical fiber. , 2014, , .		0
149	Distributed strain and temperature sensing based on Brillouin scattering in plastic optical fibers. , 2014, , .		0
150	First observation of fiber fuse phenomenon in polymer optical fibers. , 2014, , .		0
151	Wide-range temperature dependences of Brillouin scattering properties in polymer optical fiber. Japanese Journal of Applied Physics, 2014, 53, 042502.	1.5	32
152	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
153	First observation of Brillouin scattering in tapered plastic optical fiber. , 2014, , .		1
154	Fiber-optic ultrasonic hydrophone using short Fabry-Pérot cavity with multilayer reflectors deposited on small stub. Ultrasonics, 2014, 54, 1047-1051.	3.9	30
155	Plate-shaped non-contact ultrasonic transporter using flexural vibration. Ultrasonics, 2014, 54, 455-460.	3.9	13
156	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
157	Experimental study of underwater transmission characteristics of high-frequency 30MHz polyurea ultrasonic transducer. Ultrasonics, 2014, 54, 526-536.	3.9	1
158	Non-contact piezoelectric rotary motor modulated by giant electrorheological fluid. Sensors and Actuators A: Physical, 2014, 217, 124-128.	4.1	27
159	Destruction of polylactic acid microcapsules under ultrasound irradiation. Applied Acoustics, 2014, 78, 89-91.	3.3	3
160	Ultrasonic Actuators. IEEA Ess Fundamentals Review, 2014, 7, 249-255.	0.1	1
161	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
162	Brillouin Light Scattering in Plastic Fibers. , 2014, , .		0

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163	Ultra-Sensitive Strain and Temperature Sensing Based on Single-Mode-Multimode-Single-Mode Structure Comprising Perfluorinated Plastic Optical Fibers. , 2014, , .		0
164	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
165	Behavior of Ultrasonically Levitated Object above Reflector Hole. Japanese Journal of Applied Physics, 2013, 52, 100201.	1.5	7
166	Characterization of Stimulated Brillouin Scattering in Polymer Optical Fibers Based on Lock-in-Free Pump-Probe Technique. Journal of Lightwave Technology, 2013, 31, 3162-3166.	4.6	11
167	An ultrasonic motor using thrust bearing for friction drive with lubricant. , 2013, , .		4
168	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
169	Estimation of absolute sound pressure in a small-sized sonochemical reactor. Ultrasonics Sonochemistry, 2013, 20, 468-471.	8.2	3
170	Observation and characterization of stimulated Brillouin gain spectra in plastic optical fibers. Proceedings of SPIE, 2013, , .	0.8	0
171	L-BOFDA: a new sensor technique for distributed Brillouin sensing. , 2013, , .		15
172	Enhancement of Brillouin scattering signal in pumped erbium-doped optical fiber. Proceedings of SPIE, 2013, , .	0.8	0
173	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
174	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
175	Improved technique for etching overcladding layer of perfluorinated polymer optical fibre by chloroform and water. Electronics Letters, 2013, 49, 1630-1632.	1.0	5
176	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
177	Observation of stimulated Brillouin scattering in silica graded-index multimode optical fibre based on pump-probe technique. Electronics Letters, 2013, 49, 366-367.	1.0	2
178	RGB representation of two-dimensional multi-spectral acoustic data for object surface profile imaging. Measurement Science and Technology, 2013, 24, 105401.	2.6	7
179	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
180	Demonstration of Noncontact Ultrasonic Mixing of Droplets. Japanese Journal of Applied Physics, 2013, 52, 07HE02.	1.5	16

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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	Object Characterization Based on Multispectral Acoustic Imaging. Japanese Journal of Applied Physics, 2013, 52, 127301.	1.5	4
183	Fast Flaw Detection in Polymer Optical Fibers with Infrared Thermometer. Applied Physics Express, 2013, 6, 076601.	2.4	4
184	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
185	Prototyping and evaluation of ultrasonic particle filter considering water flux and sound propagation direction. , 2013, , .		0
186	Enhancement of Brillouin signal in plastic optical fibers using pulsed pump with multimode-fiber-assisted coupling. , 2013, , .		0
187	Brillouin scattering properties in partially chlorinated plastic optical fibers estimated with ultrasonic pulse-echo technique. , 2013, , .		0
188	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
189	Influence of core diameter and length of polymer optical fiber on Brillouin scattering properties. Proceedings of SPIE, 2012, , .	0.8	0
190	Simple coupling method for enhancing Brillouin scattering signal in polymer optical fibres. Electronics Letters, 2012, 48, 1300.	1.0	5
191	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
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