Xiaoyi Bao

List of Publications by Year in descending order

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		31976	37204
511 papers	12,406 citations	53 h-index	96 g-index

513 all docs	513 docs citations	513 times ranked	4325 citing authors

#	Article	IF	Citations
1	Recent Progress in Distributed Fiber Optic Sensors. Sensors, 2012, 12, 8601-8639.	3.8	1,026
2	Recent Progress in Brillouin Scattering Based Fiber Sensors. Sensors, 2011, 11, 4152-4187.	3.8	520
3	Differential pulse-width pair BOTDA for high spatial resolution sensing. Optics Express, 2008, 16, 21616.	3.4	443
4	Review: optical fiber sensors for civil engineering applications. Materials and Structures/Materiaux Et Constructions, 2015, 48, 871-906.	3.1	293
5	Wavelet Denoising Method for Improving Detection Performance of Distributed Vibration Sensor. IEEE Photonics Technology Letters, 2012, 24, 542-544.	2.5	246
6	Experimental and theoretical studies on a distributed temperature sensor based on Brillouin scattering. Journal of Lightwave Technology, 1995, 13, 1340-1348.	4.6	237
7	32-km distributed temperature sensor based on Brillouin loss in an optical fiber. Optics Letters, 1993, 18, 1561.	3.3	230
8	2Âcm spatial-resolution and 2 km range Brillouin optical fiber sensor using a transient differential pulse pair. Applied Optics, 2012, 51, 1229.	1.8	221
9	Distributed optical fiber vibration sensor based on spectrum analysis of Polarization-OTDR system. Optics Express, 2008, 16, 10240.	3.4	190
10	Distributed Vibration Sensor Based on Coherent Detection of Phase-OTDR. Journal of Lightwave Technology, 2010, , .	4.6	168
11	High Sensitivity Distributed Vibration Sensor Based on Polarization-Maintaining Configurations of Phase-OTDR. IEEE Photonics Technology Letters, 2011, 23, 1091-1093.	2.5	168
12	Characterization of the Brillouin-loss spectrum of single-mode fibers by use of very short (<10-ns) pulses. Optics Letters, 1999, 24, 510.	3.3	165
13	Modulated pulses based distributed vibration sensing with high frequency response and spatial resolution. Optics Express, 2013, 21, 2953.	3.4	159
14	Single-shot BOTDA based on an optical chirp chain probe wave for distributed ultrafast measurement. Light: Science and Applications, 2018, 7, 32.	16.6	158
15	Combined distributed temperature and strain sensor based on Brillouin loss in an optical fiber. Optics Letters, 1994, 19, 141.	3.3	138
16	22-km distributed temperature sensor using Brillouin gain in an optical fiber. Optics Letters, 1993, 18, 552.	3.3	137
17	Dependence of the Brillouin frequency shift on strain and temperature in a photonic crystal fiber. Optics Letters, 2004, 29, 1485.	3.3	133
18	Time-division multiplexing-based BOTDA over 100km sensing length. Optics Letters, 2011, 36, 277.	3.3	132

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19	Long-Range High Spatial Resolution Distributed Temperature and Strain Sensing Based on Optical Frequency-Domain Reflectometry. IEEE Photonics Journal, 2014, 6, 1-8.	2.0	129
20	Distributed vibration sensing with time-resolved optical frequency-domain reflectometry. Optics Express, 2012, 20, 13138.	3.4	120
21	Tensile and compressive strain measurement in the lab and field with the distributed Brillouin scattering sensor. Journal of Lightwave Technology, 2001, 19, 1698-1704.	4.6	119
22	Observation of narrow linewidth spikes in the coherent Brillouin random fiber laser. Optics Letters, 2013, 38, 1866.	3.3	118
23	High-resolution DPP-BOTDA over 50 km LEAF using return-to-zero coded pulses. Optics Letters, 2010, 35, 1503.	3.3	106
24	Continuous wavelet transform for non-stationary vibration detection with phase-OTDR. Optics Express, 2012, 20, 20459.	3.4	101
25	Extending the Sensing Range of Brillouin Optical Time-Domain Analysis Combining Frequency-Division Multiplexing and In-Line EDFAs. Journal of Lightwave Technology, 2012, 30, 1161-1167.	4.6	101
26	Truly distributed birefringence measurement of polarization-maintaining fibers based on transient Brillouin grating. Optics Letters, 2010, 35, 193.	3.3	99
27	Recent Development in the Distributed Fiber Optic Acoustic and Ultrasonic Detection. Journal of Lightwave Technology, 2017, 35, 3256-3267.	4.6	89
28	Theoretical and Experimental Analysis of O-OTDR Based on Polarization Diversity Detection. IEEE Photonics Technology Letters, 2016, 28, 697-700.	2.5	88
29	High-Spatial-Resolution Fast BOTDA for Dynamic Strain Measurement Based on Differential Double-Pulse and Second-Order Sideband of Modulation. IEEE Photonics Journal, 2013, 5, 2600407-2600407.	2.0	82
30	Coherent probe-pump-based Brillouin sensor for centimeter-crack detection. Optics Letters, 2005, 30, 370.	3.3	79
31	High-Spatial-Resolution Time-Domain Simultaneous Strain and Temperature Sensor Using Brillouin Scattering and Birefringence in a Polarization-Maintaining Fiber. IEEE Photonics Technology Letters, 2010, 22, 1364-1366.	2.5	79
32	Using pulse with a dark base to achieve high spatial and frequency resolution for the distributed Brillouin sensor. Optics Letters, 2008, 33, 2707.	3.3	78
33	Highly sensitive fiber random-grating-based random laser sensor for ultrasound detection. Optics Letters, 2017, 42, 1353.	3.3	78
34	Frequency stabilized coherent Brillouin random fiber laser: theory and experiments. Optics Express, 2013, 21, 27155.	3.4	75
35	Distributed temperature sensing based on birefringence effect on transient Brillouin grating in a polarization-maintaining photonic crystal fiber. Optics Letters, 2009, 34, 2590.	3.3	74
36	Rayleigh scattering-assisted narrow linewidth Brillouin lasing in cascaded fiber. Optics Letters, 2012, 37, 3129.	3.3	74

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37	Experimental study on stimulated Rayleigh scattering in optical fibers. Optics Express, 2010, 18, 22958.	3.4	69
38	Distributed Temperature and Strain Discrimination with Stimulated Brillouin Scattering and Rayleigh Backscatter in an Optical Fiber. Sensors, 2013, 13, 1836-1845.	3.8	66
39	Brillouin Spectrum in LEAF and Simultaneous Temperature and Strain Measurement. Journal of Lightwave Technology, 2012, 30, 1053-1059.	4.6	64
40	Opto-mechanical time-domain analysis based on coherent forward stimulated Brillouin scattering probing. Optica, 2020, 7, 176.	9.3	64
41	C- and L-band tunable fiber ring laser using a two-taper Machâ€“Zehnder interferometer filter. Optics Letters, 2010, 35, 3354.	3.3	63
42	Highly sensitive in-fiber interferometric refractometer with temperature and axial strain compensation. Optics Express, 2013, 21, 9996.	3.4	63
43	Analytical and numerical solutions for steady state stimulated Brillouin scattering in a single-mode fiber. Optics Communications, 1998, 152, 65-70.	2.1	61
44	Single-mode SOA-based 1kHz-linewidth dual-wavelength random fiber laser. Optics Express, 2017, 25, 15828.	3.4	60
45	Fast state of polarization changes in aerial fiber under different climatic conditions. IEEE Photonics Technology Letters, 2001, 13, 1035-1037.	2.5	58
46	Tunable Er-doped fiber ring laser with single longitudinal mode operation based on Rayleigh backscattering in single mode fiber. Optics Express, 2011, 19, 25981.	3.4	58
47	Vibration sensing using a tapered bend-insensitive fiber based Mach-Zehnder interferometer. Optics Express, 2013, 21, 3031.	3.4	57
48	Brillouin scattering spectrum in photonic crystal fiber with a partially germanium-doped core. Optics Letters, 2003, 28, 2022.	3.3	56
49	A Single Longitudinal-Mode Tunable Fiber Ring Laser Based on Stimulated Rayleigh Scattering in a Nonuniform Optical Fiber. Journal of Lightwave Technology, 2011, 29, 1802-1807.	4.6	56
50	Differential Brillouin gain for improving the temperature accuracy and spatial resolution in a long-distance distributed fiber sensor. Applied Optics, 2009, 48, 4297.	2.1	55
51	Optical fiber random grating-based multiparameter sensor. Optics Letters, 2015, 40, 5514.	3.3	55
52	Multi-Wavelength Brillouin Random Fiber Laser via Distributed Feedback From a Random Fiber Grating. Journal of Lightwave Technology, 2018, 36, 2122-2128.	4.6	55
53	All Fiber Distributed Vibration Sensing Using Modulated Time-Difference Pulses. IEEE Photonics Technology Letters, 2013, 25, 1955-1957.	2.5	53
54	Double-Pass In-Line Fiber Taper Machâ€“Zehnder Interferometer Sensor. IEEE Photonics Technology Letters, 2010, 22, 1750-1752.	2.5	52

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55	Sub-MHz ultrahigh-resolution optical spectrometry based on Brillouin dynamic gratings. Optics Letters, 2014, 39, 2967.	3.3	52
56	Simultaneous distributed strain and temperature measurement. Applied Optics, 1999, 38, 5372.	2.1	51
57	In-fiber Machâ€“Zehnder interferometric refractive index sensors with guided and leaky modes. Sensors and Actuators B: Chemical, 2015, 206, 246-251.	7.8	51
58	Recent Developments in Micro-Structured Fiber Optic Sensors. Fibers, 2017, 5, 3.	4.0	51
59	Spatial resolution enhancement of a Brillouin-distributed sensor using a novel signal processing method. Journal of Lightwave Technology, 1999, 17, 1179-1183.	4.6	50
60	Slow and fast light via SBS in optical fibers for short pulses and broadband pump. Optics Express, 2006, 14, 12693.	3.4	50
61	Application of spectrum differential integration method in an in-line fiber Mach-Zehnder refractive index sensor. Optics Express, 2010, 18, 8135.	3.4	50
62	Characterization of evolution of mode coupling in a graded-index polymer optical fiber by using Brillouin optical time-domain analysis. Optics Express, 2014, 22, 26510.	3.4	50
63	Temperature-compensated distributed hydrostatic pressure sensor with a thin-diameter polarization-maintaining photonic crystal fiber based on Brillouin dynamic gratings. Optics Letters, 2016, 41, 4413.	3.3	50
64	Strain measurement in a concrete beam by use of the Brillouin-scattering-based distributed fiber sensor with single-mode fibers embedded in glass fiber reinforced polymer rods and bonded to steel reinforcing bars. Applied Optics, 2002, 41, 5105.	2.1	49
65	Distributed Brillouin scattering sensor for discrimination of wall-thinning defects in steel pipe under internal pressure. Applied Optics, 2004, 43, 1583.	2.1	49
66	Stabilization of electro-optic modulator bias voltage drift using a lock-in amplifier and a proportional-integral-derivative controller in a distributed Brillouin sensor system. Applied Optics, 2007, 46, 1482.	2.1	49
67	Monitoring the distributed impact wave on a concrete slab due to the traffic based on polarization dependence on stimulated Brillouin scattering. Smart Materials and Structures, 2008, 17, 015003.	3.5	49
68	Simultaneous refractive index and temperature measurements using a tapered bend-resistant fiber interferometer. Optics Letters, 2012, 37, 4567.	3.3	49
69	Simultaneous distributed static and dynamic sensing based on ultra-short fiber Bragg gratings. Optics Express, 2018, 26, 17437.	3.4	49
70	Characterization of the Brillouin grating spectra in a polarization-maintaining fiber. Optics Express, 2010, 18, 18960.	3.4	47
71	150â€‰â€‰km fast BOTDA based on the optical chirp chain probe wave and Brillouin loss scheme. Optics Letters, 2018, 43, 4679.	3.3	47
72	Effect of the finite extinction ratio of an electro-optic modulator on the performance of distributed probe-pump Brillouin sensorsystems. Optics Letters, 2003, 28, 1418.	3.3	46

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73	Sensitive acoustic vibration sensor using single-mode fiber tapers. Applied Optics, 2011, 50, 1873.	2.1	45
74	Structural monitoring by use of a Brillouin distributed sensor. Applied Optics, 1999, 38, 2755.	2.1	44
75	How to obtain high spectral resolution of SBS-based distributed sensing by using nanosecond pulses. Optics Express, 2006, 14, 2071.	3.4	44
76	Random spaced index modulation for a narrow linewidth tunable fiber laser with low intensity noise. Optics Letters, 2014, 39, 2294.	3.3	42
77	Frequency Response Enhancement by Periodical Nonuniform Sampling in Distributed Sensing. IEEE Photonics Technology Letters, 2015, 27, 2158-2161.	2.5	42
78	Ultrasound sensing based on an in-fiber dual-cavity Fabryâ€“Perot interferometer. Optics Letters, 2019, 44, 3606.	3.3	42
79	Detection of buckling in steel pipeline and column by the distributed Brillouin sensor. Optical Fiber Technology, 2006, 12, 305-311.	2.7	41
80	Suppression of thermal frequency noise in erbium-doped fiber random lasers. Optics Letters, 2014, 39, 1038.	3.3	41
81	Time evolution of polarization mode dispersion in optical fibers. IEEE Photonics Technology Letters, 1998, 10, 1265-1267.	2.5	39
82	Simultaneous strain and temperature measurements with polarization-maintaining fibers and their error analysis by use of a distributed Brillouin loss system. Optics Letters, 2004, 29, 1342.	3.3	39
83	Distributed Brillouin fiber sensor for detecting pipeline buckling in an energy pipe under internal pressure. Applied Optics, 2006, 45, 3372.	2.1	39
84	Frequency-shifted light storage via stimulated Brillouin scattering in optical fibers. Optics Letters, 2008, 33, 2848.	3.3	39
85	Compensation of temperature and strain coefficients due to local birefringence using optical frequency domain reflectometry. Optics Communications, 2013, 311, 26-32.	2.1	39
86	Distributed dynamic strain measurement using optical frequency-domain reflectometry. Applied Optics, 2016, 55, 6735.	2.1	39
87	High-efficiency Brillouin random fiber laser using all-polarization maintaining ring cavity. Optics Express, 2017, 25, 11306.	3.4	39
88	Recent Advancements in Rayleigh Scattering-Based Distributed Fiber Sensors. Advanced Devices & Instrumentation, 2021, 2021, .	6.5	39
89	Recent progress in optical fiber sensors based on Brillouin scattering at university of Ottawa. Photonic Sensors, 2011, 1, 102-117.	5.0	38
90	Influence of finite extinction ratio on performance of phase-sensitive optical time-domain reflectometry. Optics Express, 2016, 24, 13325.	3.4	38

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91	Low-noise Brillouin random fiber laser with a random grating-based resonator. Optics Letters, 2016, 41, 3197.	3.3	38
92	Time-delay signature suppression in a chaotic semiconductor laser by fiber random grating induced random distributed feedback. Optics Letters, 2017, 42, 4107.	3.3	38
93	High sensitivity optical fiber current sensor based on polarization diversity and a Faraday rotation mirror cavity. Applied Optics, 2011, 50, 924.	2.1	37
94	Statistics of polarization mode dispersion in presence of the polarization dependent loss in single mode fibers. Optics Communications, 1999, 169, 69-73.	2.1	35
95	Low-Loss Random Fiber Gratings Made With an fs-IR Laser for Distributed Fiber Sensing. Journal of Lightwave Technology, 2019, 37, 4697-4702.	4.6	35
96	Polarization mode dispersion and polarization dependent loss for a pulse in single-mode fibers. Journal of Lightwave Technology, 2001, 19, 856-860.	4.6	34
97	System optimization of a long-range Brillouin-loss-based distributed fiber sensor. Applied Optics, 2010, 49, 5020.	2.1	34
98	A Novel Distributed Brillouin Sensor Based on Optical Differential Parametric Amplification. Journal of Lightwave Technology, 2010, 28, 2621-2626.	4.6	34
99	Temperature dependence of Brillouin frequency, power, and bandwidth in panda, bow-tie, and tiger polarization-maintaining fibers. Optics Letters, 2004, 29, 17.	3.3	32
100	Four-wave mixing analysis of Brillouin dynamic grating in a polarization-maintaining fiber: theory and experiment. Optics Express, 2011, 19, 20785.	3.4	32
101	1200Â°C high-temperature distributed optical fiber sensing using Brillouin optical time domain analysis. Applied Optics, 2016, 55, 5471.	2.1	32
102	Multi-parameter sensor based on stimulated Brillouin scattering in inverse-parabolic graded-index fiber. Optics Letters, 2016, 41, 1138.	3.3	32
103	Continuous and Damped Vibration Detection Based on Fiber Diversity Detection Sensor by Rayleigh Backscattering. Journal of Lightwave Technology, 2008, 26, 832-838.	4.6	31
104	Bend-insensitive distributed sensing in singlemode-multimode-singlemode optical fiber structure by using Brillouin optical time-domain analysis. Optics Express, 2015, 23, 22714.	3.4	31
105	Linearly polarized low-noise Brillouin random fiber laser. Optics Letters, 2017, 42, 739.	3.3	31
106	Brillouin Scattering Based Distributed Sensors for Structural Applications. Journal of Intelligent Material Systems and Structures, 1999, 10, 340-349.	2.5	30
107	Narrow linewidth low frequency noise Er-doped fiber ring laser based on femtosecond laser induced random feedback. Applied Physics Letters, 2014, 105, .	3.3	30
108	A High-Speed Distributed Ultra-Weak FBG Sensing System With High Resolution. IEEE Photonics Technology Letters, 2017, 29, 1249-1252.	2.5	30

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109	Review: distributed time-domain sensors based on Brillouin scattering and FWM enhanced SBS for temperature, strain and acoustic wave detection. PhotoniX, 2021, 2, 14.	13.5	30
110	Statistical distribution of polarization-dependent loss in the presence of polarization-mode dispersion in single-mode fibers. IEEE Photonics Technology Letters, 2001, 13, 451-453.	2.5	29
111	Signal Processing Technique for Distributed Brillouin Sensing at Centimeter Spatial Resolution. Journal of Lightwave Technology, 2007, 25, 3610-3618.	4.6	29
112	Tapered-fiber-based refractive index sensor at an air/solution interface. Applied Optics, 2012, 51, 7368.	1.8	29
113	Enhancement of optical pulse extinction-ratio using the nonlinear Kerr effect for phase-OTDR. Optics Express, 2016, 24, 19424.	3.4	29
114	Random Fabryâ€“Perot resonator-based sub-kHz Brillouin fiber laser to improve spectral resolution in linewidth measurement. Optics Letters, 2015, 40, 1920.	3.3	28
115	Distributed Strain and Temperature Measurement by Brillouin Beat Spectrum. IEEE Photonics Technology Letters, 2013, 25, 1050-1053.	2.5	27
116	Low Frequency-Noise Random Fiber Laser With Bidirectional SBS and Rayleigh Feedback. IEEE Photonics Technology Letters, 2015, 27, 490-493.	2.5	27
117	Brillouin optical time-domain analysis via compressed sensing. Optics Letters, 2018, 43, 5496.	3.3	26
118	Effect of beam waists on performance of the tunable fiber laser based on in-line two-taper Machâ€“Zehnder interferometer filter. Applied Optics, 2011, 50, 5714.	2.1	25
119	Polarization dependence of Brillouin linewidth and peak frequency due to fiber inhomogeneity in single mode fiber and its impact on distributed fiber Brillouin sensing. Optics Express, 2012, 20, 6385.	3.4	25
120	High-sensitivity distributed transverse load sensor with an elliptical-core fiber based on Brillouin dynamic gratings. Optics Letters, 2015, 40, 5003.	3.3	25
121	Multi-parameter sensor based on random fiber lasers. AIP Advances, 2016, 6, .	1.3	25
122	A self-gain random distributed feedback fiber laser based on stimulated Rayleigh scattering. Optics Communications, 2012, 285, 1371-1374.	2.1	24
123	In-line fiber microcantilever vibration sensor. Applied Physics Letters, 2013, 103, .	3.3	24
124	Ultranarrow Linewidth Brillouin Fiber Laser. IEEE Photonics Technology Letters, 2014, 26, 2058-2061.	2.5	24
125	Measuring strain fields in FRP strengthened RC shear walls using a distributed fiber optic sensor. Engineering Structures, 2017, 152, 359-369.	5.3	24
126	Experimental observation of excess noise in a detuned phase-modulation harmonic mode-locking laser. Physical Review A, 2006, 74, .	2.5	23

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127	Distributed birefringence measurement with beat period detection of homodyne Brillouin optical time-domain reflectometry. Optics Letters, 2012, 37, 3936.	3.3	23
128	Large-scale multiplexing of a FBG array with randomly varied characteristic parameters for distributed sensing. Optics Letters, 2018, 43, 5259.	3.3	23
129	Polarization-Mode Dispersion Measurement in a System With Polarization-Dependent Loss or Gain. IEEE Photonics Technology Letters, 2004, 16, 206-208.	2.5	22
130	Enhancement of stimulated Brillouin scattering of higher-order acoustic modes in single-mode optical fiber. Optics Letters, 2005, 30, 2685.	3.3	22
131	Picosecond-pulse wavelength conversion based on cascaded second-harmonic generation-difference frequency generation in a periodically poled lithium niobate waveguide. Applied Optics, 2006, 45, 5391.	2.1	22
132	Optical Fiber Sensors Based on Brillouin Scattering. Optics and Photonics News, 2009, 20, 40.	0.5	22
133	A fourth-order Runge-Kutta in the interaction picture method for numerically solving the coupled nonlinear SchrÂ¨odinger equation. Optics Express, 2010, 18, 8261.	3.4	22
134	Long-Range and High-Spatial-Resolution Distributed Birefringence Measurement of a Polarization-Maintaining Fiber Based on Brillouin Dynamic Grating. Journal of Lightwave Technology, 2013, 31, 2681-2686.	4.6	22
135	Multiwavelength Coherent Brillouin Random Fiber Laser With Ultrahigh Optical Signal-to-Noise Ratio. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-8.	2.9	22
136	Gamma ray radiation induced visible light absorption in P-doped silica fibers at low dose levels. Radiation Measurements, 1999, 30, 725-733.	1.4	21
137	Chalcogenide Taper and Its Nonlinear Effects and Sensing Applications. IScience, 2020, 23, 100802.	4.1	21
138	Pulse width dependance of the Brillouin loss spectrum. Optics Communications, 1999, 168, 393-398.	2.1	20
139	Polarization-dependent loss-induced pulse narrowing in birefringent optical fiber with finite differential group delay. Journal of Lightwave Technology, 2000, 18, 665-667.	4.6	20
140	Theoretical and experimental study of the dynamics of polarization-mode dispersion. IEEE Photonics Technology Letters, 2002, 14, 468-470.	2.5	20
141	Polarization effects in aerial fibers. Optical Fiber Technology, 2005, 11, 1-19.	2.7	20
142	Tensile strain dependence of the Brillouin gain spectrum in carbon/polyimide coated fibers. Optics Letters, 2007, 32, 2565.	3.3	20
143	High-Efficiency Random Fiber Laser Based on Strong Random Fiber Grating for MHz Ultrasonic Sensing. IEEE Sensors Journal, 2020, 20, 5885-5892.	4.7	20
144	System outage probability due to the combined effect of PMD and PDL. Journal of Lightwave Technology, 2002, 20, 1805-1808.	4.6	19

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145	Slow light of subnanosecond pulses via stimulated Brillouin scattering in nonuniform fibers. Physical Review A, 2007, 75, .	2.5	19
146	Distributed Brillouin sensor system based on offset locking of two distributed feedback lasers. Applied Optics, 2008, 47, 99.	2.1	19
147	Truly random bit generation based on a novel random Brillouin fiber laser. Optics Letters, 2015, 40, 5415.	3.3	19
148	Random Brillouin fiber laser for tunable ultra-narrow linewidth microwave generation. Optics Letters, 2016, 41, 4839.	3.3	19
149	High-speed demodulation of weak fiber Bragg gratings based on microwave photonics and chromatic dispersion. Optics Letters, 2018, 43, 2430.	3.3	19
150	Ultrafast Laser Processing of Optical Fibers for Sensing Applications. Sensors, 2021, 21, 1447.	3.8	19
151	High efficiency Brillouin random fiber laser with replica symmetry breaking enabled by random fiber grating. Optics Express, 2021, 29, 6532.	3.4	19
152	Effect of Brillouin slow light on distributed Brillouin fiber sensors. Optics Letters, 2006, 31, 2698.	3.3	18
153	Tunable Fabry-Perot filter using hollow-core photonic bandgap fiber and micro-fiber for a narrow-linewidth laser. Optics Express, 2011, 19, 9617.	3.4	18
154	Thermal and mechanical properties of tapered single mode fiber measured by OFDR and its application for high-sensitivity force measurement. Optics Express, 2012, 20, 14779.	3.4	18
155	Chromatic-dispersion measurement by modulation phase-shift method using a Kerr phase-interrogator. Optics Express, 2014, 22, 22314.	3.4	18
156	Study of Ð-OTDR stability for dynamic strain measurement in piezoelectric vibration. Photonic Sensors, 2016, 6, 199-208.	5.0	18
157	Strain measurement range enhanced chirped pulse Ï†-OTDR for distributed static and dynamic strain measurement based on random fiber grating array. Optics Letters, 2020, 45, 6110.	3.3	18
158	Prediction of the pipe buckling by using broadening factor with distributed Brillouin fiber sensors. Optical Fiber Technology, 2008, 14, 109-113.	2.7	17
159	Group-Delay-Based Temperature Sensing in Linearly-Chirped Fiber Bragg Gratings Using a Kerr Phase-Interrogator. Journal of Lightwave Technology, 2015, 33, 381-385.	4.6	17
160	Tapered fiber based Brillouin random fiber laser and its application for linewidth measurement. Optics Express, 2016, 24, 28353.	3.4	17
161	Two-photon absorption and resonant non-phase-matched second-harmonic generation in CdSe. Optical and Quantum Electronics, 1990, 22, 351-367.	3.3	16
162	Distributed temperature sensor based on Brillouin loss in an optical fibre for transient threshold monitoring. Canadian Journal of Physics, 1996, 74, 1-3.	1.1	16

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163	Simultaneous strain and temperature monitoring of the composite cure with a Brillouin-scattering-based distributed sensor. Optical Engineering, 2002, 41, 1496.	1.0	16
164	Criterion for subpulse-length resolution and minimum frequency shift in distributed Brillouin sensors. IEEE Photonics Technology Letters, 2005, 17, 1504-1506.	2.5	16
165	Influence of transient phonon relaxation on the Brillouin loss spectrum of nanosecond pulses. Optics Letters, 2006, 31, 888.	3.3	16
166	Generating a high-extinction-ratio pulse from a phase-modulated optical signal with a dispersion-imbalanced nonlinear loop mirror. Optics Letters, 2006, 31, 1032.	3.3	16
167	Spatial resolution analysis for discrete Fourier transform-based Brillouin optical time domain reflectometry. Measurement Science and Technology, 2009, 20, 025202.	2.6	16
168	Distributed vibration/acoustic sensing with high frequency response and spatial resolution based on time-division multiplexing. Optics Communications, 2014, 331, 287-290.	2.1	16
169	High-Sensitivity Temperature and Strain Measurement in Dual-Core Hybrid Tapers. IEEE Photonics Technology Letters, 2018, 30, 1155-1158.	2.5	16
170	Chalcogenide microfiber-assisted silica microfiber for ultrasound detection. Optics Letters, 2020, 45, 1128.	3.3	16
171	Stimulated Brillouin scattering in a tapered dual-core As₂Se₃-PMMA fiber for simultaneous temperature and strain sensing. Optics Letters, 2020, 45, 3301.	3.3	16
172	Compact single-end pumped Brillouin random fiber laser with enhanced distributed feedback. Optics Letters, 2020, 45, 4236.	3.3	16
173	Thermal and acoustic noise insensitive Brillouin random fiber laser based on polarization-maintaining random fiber grating. Optics Letters, 2019, 44, 4195.	3.3	16
174	Signature of structure failure using asymmetric and broadening factors of Brillouin spectrum. IEEE Photonics Technology Letters, 2006, 18, 394-396.	2.5	15
175	The observation of comblike transmission spectrum from a tapered single mode fiber tip. Applied Physics Letters, 2008, 93, 261107.	3.3	15
176	Self-inscribed antisymmetric long-period grating in a dual-core As_2Se_3-PMMA fiber. Optics Express, 2017, 25, 12409.	3.4	15
177	Time-delay signature concealed broadband gain-coupled chaotic laser with fiber random grating induced distributed feedback. Optics and Laser Technology, 2019, 109, 654-658.	4.6	15
178	Micro-Cavity Array With High Accuracy for Fully Distributed Optical Fiber Sensing. Journal of Lightwave Technology, 2019, 37, 927-932.	4.6	15
179	Non-destructive and distributed measurement of optical fiber diameter with nanometer resolution based on coherent forward stimulated Brillouin scattering. Light Advanced Manufacturing, 2021, 2, 1.	5.1	15
180	Gamma-induced attenuation in normal single-mode and multimode, Ge-doped and P-doped optical fibers: A fiber optic dosimeter for low dose levels. Canadian Journal of Physics, 2000, 78, 89-97.	1.1	14

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181	Effect of local PMD and PDL directional correlation on the principal state of polarization vector autocorrelation. Optics Express, 2003, 11, 3141.	3.4	14
182	Characterization of high nonlinearity in Brillouin amplification in optical fibers with applications in fiber sensing and photonic logic. Photonics Research, 2014, 2, 1.	7.0	14
183	High spatial resolution: an integrative review of its developments on the Brillouin optical time- and correlation-domain analysis. Measurement Science and Technology, 2020, 31, 052001.	2.6	14
184	Fiber-Optic Ultrasound Transmitter Based on Multi-Mode Interference in Curved Adhesive Waveguide. IEEE Photonics Technology Letters, 2020, 32, 325-328.	2.5	14
185	Ultra-low frequency dynamic strain detection with laser frequency drifting compensation based on a random fiber grating array. Optics Letters, 2021, 46, 789.	3.3	14
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