

# Xiaoyi Bao

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

390  
papers

8,708  
citations

44  
h-index

78  
g-index

513  
ext. papers

10,939  
ext. citations

2.8  
avg. IF

6.53  
L-index

#	Paper	IF	Citations
390	Recent progress in distributed fiber optic sensors. <i>Sensors</i> , <b>2012</b> , 12, 8601-39	3.8	690
389	Recent progress in Brillouin scattering based fiber sensors. <i>Sensors</i> , <b>2011</b> , 11, 4152-87	3.8	349
388	Differential pulse-width pair BOTDA for high spatial resolution sensing. <i>Optics Express</i> , <b>2008</b> , 16, 21616-35	3.5	298
387	Review: optical fiber sensors for civil engineering applications. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2015</b> , 48, 871-906	3.4	214
386	32-km distributed temperature sensor based on Brillouin loss in an optical fiber. <i>Optics Letters</i> , <b>1993</b> , 18, 1561	3	177
385	Wavelet Denoising Method for Improving Detection Performance of Distributed Vibration Sensor. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 542-544	2.2	173
384	. <i>Journal of Lightwave Technology</i> , <b>1995</b> , 13, 1340-1348	4	173
383	2 cm spatial-resolution and 2 km range Brillouin optical fiber sensor using a transient differential pulse pair. <i>Applied Optics</i> , <b>2012</b> , 51, 1229-35	1.7	145
382	Distributed optical fiber vibration sensor based on spectrum analysis of Polarization-OTDR system. <i>Optics Express</i> , <b>2008</b> , 16, 10240-7	3.3	136
381	Characterization of the Brillouin-loss spectrum of single-mode fibers by use of very short (. <i>Optics Letters</i> , <b>1999</b> , 24, 510-2	3	132
380	High Sensitivity Distributed Vibration Sensor Based on Polarization-Maintaining Configurations of Phase-OTDR. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 1091-1093	2.2	122
379	Modulated pulses based distributed vibration sensing with high frequency response and spatial resolution. <i>Optics Express</i> , <b>2013</b> , 21, 2953-63	3.3	113
378	22-km distributed temperature sensor using Brillouin gain in an optical fiber. <i>Optics Letters</i> , <b>1993</b> , 18, 552-4	3	112
377	Time-division multiplexing-based BOTDA over 100 km sensing length. <i>Optics Letters</i> , <b>2011</b> , 36, 277-9	3	107
376	Single-shot BOTDA based on an optical chirp chain probe wave for distributed ultrafast measurement. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 32	16.7	105
375	Dependence of the Brillouin frequency shift on strain and temperature in a photonic crystal fiber. <i>Optics Letters</i> , <b>2004</b> , 29, 1485-7	3	102
374	Combined distributed temperature and strain sensor based on Brillouin loss in an optical fiber. <i>Optics Letters</i> , <b>1994</b> , 19, 141	3	102

373	Tensile and compressive strain measurement in the lab and field with the distributed Brillouin scattering sensor. <i>Journal of Lightwave Technology</i> , <b>2001</b> , 19, 1698-1704	4	91
372	Long-Range High Spatial Resolution Distributed Temperature and Strain Sensing Based on Optical Frequency-Domain Reflectometry. <i>IEEE Photonics Journal</i> , <b>2014</b> , 6, 1-8	1.8	87
371	Distributed vibration sensing with time-resolved optical frequency-domain reflectometry. <i>Optics Express</i> , <b>2012</b> , 20, 13138-45	3.3	85
370	Observation of narrow linewidth spikes in the coherent Brillouin random fiber laser. <i>Optics Letters</i> , <b>2013</b> , 38, 1866-8	3	82
369	High-resolution DPP-BOTDA over 50 km LEAF using return-to-zero coded pulses. <i>Optics Letters</i> , <b>2010</b> , 35, 1503-5	3	82
368	Extending the Sensing Range of Brillouin Optical Time-Domain Analysis Combining Frequency-Division Multiplexing and In-Line EDFAs. <i>Journal of Lightwave Technology</i> , <b>2012</b> , 30, 1161-1167	4	81
367	Continuous wavelet transform for non-stationary vibration detection with phase-OTDR. <i>Optics Express</i> , <b>2012</b> , 20, 20459-65	3.3	77
366	Truly distributed birefringence measurement of polarization-maintaining fibers based on transient Brillouin grating. <i>Optics Letters</i> , <b>2010</b> , 35, 193-5	3	72
365	Distributed Vibration Sensor Based on Coherent Detection of Phase-OTDR. <i>Journal of Lightwave Technology</i> , <b>2010</b> ,	4	67
364	Coherent probe-pump-based Brillouin sensor for centimeter-crack detection. <i>Optics Letters</i> , <b>2005</b> , 30, 370-2	3	66
363	Distributed temperature sensing based on birefringence effect on transient Brillouin grating in a polarization-maintaining photonic crystal fiber. <i>Optics Letters</i> , <b>2009</b> , 34, 2590-2	3	59
362	High-Spatial-Resolution Fast BOTDA for Dynamic Strain Measurement Based on Differential Double-Pulse and Second-Order Sideband of Modulation. <i>IEEE Photonics Journal</i> , <b>2013</b> , 5, 2600407-2600407	1.8	58
361	Recent Development in the Distributed Fiber Optic Acoustic and Ultrasonic Detection. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 3256-3267	4	56
360	High-Spatial-Resolution Time-Domain Simultaneous Strain and Temperature Sensor Using Brillouin Scattering and Birefringence in a Polarization-Maintaining Fiber. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 1364-1366	2.2	56
359	Theoretical and Experimental Analysis of $\Phi$ -OTDR Based on Polarization Diversity Detection. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 697-700	2.2	55
358	Rayleigh scattering-assisted narrow linewidth Brillouin lasing in cascaded fiber. <i>Optics Letters</i> , <b>2012</b> , 37, 3129-31	3	55
357	Experimental study on stimulated Rayleigh scattering in optical fibers. <i>Optics Express</i> , <b>2010</b> , 18, 22958-63	3.3	52
356	C- and L-band tunable fiber ring laser using a two-taper Mach-Zehnder interferometer filter. <i>Optics Letters</i> , <b>2010</b> , 35, 3354-6	3	50

355	Analytical and numerical solutions for steady state stimulated Brillouin scattering in a single-mode fiber. <i>Optics Communications</i> , <b>1998</b> , 152, 65-70	2	50
354	Highly sensitive in-fiber interferometric refractometer with temperature and axial strain compensation. <i>Optics Express</i> , <b>2013</b> , 21, 9996-10009	3.3	48
353	Differential Brillouin gain for improving the temperature accuracy and spatial resolution in a long-distance distributed fiber sensor. <i>Applied Optics</i> , <b>2009</b> , 48, 4297-301	0.2	48
352	Highly sensitive fiber random-grating-based random laser sensor for ultrasound detection. <i>Optics Letters</i> , <b>2017</b> , 42, 1353-1356	3	47
351	All Fiber Distributed Vibration Sensing Using Modulated Time-Difference Pulses. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 1955-1957	2.2	47
350	Simultaneous refractive index and temperature measurements using a tapered bend-resistant fiber interferometer. <i>Optics Letters</i> , <b>2012</b> , 37, 4567-9	3	46
349	Frequency stabilized coherent Brillouin random fiber laser: theory and experiments. <i>Optics Express</i> , <b>2013</b> , 21, 27155-68	3.3	45
348	In-fiber Mach-Zehnder interferometric refractive index sensors with guided and leaky modes. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 206, 246-251	8.5	44
347	Vibration sensing using a tapered bend-insensitive fiber based Mach-Zehnder interferometer. <i>Optics Express</i> , <b>2013</b> , 21, 3031-42	3.3	44
346	Double-Pass In-Line Fiber Taper Mach-Zehnder Interferometer Sensor. <i>IEEE Photonics Technology Letters</i> , <b>2010</b> , 22, 1750-1752	2.2	44
345	Brillouin scattering spectrum in photonic crystal fiber with a partially germanium-doped core. <i>Optics Letters</i> , <b>2003</b> , 28, 2022-4	3	44
344	Application of spectrum differential integration method in an in-line fiber Mach-Zehnder refractive index sensor. <i>Optics Express</i> , <b>2010</b> , 18, 8135-43	3.3	43
343	Brillouin Spectrum in LEAF and Simultaneous Temperature and Strain Measurement. <i>Journal of Lightwave Technology</i> , <b>2012</b> , 30, 1053-1059	4	42
342	Spatial resolution enhancement of a Brillouin-distributed sensor using a novel signal processing method. <i>Journal of Lightwave Technology</i> , <b>1999</b> , 17, 1179-1183	4	42
341	A Single Longitudinal-Mode Tunable Fiber Ring Laser Based on Stimulated Rayleigh Scattering in a Nonuniform Optical Fiber. <i>Journal of Lightwave Technology</i> , <b>2011</b> , 29, 1802-1807	4	41
340	Tunable Er-doped fiber ring laser with single longitudinal mode operation based on Rayleigh backscattering in single mode fiber. <i>Optics Express</i> , <b>2011</b> , 19, 25981-9	3.3	41
339	Monitoring the distributed impact wave on a concrete slab due to the traffic based on polarization dependence on stimulated Brillouin scattering. <i>Smart Materials and Structures</i> , <b>2008</b> , 17, 015003	3.4	41
338	Effect of the finite extinction ratio of an electro-optic modulator on the performance of distributed probe-pump Brillouin sensor systems. <i>Optics Letters</i> , <b>2003</b> , 28, 1418-20	3	41

337	Distributed brillouin scattering sensor for discrimination of wall-thinning defects in steel pipe under internal pressure. <i>Applied Optics</i> , <b>2004</b> , 43, 1583-8	1.7	40
336	Distributed temperature and strain discrimination with stimulated brillouin scattering and rayleigh backscatter in an optical fiber. <i>Sensors</i> , <b>2013</b> , 13, 1836-45	3.8	39
335	Characterization of the Brillouin grating spectra in a polarization-maintaining fiber. <i>Optics Express</i> , <b>2010</b> , 18, 18960-7	3.3	39
334	Fast state of polarization changes in aerial fiber under different climatic conditions. <i>IEEE Photonics Technology Letters</i> , <b>2001</b> , 13, 1035-1037	2.2	39
333	Using pulse with a dark base to achieve high spatial and frequency resolution for the distributed Brillouin sensor. <i>Optics Letters</i> , <b>2008</b> , 33, 2707-9	3	38
332	How to obtain high spectral resolution of SBS-based distributed sensing by using nanosecond pulses. <i>Optics Express</i> , <b>2006</b> , 14, 2071-8	3.3	38
331	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. <i>Applied Optics</i> , <b>2002</b> , 41, 5105-14	1.7	38
330	Simultaneous distributed strain and temperature measurement. <i>Applied Optics</i> , <b>1999</b> , 38, 5372-7	1.7	38
329	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. <i>Applied Optics</i> , <b>2007</b> , 46, 1482-5	1.7	37
328	Opto-mechanical time-domain analysis based on coherent forward stimulated Brillouin scattering probing. <i>Optica</i> , <b>2020</b> , 7, 176	8.6	37
327	Optical fiber random grating-based multiparameter sensor. <i>Optics Letters</i> , <b>2015</b> , 40, 5514-7	3	36
326	Characterization of evolution of mode coupling in a graded-index polymer optical fiber by using Brillouin optical time-domain analysis. <i>Optics Express</i> , <b>2014</b> , 22, 26510-6	3.3	36
325	Sensitive acoustic vibration sensor using single-mode fiber tapers. <i>Applied Optics</i> , <b>2011</b> , 50, 1873-8	0.2	36
324	Slow and fast light via SBS in optical fibers for short pulses and broadband pump. <i>Optics Express</i> , <b>2006</b> , 14, 12693-703	3.3	36
323	Temperature-compensated distributed hydrostatic pressure sensor with a thin-diameter polarization-maintaining photonic crystal fiber based on Brillouin dynamic gratings. <i>Optics Letters</i> , <b>2016</b> , 41, 4413-6	3	35
322	Simultaneous distributed static and dynamic sensing based on ultra-short fiber Bragg gratings. <i>Optics Express</i> , <b>2018</b> , 26, 17437-17446	3.3	34
321	Recent Developments in Micro-Structured Fiber Optic Sensors. <i>Fibers</i> , <b>2017</b> , 5, 3	3.7	34
320	Structural monitoring by use of a Brillouin distributed sensor. <i>Applied Optics</i> , <b>1999</b> , 38, 2755-9	1.7	34

3 <sup>19</sup>	Frequency Response Enhancement by Periodical Nonuniform Sampling in Distributed Sensing. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 2158-2161	2.2	33
3 <sup>18</sup>	Random spaced index modulation for a narrow linewidth tunable fiber laser with low intensity noise. <i>Optics Letters</i> , <b>2014</b> , 39, 2294-7	3	33
3 <sup>17</sup>	High sensitivity optical fiber current sensor based on polarization diversity and a Faraday rotation mirror cavity. <i>Applied Optics</i> , <b>2011</b> , 50, 924-9	0.2	32
3 <sup>16</sup>	Detection of buckling in steel pipeline and column by the distributed Brillouin sensor. <i>Optical Fiber Technology</i> , <b>2006</b> , 12, 305-311	2.4	32
3 <sup>15</sup>	Simultaneous strain and temperature measurements with polarization-maintaining fibers and their error analysis by use of a distributed Brillouin loss system. <i>Optics Letters</i> , <b>2004</b> , 29, 1342-4	3	32
3 <sup>14</sup>	Suppression of thermal frequency noise in erbium-doped fiber random lasers. <i>Optics Letters</i> , <b>2014</b> , 39, 1038-41	3	31
3 <sup>13</sup>	Sub-MHz ultrahigh-resolution optical spectrometry based on Brillouin dynamic gratings. <i>Optics Letters</i> , <b>2014</b> , 39, 2967-70	3	31
3 <sup>12</sup>	Frequency-shifted light storage via stimulated Brillouin scattering in optical fibers. <i>Optics Letters</i> , <b>2008</b> , 33, 2848-50	3	31
3 <sup>11</sup>	Time evolution of polarization mode dispersion in optical fibers. <i>IEEE Photonics Technology Letters</i> , <b>1998</b> , 10, 1265-1267	2.2	31
3 <sup>10</sup>	Low-noise Brillouin random fiber laser with a random grating-based resonator. <i>Optics Letters</i> , <b>2016</b> , 41, 3197-200	3	30
3 <sup>09</sup>	Single-mode SOA-based 1kHz-linewidth dual-wavelength random fiber laser. <i>Optics Express</i> , <b>2017</b> , 25, 15828-15837	3.3	30
3 <sup>08</sup>	150 km fast BOTDA based on the optical chirp chain probe wave and Brillouin loss scheme. <i>Optics Letters</i> , <b>2018</b> , 43, 4679-4682	3	30
3 <sup>07</sup>	A Novel Distributed Brillouin Sensor Based on Optical Differential Parametric Amplification. <i>Journal of Lightwave Technology</i> , <b>2010</b> , 28, 2621-2626	4	29
3 <sup>06</sup>	Distributed Brillouin fiber sensor for detecting pipeline buckling in an energy pipe under internal pressure. <i>Applied Optics</i> , <b>2006</b> , 45, 3372-7	1.7	29
3 <sup>05</sup>	Compensation of temperature and strain coefficients due to local birefringence using optical frequency domain reflectometry. <i>Optics Communications</i> , <b>2013</b> , 311, 26-32	2	28
3 <sup>04</sup>	Multi-Wavelength Brillouin Random Fiber Laser via Distributed Feedback From a Random Fiber Grating. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 2122-2128	4	27
3 <sup>03</sup>	High-efficiency Brillouin random fiber laser using all-polarization maintaining ring cavity. <i>Optics Express</i> , <b>2017</b> , 25, 11306-11314	3.3	27
3 <sup>02</sup>	Recent progress in optical fiber sensors based on Brillouin scattering at university of Ottawa. <i>Photonic Sensors</i> , <b>2011</b> , 1, 102-117	2.3	27

301	Influence of finite extinction ratio on performance of phase-sensitive optical time-domain reflectometry. <i>Optics Express</i> , <b>2016</b> , 24, 13325-33	3-3	26
300	Tapered-fiber-based refractive index sensor at an air/solution interface. <i>Applied Optics</i> , <b>2012</b> , 51, 7368-7377	3-3	25
299	. <i>Journal of Lightwave Technology</i> , <b>2007</b> , 25, 3610-3618	4	25
298	Time-delay signature suppression in a chaotic semiconductor laser by fiber random grating induced random distributed feedback. <i>Optics Letters</i> , <b>2017</b> , 42, 4107-4110	3	24
297	Four-wave mixing analysis of Brillouin dynamic grating in a polarization-maintaining fiber: theory and experiment. <i>Optics Express</i> , <b>2011</b> , 19, 20785-98	3-3	24
296	Polarization dependence of Brillouin linewidth and peak frequency due to fiber inhomogeneity in single mode fiber and its impact on distributed fiber Brillouin sensing. <i>Optics Express</i> , <b>2012</b> , 20, 6385-99	3-3	24
295	Continuous and Damped Vibration Detection Based on Fiber Diversity Detection Sensor by Rayleigh Backscattering. <i>Journal of Lightwave Technology</i> , <b>2008</b> , 26, 832-838	4	24
294	Temperature dependence of Brillouin frequency, power, and bandwidth in panda, bow-tie, and tiger polarization-maintaining fibers. <i>Optics Letters</i> , <b>2004</b> , 29, 17-9	3	24
293	Statistics of polarization mode dispersion in presence of the polarization dependent loss in single mode fibers. <i>Optics Communications</i> , <b>1999</b> , 169, 69-73	2	24
292	Distributed dynamic strain measurement using optical frequency-domain reflectometry. <i>Applied Optics</i> , <b>2016</b> , 55, 6735-9	0.2	23
291	System optimization of a long-range Brillouin-loss-based distributed fiber sensor. <i>Applied Optics</i> , <b>2010</b> , 49, 5020-5	0.2	23
290	Experimental observation of excess noise in a detuned phase-modulation harmonic mode-locking laser. <i>Physical Review A</i> , <b>2006</b> , 74,	2.6	23
289	Low-Loss Random Fiber Gratings Made With an fs-IR Laser for Distributed Fiber Sensing. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 4697-4702	4	22
288	High-sensitivity distributed transverse load sensor with an elliptical-core fiber based on Brillouin dynamic gratings. <i>Optics Letters</i> , <b>2015</b> , 40, 5003-6	3	22
287	Narrow linewidth low frequency noise Er-doped fiber ring laser based on femtosecond laser induced random feedback. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 101105	3-4	22
286	Statistical distribution of polarization-dependent loss in the presence of polarization-mode dispersion in single-mode fibers. <i>IEEE Photonics Technology Letters</i> , <b>2001</b> , 13, 451-453	2.2	22
285	Linearly polarized low-noise Brillouin random fiber laser. <i>Optics Letters</i> , <b>2017</b> , 42, 739-742	3	22
284	Ultrasound sensing based on an in-fiber dual-cavity Fabry-Perot interferometer. <i>Optics Letters</i> , <b>2019</b> , 44, 3606-3609	3	22

283	Enhancement of optical pulse extinction-ratio using the nonlinear Kerr effect for phase-OTDR. <i>Optics Express</i> , <b>2016</b> , 24, 19424-34	3.3	22
282	Distributed Strain and Temperature Measurement by Brillouin Beat Spectrum. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 1050-1053	2.2	21
281	Polarization mode dispersion and polarization dependent loss for a pulse in single-mode fibers. <i>Journal of Lightwave Technology</i> , <b>2001</b> , 19, 856-860	4	21
280	Bend-insensitive distributed sensing in singlemode-multimode-singlemode optical fiber structure by using Brillouin optical time-domain analysis. <i>Optics Express</i> , <b>2015</b> , 23, 22714-22	3.3	20
279	Multi-parameter sensor based on stimulated Brillouin scattering in inverse-parabolic graded-index fiber. <i>Optics Letters</i> , <b>2016</b> , 41, 1138-41	3	20
278	A High-Speed Distributed Ultra-Weak FBG Sensing System With High Resolution. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 29, 1249-1252	2.2	20
277	Brillouin Scattering Based Distributed Sensors for Structural Applications. <i>Journal of Intelligent Material Systems and Structures</i> , <b>1999</b> , 10, 340-349	2.3	20
276	Random Fabry-Perot resonator-based sub-kHz Brillouin fiber laser to improve spectral resolution in linewidth measurement. <i>Optics Letters</i> , <b>2015</b> , 40, 1920-3	3	19
275	In-line fiber microcantilever vibration sensor. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 211113	3.4	19
274	Optical Fiber Sensors Based on Brillouin Scattering. <i>Optics and Photonics News</i> , <b>2009</b> , 20, 40	1.9	19
273	Picosecond-pulse wavelength conversion based on cascaded second-harmonic generation-difference frequency generation in a periodically poled lithium niobate waveguide. <i>Applied Optics</i> , <b>2006</b> , 45, 5391-403	1.7	19
272	Pulse width dependance of the Brillouin loss spectrum. <i>Optics Communications</i> , <b>1999</b> , 168, 393-398	2	19
271	Tensile strain dependence of the Brillouin gain spectrum in carbon/polyimide coated fibers. <i>Optics Letters</i> , <b>2007</b> , 32, 2565-7	3	18
270	A self-gain random distributed feedback fiber laser based on stimulated Rayleigh scattering. <i>Optics Communications</i> , <b>2012</b> , 285, 1371-1374	2	17
269	Effect of beam waists on performance of the tunable fiber laser based on in-line two-taper Mach-Zehnder interferometer filter. <i>Applied Optics</i> , <b>2011</b> , 50, 5714-20	0.2	17
268	A fourth-order Runge-Kutta in the interaction picture method for numerically solving the coupled nonlinear Schrodinger equation. <i>Optics Express</i> , <b>2010</b> , 18, 8261-76	3.3	17
267	Distributed birefringence measurement with beat period detection of homodyne Brillouin optical time-domain reflectometry. <i>Optics Letters</i> , <b>2012</b> , 37, 3936-8	3	17
266	Polarization-dependent loss-induced pulse narrowing in birefringent optical fiber with finite differential group delay. <i>Journal of Lightwave Technology</i> , <b>2000</b> , 18, 665-667	4	17



265	Gamma ray radiation induced visible light absorption in P-doped silica fibers at low dose levels. <i>Radiation Measurements</i> , <b>1999</b> , 30, 725-733	1.5	17
264	Measuring strain fields in FRP strengthened RC shear walls using a distributed fiber optic sensor. <i>Engineering Structures</i> , <b>2017</b> , 152, 359-369	4.7	16
263	. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 490-493	2.2	16
262	Tunable Fabry-Perot filter using hollow-core photonic bandgap fiber and micro-fiber for a narrow-linewidth laser. <i>Optics Express</i> , <b>2011</b> , 19, 9617-25	3.3	16
261	Spatial resolution analysis for discrete Fourier transform-based Brillouin optical time domain reflectometry. <i>Measurement Science and Technology</i> , <b>2009</b> , 20, 025202	2	16
260	Slow light of subnanosecond pulses via stimulated Brillouin scattering in nonuniform fibers. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	16
259	Large-scale multiplexing of a FBG array with randomly varied characteristic parameters for distributed sensing. <i>Optics Letters</i> , <b>2018</b> , 43, 5259-5262	3	16
258	Multi-parameter sensor based on random fiber lasers. <i>AIP Advances</i> , <b>2016</b> , 6, 095009	1.5	16
257	1200°C high-temperature distributed optical fiber sensing using Brillouin optical time domain analysis. <i>Applied Optics</i> , <b>2016</b> , 55, 5471-8	0.2	15
256	Long-Range and High-Spatial-Resolution Distributed Birefringence Measurement of a Polarization-Maintaining Fiber Based on Brillouin Dynamic Grating. <i>Journal of Lightwave Technology</i> , <b>2013</b> , 31, 2681-2686	4	15
255	Prediction of the pipe buckling by using broadening factor with distributed Brillouin fiber sensors. <i>Optical Fiber Technology</i> , <b>2008</b> , 14, 109-113	2.4	15
254	Enhancement of stimulated Brillouin scattering of higher-order acoustic modes in single-mode optical fiber. <i>Optics Letters</i> , <b>2005</b> , 30, 2685-7	3	15
253	Theoretical and experimental study of the dynamics of polarization-mode dispersion. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 468-470	2.2	15
252	Distributed temperature sensor based on Brillouin loss in an optical fibre for transient threshold monitoring. <i>Canadian Journal of Physics</i> , <b>1996</b> , 74, 1-3	1.1	15
251	Chromatic-dispersion measurement by modulation phase-shift method using a Kerr phase-interrogator. <i>Optics Express</i> , <b>2014</b> , 22, 22314-9	3.3	14
250	Distributed Brillouin sensor system based on offset locking of two distributed feedback lasers. <i>Applied Optics</i> , <b>2008</b> , 47, 99-102	1.7	14
249	Criterion for subpulse-length resolution and minimum frequency shift in distributed Brillouin sensors. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 1504-1506	2.2	14
248	Generating a high-extinction-ratio pulse from a phase-modulated optical signal with a dispersion-imbalanced nonlinear loop mirror. <i>Optics Letters</i> , <b>2006</b> , 31, 1032-4	3	14

247	Polarization effects in aerial fibers. <i>Optical Fiber Technology</i> , <b>2005</b> , 11, 1-19	2.4	14
246	System outage probability due to the combined effect of PMD and PDL. <i>Journal of Lightwave Technology</i> , <b>2002</b> , 20, 1805-1808	4	14
245	Multiwavelength Coherent Brillouin Random Fiber Laser With Ultrahigh Optical Signal-to-Noise Ratio. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2018</b> , 24, 1-8	3.8	13
244	Distributed vibration/acoustic sensing with high frequency response and spatial resolution based on time-division multiplexing. <i>Optics Communications</i> , <b>2014</b> , 331, 287-290	2	13
243	Thermal and mechanical properties of tapered single mode fiber measured by OFDR and its application for high-sensitivity force measurement. <i>Optics Express</i> , <b>2012</b> , 20, 14779-88	3.3	13
242	The observation of comblike transmission spectrum from a tapered single mode fiber tip. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 261107	3.4	13
241	Influence of transient phonon relaxation on the Brillouin loss spectrum of nanosecond pulses. <i>Optics Letters</i> , <b>2006</b> , 31, 888-90	3	13
240	Simultaneous strain and temperature monitoring of the composite cure with a Brillouin-scattering-based distributed sensor. <i>Optical Engineering</i> , <b>2002</b> , 41, 1496	1.1	13
239	Gamma-induced attenuation in normal single-mode and multimode, Ge-doped and P-doped optical fibers: A fiber optic dosimeter for low dose levels. <i>Canadian Journal of Physics</i> , <b>2000</b> , 78, 89-97	1.1	13
238	Chalcogenide microfiber-assisted silica microfiber for ultrasound detection. <i>Optics Letters</i> , <b>2020</b> , 45, 1128-1131	3	13
237	Brillouin optical time-domain analysis via compressed sensing. <i>Optics Letters</i> , <b>2018</b> , 43, 5496-5499	3	13
236	Random Brillouin fiber laser for tunable ultra-narrow linewidth microwave generation. <i>Optics Letters</i> , <b>2016</b> , 41, 4839-4842	3	13
235	Group-Delay-Based Temperature Sensing in Linearly-Chirped Fiber Bragg Gratings Using a Kerr Phase-Interrogator. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 381-385	4	12
234	. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 2058-2061	2.2	12
233	Self-inscribed antisymmetric long-period grating in a dual-core AsSe-PMMA fiber. <i>Optics Express</i> , <b>2017</b> , 25, 12409-12414	3.3	12
232	Distributed Brillouin sensor for structural health monitoring. <i>Canadian Journal of Civil Engineering</i> , <b>2007</b> , 34, 291-297	1.3	12
231	Signature of structure failure using asymmetric and broadening factors of Brillouin spectrum. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 394-396	2.2	12
230	Polarization-mode dispersion measurement in a system with polarization-dependent loss or gain. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 206-208	2.2	12

229	Two-photon absorption and resonant non-phase-matched second-harmonic generation in CdSe. <i>Optical and Quantum Electronics</i> , <b>1990</b> , 22, 351-367	2.4	12
228	Thermal and acoustic noise insensitive Brillouin random fiber laser based on polarization-maintaining random fiber grating. <i>Optics Letters</i> , <b>2019</b> , 44, 4195-4198	3	12
227	Chalcogenide Taper and Its Nonlinear Effects and Sensing Applications. <i>IScience</i> , <b>2020</b> , 23, 100802	6.1	12
226	Study of BOTDR stability for dynamic strain measurement in piezoelectric vibration. <i>Photonic Sensors</i> , <b>2016</b> , 6, 199-208	2.3	11
225	Truly random bit generation based on a novel random Brillouin fiber laser. <i>Optics Letters</i> , <b>2015</b> , 40, 5415-8	3	11
224	Micro-Cavity Array With High Accuracy for Fully Distributed Optical Fiber Sensing. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 927-932	4	11
223	High-Sensitivity Temperature and Strain Measurement in Dual-Core Hybrid Tapers. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 1155-1158	2.2	11
222	High-speed demodulation of weak fiber Bragg gratings based on microwave photonics and chromatic dispersion. <i>Optics Letters</i> , <b>2018</b> , 43, 2430-2433	3	10
221	Characterization of high nonlinearity in Brillouin amplification in optical fibers with applications in fiber sensing and photonic logic. <i>Photonics Research</i> , <b>2014</b> , 2, 1	6	10
220	Displacement sensor based on Kerr induced phase-modulation of orthogonally polarized sinusoidal optical signals. <i>Optics Express</i> , <b>2014</b> , 22, 9095-100	3.3	10
219	Strain monitoring in a reinforced concrete slab sustaining service loads by distributed Brillouin fibre optic sensors. <i>Canadian Journal of Civil Engineering</i> , <b>2010</b> , 37, 1341-1349	1.3	10
218	Subpeaks in the Brillouin loss spectra of distributed fiber-optic sensors. <i>Optics Letters</i> , <b>2005</b> , 30, 1099-1031	3	10
217	Effect of Brillouin slow light on distributed Brillouin fiber sensors. <i>Optics Letters</i> , <b>2006</b> , 31, 2698-700	3	10
216	Strain dependence of Brillouin frequency, intensity, and bandwidth in polarization-maintaining fibers. <i>Optics Letters</i> , <b>2004</b> , 29, 1605-7	3	10
215	Advances in distributed sensing using Brillouin scattering <b>1998</b> ,		10
214	Combined compression-tension strain sensor over 1 $\mu\text{m}$ -20 $\text{m}\mu$ by using non-uniform multiple-core-offset fiber. <i>Optics Letters</i> , <b>2020</b> , 45, 3143-3146	3	10
213	Tapered fiber based Brillouin random fiber laser and its application for linewidth measurement. <i>Optics Express</i> , <b>2016</b> , 24, 28353-28360	3.3	10
212	Fiber-Optic Ultrasound Transmitter Based on Multi-Mode Interference in Curved Adhesive Waveguide. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 32, 325-328	2.2	9

211	Simple approach to determining the minimum measurable stress length and stress measurement accuracy in distributed Brillouin sensing. <i>Applied Optics</i> , <b>2005</b> , 44, 5304-10	1.7	9
210	A new fitting method for spectral characterization of Brillouin-based distributed sensors <b>2003</b> ,		9
209	Automated system for distributed sensing <b>1998</b> , 3330, 315		9
208	22 km distributed strain sensor using Brillouin loss in an optical fibre. <i>Optics Communications</i> , <b>1994</b> , 104, 298-302	2	9
207	Simultaneous Measurement of Temperature and Strain in a Dual-Core As <sub>2</sub> Se <sub>3</sub> -PMMA Taper. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 79-82	2.2	9
206	All-optical intensity fluctuation magnification using Kerr effect. <i>Optics Express</i> , <b>2020</b> , 28, 3789-3794	3.3	9
205	Stimulated Brillouin scattering in a tapered dual-core AsSe-PMMA fiber for simultaneous temperature and strain sensing. <i>Optics Letters</i> , <b>2020</b> , 45, 3301-3304	3	9
204	High spatial resolution: an integrative review of its developments on the Brillouin optical time- and correlation-domain analysis. <i>Measurement Science and Technology</i> , <b>2020</b> , 31, 052001	2	9
203	Computational distributed fiber-optic sensing. <i>Optics Express</i> , <b>2019</b> , 27, 17069-17079	3.3	8
202	. <i>IEEE Photonics Journal</i> , <b>2015</b> , 7, 1-7	1.8	8
201	Multiwavelength Single-Longitudinal-Mode Brillouin Erbium Fiber Laser Sensor for Temperature Measurements With Ultrahigh Resolution. <i>IEEE Photonics Journal</i> , <b>2015</b> , 7, 1-9	1.8	8
200	Distributed Mode Coupling Measurement Along Tapered Single-Mode Fibers With Optical Frequency-Domain Reflectometry. <i>Journal of Lightwave Technology</i> , <b>2012</b> , 30, 1499-1508	4	8
199	Tunable ring laser using a tapered single mode fiber tip. <i>Applied Optics</i> , <b>2009</b> , 48, 6827-31	0.2	8
198	Combined PMD-PDL effects on BERs in simplified optical systems: an analytical approach. <i>Optics Express</i> , <b>2007</b> , 15, 2106-19	3.3	8
197	Simple method to identify the spatial location better than the pulse length with high strain accuracy. <i>Optics Letters</i> , <b>2005</b> , 30, 2215-7	3	8
196	80-GHz pulse generation from a repetition-rate-doubled FM mode-locking fiber laser. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 300-302	2.2	8
195	Ultra-short pulse operation of all-optical fiber passively mode-locked ytterbium laser. <i>Optics Express</i> , <b>2006</b> , 14, 4935-45	3.3	8
194	. <i>Journal of Lightwave Technology</i> , <b>2006</b> , 24, 3698-3708	4	8

193	40-GHz transform-limited pulse generation from FM oscillation fiber laser with external cavity chirp compensation. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 1631-1633	2.2	8
192	A dynamical polarization mode dispersion emulator. <i>IEEE Photonics Technology Letters</i> , <b>2003</b> , 15, 534-536.	2	8
191	Effect of local PMD and PDL directional correlation on the principal state of polarization vector autocorrelation. <i>Optics Express</i> , <b>2003</b> , 11, 3141-6	3.3	8
190	Experimental study on relaxation oscillation in a detuned FM harmonic mode-locked Er-doped fiber laser. <i>Optics Communications</i> , <b>2005</b> , 245, 371-376	2	8
189	High efficiency Brillouin random fiber laser with replica symmetry breaking enabled by random fiber grating. <i>Optics Express</i> , <b>2021</b> , 29, 6532-6541	3.3	8
188	High-Efficiency Random Fiber Laser Based on Strong Random Fiber Grating for MHz Ultrasonic Sensing. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 5885-5892	4	7
187	All-optical NAND/NOT/AND/OR logic gates based on combined Brillouin gain and loss in an optical fiber. <i>Applied Optics</i> , <b>2013</b> , 52, 3404-11	1.7	7
186	Polarization-decoupled four-wave mixing based on stimulated Brillouin scattering in a polarization-maintaining fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2013</b> , 30, 821	1.7	7
185	Characterization of Brillouin fiber generator and amplifier for optimized working condition of distributed sensors. <i>Optical Fiber Technology</i> , <b>2009</b> , 15, 304-309	2.4	7
184	Direct evidence of tilted Bragg grating azimuthal radiation mode coupling mechanisms. <i>Optics Express</i> , <b>2009</b> , 17, 14075-87	3.3	7
183	Brillouin spectral deconvolution method for centimeter spatial resolution and high-accuracy strain measurement in Brillouin sensors. <i>Optics Letters</i> , <b>2005</b> , 30, 705-7	3	7
182	Theoretical study of the effect of slow light on BOTDA spatial resolution. <i>Optics Express</i> , <b>2006</b> , 14, 10351-8	3.3	7
181	The use of importance sampling in the study of polarization mode dispersion with polarization dependent loss. <i>Optics Communications</i> , <b>2003</b> , 215, 303-307	2	7
180	Distributed strain sensing for structural monitoring applications. <i>Canadian Journal of Civil Engineering</i> , <b>2000</b> , 27, 873-879	1.3	7
179	Pulsewidth compression in optical components with polarization mode dispersion using polarization controls. <i>Journal of Lightwave Technology</i> , <b>2001</b> , 19, 830-836	4	7
178	Simultaneous generation of guided-acoustic-wave Brillouin scattering and stimulated-Brillouin-scattering in hybrid AsSe-PMMA microtapers. <i>Optics Express</i> , <b>2019</b> , 27, 13734-13743 <sup>3.3</sup>	3.3	7
177	Mode characteristic manipulation of random feedback interferometers in Brillouin random fiber laser. <i>Optics Letters</i> , <b>2020</b> , 45, 678-681	3	7
176	Distributed time delay sensing in a random fiber grating array based on chirped pulse BOTDR. <i>Optics Letters</i> , <b>2020</b> , 45, 3423-3426	3	7

175	Compact single-end pumped Brillouin random fiber laser with enhanced distributed feedback. <i>Optics Letters</i> , <b>2020</b> , 45, 4236-4239	3	7
174	Strain measurement range enhanced chirped pulse BOTDR for distributed static and dynamic strain measurement based on random fiber grating array. <i>Optics Letters</i> , <b>2020</b> , 45, 6110	3	7
173	High birefringent Brillouin frequency shifts in a single-mode AsSe-PMMA microtaper induced by a transverse load. <i>Optics Letters</i> , <b>2019</b> , 44, 4789-4792	3	7
172	Time-delay signature concealed broadband gain-coupled chaotic laser with fiber random grating induced distributed feedback. <i>Optics and Laser Technology</i> , <b>2019</b> , 109, 654-658	4.2	7
171	Chromatic-Dispersion Monitor Based on a Differential Phase-Shift Method Using a Kerr Phase-Interrogator. <i>IEEE Photonics Journal</i> , <b>2015</b> , 7, 1-6	1.8	6
170	Phase-shifted Brillouin dynamic gratings using single pump phase-modulation: proof of concept. <i>Optics Express</i> , <b>2016</b> , 24, 11218-31	3.3	6
169	Polarization averaged short-time Fourier transform technique for distributed fiber birefringence characterization using Brillouin gain. <i>Applied Optics</i> , <b>2012</b> , 51, 4359-69	1.7	6
168	Time evolution of polarization-mode dispersion for aerial and buried cables		6
167	Stabilized Phase-Modulated Rational Harmonic Mode-Locking Soliton Fiber Laser. <i>IEEE Photonics Technology Letters</i> , <b>2007</b> , 19, 393-395	2.2	6
166	Repetition-rate-multiplication in actively mode-locking fiber laser by using phase modulated fiber loop mirror. <i>IEEE Journal of Quantum Electronics</i> , <b>2005</b> , 41, 1285-1292	2	6
165	Effect of optical phase on a distributed Brillouin sensor at centimeter spatial resolution. <i>Optics Letters</i> , <b>2005</b> , 30, 827-9	3	6
164	Accurate strain detection and localisation with the distributed Brillouin sensor based on phenomenological signal processing approach <b>2006</b> ,		6
163	Distributed Brillouin temperature sensing in photonic crystal fiber. <i>Smart Materials and Structures</i> , <b>2005</b> , 14, S8-S11	3.4	6
162	The measurement of fast state of polarization changes in aerial fiber		6
161	Trench-assisted multimode fiber used in Brillouin optical time domain sensors. <i>Optics Express</i> , <b>2019</b> , 27, 11396-11405	3.3	6
160	Nonlinear resolution enhancement of an FBG based temperature sensor using the Kerr effect. <i>Optics Express</i> , <b>2020</b> , 28, 39181-39188	3.3	6
159	Ultracompact twisted silica taper for 20 kHz to 94 MHz ultrasound sensing. <i>Optics Letters</i> , <b>2020</b> , 45, 3889-3892	3	6
158	Real-time physical random bit generation at Gbps based on random fiber lasers. <i>Optics Letters</i> , <b>2017</b> , 42, 4796-4799	3	6

157	Power Thresholds and Pump Depletion in Brillouin Fiber Amplifiers. <i>The Open Optics Journal</i> , <b>2008</b> , 2, 1-5		6
156	Tapered Assisted Dual Micro-Bubble-Device for Ultrasound Sensor. <i>IEEE Photonics Technology Letters</i> , <b>2020</b> , 32, 1219-1222	2.2	6
155	Recent Advancements in Rayleigh Scattering-Based Distributed Fiber Sensors <b>2021</b> , 2021, 1-17		6
154	Review: distributed time-domain sensors based on Brillouin scattering and FWM enhanced SBS for temperature, strain and acoustic wave detection. <i>PhotonIX</i> , <b>2021</b> , 2, 14	19	6
153	10 kHz-34 MHz ultrasound detection based on a dual-core hybrid taper. <i>APL Photonics</i> , <b>2019</b> , 4, 110805	5.2	6
152	Ultra-low frequency dynamic strain detection with laser frequency drifting compensation based on a random fiber grating array. <i>Optics Letters</i> , <b>2021</b> , 46, 789-792	3	6
151	Approach for temperature-insensitive strain measurement using a dual-core AsSe-PMMA taper. <i>Optics Letters</i> , <b>2018</b> , 43, 1523-1526	3	6
150	Sensitivity enhancement beyond the wavelength limit in a novel sub-micron displacement sensor. <i>Optics Express</i> , <b>2015</b> , 23, 17838-44	3.3	5
149	Linearly Polarized Multi-Wavelength Fiber Laser Comb via Brillouin Random Lasing Oscillation. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 1005-1008	2.2	5
148	Introduction to the Issue on Photonics for Sensing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2017</b> , 23, 5-7	3.8	5
147	High-Speed Random Bit Generation via Brillouin Random Fiber Laser With Non-Uniform Fibers. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 29, 1352-1355	2.2	5
146	Polarization dependent Brillouin frequency shift fluctuation induced by low birefringence in single mode fiber. <i>Optics Express</i> , <b>2017</b> , 25, 31896-31905	3.3	5
145	Effects of polarization on stimulated Brillouin scattering in a birefringent optical fiber. <i>Photonics Research</i> , <b>2014</b> , 2, 126	6	5
144	Polarization-maintaining property of tapered polarization-maintaining fibers. <i>Applied Optics</i> , <b>2013</b> , 52, 1550-4	1.7	5
143	Partial bit delay correlative modulation used to improve the dispersion tolerance of an optical duobinary system. <i>Optics Express</i> , <b>2008</b> , 16, 11344-53	3.3	5
142	Fast state of polarization and PMD drift in submarine fibers. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 1034-1036	2.2	5
141	Strain measurement of the steel beam with the distributed Brillouin scattering sensor <b>2001</b> ,		5
140	Impact of chromatic dispersion on the system limitation due to polarization mode dispersion. <i>IEEE Photonics Technology Letters</i> , <b>2000</b> , 12, 47-49	2.2	5

139	Recent progress in distributed fiber optic sensors based upon Brillouin scattering <b>1995</b> , 2507, 175		5
138	Characteristics of Brillouin gain based distributed temperature sensors. <i>Electronics Letters</i> , <b>1993</b> , 29, 1543	1.1	5
137	Unveiling delay-time-resolved phase noise statistics of narrow-linewidth laser via coherent optical time domain reflectometry. <i>Optics Express</i> , <b>2020</b> , 28, 6719-6733	3.3	5
136	Wide-range strain sensor based on Brillouin frequency and linewidth in an AsSe-PMMA hybrid microfiber. <i>Optics Express</i> , <b>2020</b> , 28, 22933-22945	3.3	5
135	Dynamic detection of acoustic wave generated by polarization maintaining Brillouin random fiber laser. <i>APL Photonics</i> , <b>2020</b> , 5, 096101	5.2	5
134	Ultrafast Laser Processing of Optical Fibers for Sensing Applications. <i>Sensors</i> , <b>2021</b> , 21,	3.8	5
133	Spectral Polarization Spreading Behaviors in Stimulated Brillouin Scattering of Fibers. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-11	1.8	4
132	Approach for Temperature-Sensitivity Enhancement in a Tapered Dual-Core As <sub>2</sub> Se <sub>3</sub> -PMMA Fiber With an Antisymmetric Long-Period Grating. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 2734-2738	4	4
131	Refractive index sensing based on Brillouin scattering in a micro fiber. <i>Applied Physics Express</i> , <b>2019</b> , 12, 082013	2.4	4
130	Refractive index sensing based on Mach-Zehnder interferometer formed by three cascaded single-mode fiber tapers <b>2011</b> ,		4
129	Lateral Stress Detection Using a Tapered Fiber Mach-Zehnder Interferometer. <i>IEEE Photonics Technology Letters</i> , <b>2012</b> , 24, 2038-2041	2.2	4
128	High spatial resolution and long-distance BOTDA using differential Brillouin gain in a dispersion shifted fiber <b>2009</b> ,		4
127	Accurate BER evaluation for lumped DPSK and OOK systems with PMD and PDL. <i>Optics Express</i> , <b>2007</b> , 15, 9418-33	3.3	4
126	Polarization dependent loss vector measurement in a system with polarization mode dispersion. <i>Optical Fiber Technology</i> , <b>2006</b> , 12, 251-254	2.4	4
125	Polarization-dependent loss autocorrelation in the presence of combined polarization-mode dispersion and polarization-dependent losses in optical fibers <b>2003</b> , 5260, 377		4
124	Temperature and strain measurements using the power, line-width, shape, and frequency shift of the Brillouin loss spectrum <b>2002</b> , 4920, 311		4
123	Anomalous pulse-width narrowing with first-order compensation of polarization mode dispersion. <i>Optics Letters</i> , <b>2000</b> , 25, 884-6	3	4
122	Recent progress in experiments on a Brillouin loss-based distributed sensor <b>1994</b> ,		4



121	The Measurement of Fast State of Polarization Changes in Aerial Fiber <b>2001</b> ,		4
120	Frequency-stabilized Brillouin random fiber laser enabled by self-inscribed transient population grating.. <i>Optics Letters</i> , <b>2022</b> , 47, 150-153	3	4
119	Non-destructive and distributed measurement of optical fiber diameter with nanometer resolution based on coherent forward stimulated Brillouin scattering. <i>Light Advanced Manufacturing</i> , <b>2021</b> , 2, 1-12 <sup>1</sup>		4
118	Distributed High Temperature Monitoring of SMF under Electrical Arc Discharges Based on OFDR. <i>Sensors</i> , <b>2020</b> , 20,	3.8	4
117	Detection of Thermal Strain in Steel Rails with BOTDA. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 2013	2.6	4
116	Orthogonal polarization switchable lasing based on axial polarization pulling of SBS in polarization-maintaining fiber. <i>Optics Express</i> , <b>2018</b> , 26, 28385-28395	3.3	4
115	Dispersion effects of high-order-mode fiber on temperature and axial strain discrimination. <i>Photonic Sensors</i> , <b>2015</b> , 5, 224-234	2.3	3
114	Fiber-Optic Sensor Based on Core-Offset Fused Unequal-Length Fiber Segments to Improve Ultrasound Detection Sensitivity. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 9148-9154	4	3
113	Distributed group birefringence measurement in a polarization-maintaining fiber using optical frequency-domain reflectometry. <i>Optics Communications</i> , <b>2015</b> , 345, 62-66	2	3
112	Characterization of Brillouin Gratings in Optical Fibers and Their Applications <b>2012</b> ,		3
111	Improved FBG Polarimeter Design Evaluated Using VCM Extension to Elliptical Polarization. <i>Journal of Lightwave Technology</i> , <b>2010</b> , 28, 1032-1041	4	3
110	Signal-to-noise ratio improvement in Brillouin sensing <b>2009</b> ,		3
109	High performance Brillouin strain and temperature sensor based on frequency division multiplexing using nonuniform fibers over 75km fiber <b>2011</b> ,		3
108	Online monitoring of the distributed lateral displacement in large AC power generators using a high spatial resolution Brillouin optical fiber sensor. <i>Smart Materials and Structures</i> , <b>2011</b> , 20, 115001	3.4	3
107	Time evolution of PMD due to tides and sun radiation on submarine fibers. <i>Optical Fiber Technology</i> , <b>2007</b> , 13, 62-66	2.4	3
106	Simultaneous distributed Brillouin strain and temperature sensor with photonic crystal fiber <b>2004</b> , 5384, 13		3
105	Autocorrelation function of the principal State of polarization vector for systems having PMD. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 1489-1491	2.2	3
104	Application of a mid-infrared fiber bundle in remote measurement of gas concentrations in a chemical vapor deposition chamber. <i>Applied Optics</i> , <b>2000</b> , 39, 1112-7	1.7	3

103	Optical fibers for the application of a fiber radiation sensor <b>1999</b> ,		3
102	Stability criteria for pulse solution of a synchronously pumped dye laser. <i>Optics Letters</i> , <b>1987</b> , 12, 251-3	3	3
101	Brillouin Scattering Based Distributed Sensors for Structural Applications. <i>Journal of Intelligent Material Systems and Structures</i> , <b>1999</b> , 10, 340-349	2.3	3
100	Multi-wavelength Coherent Brillouin Random Fiber Laser with High Optical Signal-to-Noise Ratio <b>2017</b> ,		3
99	Random Fiber Gratings Fabricated Using Fs-IR Laser for Distributed Temperature Sensor Application <b>2018</b> ,		3
98	Single-shot chirped pulse BOTDA for static and dynamic strain sensing. <i>Optics Letters</i> , <b>2021</b> , 46, 5774-5777	3	3
97	State of polarisation bias in aerial fibres. <i>Electronics Letters</i> , <b>2002</b> , 38, 1086	1.1	3
96	All-optical pulse peak power stabilization and its impact in phase-OTDR vibration detection. <i>OSA Continuum</i> , <b>2021</b> , 4, 1430	1.4	3
95	Temperature-Insensitive Strain Sensor Based on Microsphere-Embedded Core-Offset Fiber With High Sensitivity. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 39, 2547-2551	4	3
94	Development of the Distributed Brillouin Sensors for Health Monitoring of Civil Structures <b>2008</b> , 101-125		3
93	Precision Dynamic Sensing With Ultra-Weak Fiber Bragg Grating Arrays by Wavelength to Frequency Transform. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 3526-3531	4	2
92	Multi-parameter sensing based on the stimulated Brillouin scattering of higher-order acoustic modes in OAM fiber <b>2015</b> ,		2
91	Study of chromatic dispersion impact on nonlinear interaction between two sinusoidally modulated optical signals using theory of four-wave mixing. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, 110	1.7	2
90	OTDR and OFDR for distributed multi-parameter sensing <b>2014</b> ,		2
89	Impacts of Kerr effect and fiber dispersion on long-range Brillouin optical time-domain analysis systems <b>2012</b> ,		2
88	Vibration monitoring with high frequency response based on coherent phase-sensitive OTDR method <b>2011</b> ,		2
87	100-km sensing range Brillouin optical time domain analysis based on time-division multiplexing <b>2011</b> ,		2
86	Distributed fiber beat length, birefringence and differential group delay measurement using BOTDA technique <b>2011</b> ,		2

85	Fiber-optic Mach-Zehnder interferometer as a high-precision temperature sensor: effects of temperature fluctuations on surface biosensing. <i>Applied Optics</i> , <b>2010</b> , 49, 5682-5	0.2	2
84	The non-uniformity and dispersion in SBS-based fiber sensors <b>2012</b> ,		2
83	Polarization dynamics in optical ground wire network. <i>Applied Optics</i> , <b>2009</b> , 48, 2214-9	0.2	2
82	Pushing the limit of the distributed Brillouin sensors for the sensing length and the spatial resolution <b>2010</b> ,		2
81	Crack detection in reinforced concrete beam by use of distributed Brillouin fiber sensor <b>2008</b> ,		2
80	Using Nonuniform Fiber to Generate Slow Light via SBS. <i>Research Letters in Optics</i> , <b>2008</b> , 2008, 1-4		2
79	"Rational harmonic mode-locking" in a phase-modulated fiber laser. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 1332-1334	2.2	2
78	PMD-PDL Emulator Designs for Low Interchannel Correlation. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 2362-2364	2.2	2
77	Computer-controlled harmonic FM mode-locking of 40-GHz repetition-rate fiber laser <b>2004</b> , 5579, 736		2
76	Development of the offset-locking-based distributed sensor <b>2004</b> ,		2
75	A study on the jacket effect of fiber optic sensors <b>2004</b> , 5579, 43		2
74	Field Measurements of Polarization Mode Dispersion. <i>Fiber and Integrated Optics</i> , <b>1999</b> , 18, 49-59	0.8	2
73	Limitations of first-order PMD compensation techniques in the presence of chromatic dispersion. <i>Optics Communications</i> , <b>1999</b> , 171, 15-21	2	2
72	U-shape core-offset fiber sensor with submicrostrain resolution over a 35 millistrain range.. <i>Applied Optics</i> , <b>2022</b> , 61, 1150-1155	1.7	2
71	High extinction ratio optical pulse characterization method via single-photon counting. <i>Applied Optics</i> , <b>2021</b> , 60, 20-23	1.7	2
70	Distributed static and dynamic detection of an acoustic wave in a Brillouin random fiber laser. <i>Photonics Research</i> , <b>2021</b> , 9, 772	6	2
69	Frequency sweep extension using the Kerr effect for static temperature measurement range enhancement in Chirped Pulse EOTDR. <i>Optics Express</i> , <b>2021</b> , 29, 23202-23212	3.3	2
68	Multi-parameter fiber optic sensors based on fiber random grating <b>2017</b> ,		1

67	Random Fiber Grating Characterization Based on OFDR and Transfer Matrix Method. <i>Sensors</i> , <b>2020</b> , 20,	3.8	1
66	Fabrication of Multiple Superimposed Fiber Bragg Gratings for Multiple Parameter Sensing <b>2020</b> , 4, 1-4		1
65	Fabrication of Chirped Fiber Bragg Gratings in a Non-Uniform Single-Core As <sub>2</sub> Se <sub>3</sub> -PMMA Tapered Fiber. <i>Journal of Lightwave Technology</i> , <b>2020</b> , 1-1	4	1
64	Micro-structured fibers and their applications in fiber-optic sensors and random fiber lasers. <i>Canadian Journal of Physics</i> , <b>2018</b> , 96, 359-365	1.1	1
63	Calculation Method of Brillouin Power and Frequency Coefficients for Fiber Strain and Temperature Based on Multi-Layer Segmentation. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 4947-4956 <sup>4</sup>		1
62	Dispersion characterization of group birefringence in polarization-maintaining fiber using a Kerr phase-interrogator <b>2015</b> ,		1
61	Tapered polarization-maintaining fiber sensor based on analysis of polarization evolution <b>2014</b> ,		1
60	Real distributed vibration sensing with high frequency response based on pulse pair <b>2014</b> ,		1
59	High-resolution high-sensitivity and truly distributed optical frequency domain reflectometry for structural crack detection <b>2014</b> ,		1
58	Distributed birefringence, strain and temperature measurement by homodyne BOTDR <b>2012</b> ,		1
57	Discrimination of temperature and axial strain using dispersion effects of high-order-mode fibers <b>2013</b> ,		1
56	Characterization of Optical Fibers <b>2011</b> , 815-827		1
55	High performance BOTDA for long range sensing <b>2011</b> ,		1
54	Simultaneous temperature and strain measurement with bandwidth and peak of the Brillouin spectrum in LEAF fiber <b>2011</b> ,		1
53	Characteristics of stimulated Rayleigh scattering in optical fibers <b>2011</b> ,		1
52	Moment-Generating Function Method Used to Evaluate the Performance of a Linear Optical Communication System. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 3399-3409	4	1
51	12-km distributed fiber sensor based on differential pulse-width pair BOTDA <b>2009</b> ,		1
50	Distributed fiber sensors based on stimulated Brillouin scattering with centimeter spatial resolution <b>2008</b> ,		1

49	Effect of temperature on Brillouin gain spectrum and aging behavior in carbon/polyimide coated fiber <b>2008</b> ,		1
48	BOTDA Location Accuracy in Depleted Pump Regime in the Presence of Brillouin Slow Light <b>2006</b> , ThE39		1
47	PRBS data delay in an all fiber slow light system based on SBS effect, NRZ vs. RZ <b>2007</b> ,		1
46	Development and performance comparison of two different approaches for stabilizing a harmonic mode-locked fiber laser at 40 GHz. <i>Applied Optics</i> , <b>2006</b> , 45, 3826-30	1.7	1
45	Centimeter spatial resolution of distributed optical fiber sensor for structural health monitoring <b>2004</b> , 5579, 1		1
44	Eye diagram evaluation in single mode fibers having polarization mode dispersion, polarization dependent loss and chromatic dispersion		1
43	Simultaneous strain and temperature measurement in PM fibers using Brillouin frequency, power, and bandwidth <b>2004</b> ,		1
42	Analytic optical eye diagram evaluation in the presence of polarization-mode dispersion, polarization-dependent loss, and chromatic dispersion in dynamic single-mode fiber communication networks. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2004</b> , 21, 1860	1.7	1
41	Investigation of Brillouin effects in carbon coating single-mode fiber using for inspection of pipeline buckling <b>2005</b> , 6004, 27		1
40	Pulse narrowing due to optical interference in fiber-optic systems with polarization-dependent signal reception. <i>Optics Communications</i> , <b>2000</b> , 184, 7-12	2	1
39	Acoustic wave coupling in dual-wavelength orthogonal polarized Brillouin random fiber laser using polarization-maintaining fiber. <i>Journal of Lightwave Technology</i> , <b>2022</b> , 1-1	4	1
38	Orthogonal polarization clamping and interleaving in polarization maintaining fiber random Brillouin lasers. <i>Optics Communications</i> , <b>2022</b> , 509, 127697	2	1
37	Signal-to-noise ratio analysis of computational distributed fiber-optic sensing. <i>Optics Express</i> , <b>2020</b> , 28, 9563-9571	3.3	1
36	Distributed Birefringence Measurement of Polarization Maintaining Fiber Using Transient Brillouin Grating <b>2010</b> ,		1
35	Pipeline Buckling Detection by the Distributed Brillouin Sensor <b>2005</b> , 515-524		1
34	Fabrication of high frequency SAW devices using tri-layer lift-off photolithography. <i>Microelectronic Engineering</i> , <b>2021</b> , 253, 111671	2.5	1
33	Linearly Polarized Multi-wavelength Comb via Rayleigh Scattering induced Brillouin Random Lasing Resonance <b>2018</b> ,		1
32	Sub-MHz Ultrasonic Sensor Using Fiber Laser Based on Random Fiber Grating <b>2018</b> ,		1

31	Phase-shift detection in a Fourier-transform method for temperature sensing using a tapered fiber microknot resonator. <i>Optics Letters</i> , <b>2016</b> , 41, 1344-7	3	1
30	Salinity Concentration Sensing Based on a Tapered Dual-Core As <sub>2</sub> Se <sub>3</sub> -PMMA Hybrid Fiber. <i>IEEE Photonics Technology Letters</i> , <b>2021</b> , 33, 181-184	2.2	1
29	Stimulated Brillouin scattering in high-birefringence elliptical-core AsSe-PMMA microfibers. <i>Optics Letters</i> , <b>2021</b> , 46, 945-948	3	1
28	All-optical enhancement of minimum detectable perturbation in intensity-based fiber sensors. <i>Optics Express</i> , <b>2021</b> , 29, 32114-32123	3.3	1
27	High-resolution surface acoustic wave (SAW) strain sensor based on acoustic Fabry-Pérot resonance. <i>Sensors and Actuators A: Physical</i> , <b>2022</b> , 338, 113504	3.9	1
26	Generation of high performance optical chirped pulse for distributed strain sensing application with high strain accuracy and larger measurement range. <i>Optics Express</i> , <b>2022</b> , 30, 18518	3.3	1
25	Broadband ultrasound sensing based on fused dual-core chalcogenide-PMMA microfibers.. <i>Optics Express</i> , <b>2022</b> , 30, 8847-8856	3.3	0
24	Sensitivity enhancement of fiber optical polarimetric sensors using self-induced nonlinear phase modulation via the Kerr effect.. <i>Optics Express</i> , <b>2022</b> , 30, 13985-13993	3.3	0
23	Stabilizing Brillouin random laser with photon localization by feedback of distributed random fiber grating array. <i>Optics Express</i> , <b>2022</b> , 30, 20712	3.3	0
22	Spatially Resolved Brillouin Spectral Hole Burning in PMF and SMF. <i>IEEE Photonics Journal</i> , <b>2018</b> , 10, 1-8	1.8	
21	Polarization dependence of the nonlinear interaction between sinusoidally modulated optical signals in a randomly birefringent optical fiber. <i>Applied Optics</i> , <b>2015</b> , 54, 9563-7	0.2	
20	Moment-generating function method used to accurately evaluate the impact of the linearized optical noise amplified by EDFAs. <i>Optics Express</i> , <b>2014</b> , 22, 6620-33	3.3	
19	Water wave frequency detection by optical fiber sensor. <i>Optics Communications</i> , <b>2008</b> , 281, 6011-6015	2	
18	WDM high speed chirped DPSK fiber optical system transmission modeling in presence of PMD, PDL, and CD. <i>Optical Fiber Technology</i> , <b>2006</b> , 12, 276-281	2.4	
17	Polarization-mode dispersion measurement in a system with polarization-dependent loss or gain <b>2003</b> , 5260, 386		
16	Statistics of relative orientation of principal states of polarization in the presence of PMD and PDL <b>2003</b> , 5260, 394		
15	Dynamic field fiber polarization mode dispersion measurements <b>2003</b> , 4833, 1116		
14	Simultaneous optical spectral loss and chromatic dispersion measurements of fiber Bragg grating using the phase-shift technique <b>2003</b> , 4833, 1033		

- 13 Analytical eye diagram evaluation due to the existence of the polarization-mode dispersion and polarization-dependent loss in single-mode fibers **2003**, 5260, 41
- 12 Statistical distribution of pulse broadening/narrowing due to the interaction of polarization mode dispersion and frequency chirp in dispersion-shifted fiber. *Optics Communications*, **2003**, 222, 243-248 2
- 11 Wavelength dependence study on the transmission characteristics of the concatenated PDL and PMD elements **2005**, 5970, 800
- 10 Wavelength dependence study on the transmission characteristics of the concatenated polarization dependent loss and polarization mode dispersion elements. *Optical Engineering*, **2005**, 44, 115006 1.1
- 9 Characterization of Fibers in an Existing Network for High Speed System (10Gb/s or Greater) Compatibility. *Fiber and Integrated Optics*, **2001**, 20, 427-442 0.8
- 8 Strain monitoring of the Rollinsford bridge using distributed sensing **2000**, 4087, 1149
- 7 Analysis of the amplitude fluctuation in a synchronously pumped mode-locked dye laser. *Physical Review A*, **1989**, 39, 5132-5135 2.6
- 6 Analytic theory of a supermodes solution and output criteria for synchronously pumped dye lasers. *Journal of the Optical Society of America B: Optical Physics*, **1989**, 6, 1370 1.7
- 5 . *IEEE Journal of Quantum Electronics*, **1989**, 25, 1691-1694 2
- 4 Performance enhancement of Brillouin sensing systems based on compressive sampling. *OSA Continuum*, **2020**, 3, 3116 1.4
- 3 All-optical intensity fluctuation magnification using Kerr effect: erratum. *Optics Express*, **2021**, 29, 38082<sup>3</sup>38083
- 2 Simultaneous generation of guided-acoustic-wave Brillouin scattering and stimulated-Brillouin-scattering in hybrid AsSe-PMMA microtapers: errata. *Optics Express*, **2019**, 27, 19842<sup>3</sup>
- 1 Simultaneously Self-Inscribed Antisymmetric Long-Period Grating and Antisymmetric Apodized Fiber Bragg Grating in a Dual-Core As<sub>2</sub>Se<sub>3</sub>-PMMA Tapered Fiber. *Journal of Lightwave Technology*, **2020**, 38, 6345-6351 4