

Jun He

List of Publications by Year in descending order

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144
papers

3,030
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159585

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144
times ranked

1969
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Spatial-Resolution High-Temperature Sensor Based on Ultra-Short Fiber Bragg Gratings With Dual-Wavelength Differential Detection. <i>Journal of Lightwave Technology</i> , 2022, 40, 2166-2172.	4.6	8
2	Femtosecond laser auto-positioning direct writing of a multicore fiber Bragg grating array for shape sensing. <i>Optics Letters</i> , 2022, 47, 758.	3.3	25
3	A Nondestructive Measurement Method of Optical Fiber Young's Modulus Based on OFDR. <i>Sensors</i> , 2022, 22, 1450.	3.8	5
4	Stabilized Ultra-High-Temperature Sensors Based on Inert Gas-Sealed Sapphire Fiber Bragg Gratings. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12359-12366.	8.0	14
5	Shape sensing using two outer cores of multi-core fiber based on OFDR. , 2022, , .		2
6	Room-Temperature Fiber Tip Nanoscale Optomechanical Bolometer. <i>ACS Photonics</i> , 2022, 9, 1586-1593.	6.6	7
7	Polarimetric fiber laser for relative humidity sensing based on graphene oxide-coated D-shaped fiber and beat frequency demodulation. <i>Optics Express</i> , 2022, 30, 15998.	3.4	6
8	Quasi-Distributed Temperature and Strain Sensors Based on Series-Integrated Fiber Bragg Gratings. <i>Nanomaterials</i> , 2022, 12, 1540.	4.1	5
9	An improved high stability and low distortion phase generated carrier demodulation algorithm for phase-sensitive optical time-domain reflectometers. <i>Laser Physics Letters</i> , 2022, 19, 075102.	1.4	2
10	Numerical Study on Multiple Arcs in a Pyro-Breaker Based on the Black-Box Arc Model. <i>Electronics (Switzerland)</i> , 2022, 11, 1702.	3.1	2
11	Slit Beam Shaping for Femtosecond Laser Point-by-Point Inscription of Highly Localized Fiber Bragg Grating. <i>Journal of Lightwave Technology</i> , 2022, 40, 5722-5728.	4.6	4
12	Shape Sensing Using Two Outer Cores of Multicore Fiber and Optical Frequency Domain Reflectometer. <i>Journal of Lightwave Technology</i> , 2021, 39, 6624-6630.	4.6	18
13	Highly sensitive hydrogen sensor based on an in-fiber Mach-Zehnder interferometer with polymer infiltration and Pt-loaded WO ₃ coating. <i>Optics Express</i> , 2021, 29, 4147.	3.4	19
14	Helical Intermediate-Period Fiber Grating for Refractive Index Measurements With Low-Sensitive Temperature and Torsion Response. <i>Journal of Lightwave Technology</i> , 2021, 39, 6678-6685.	4.6	16
15	Hollow-Core Fiber-Tip Interferometric High-Temperature Sensor Operating at 1100 °C with High Linearity. <i>Micromachines</i> , 2021, 12, 234.	2.9	3
16	Review of Femtosecond-Laser-Inscribed Fiber Bragg Gratings: Fabrication Technologies and Sensing Applications. <i>Photonic Sensors</i> , 2021, 11, 203-226.	5.0	78
17	Temperature-insensitive directional transverse load sensor based on dual side-hole fiber Bragg grating. <i>Optics Express</i> , 2021, 29, 17700.	3.4	15
18	Numerical Analysis of a Pyro-breaker Utilized in Superconducting Fusion Facility. , 2021, , .		1

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19	Efficient point-by-point Bragg grating inscription in sapphire fiber using femtosecond laser filaments. Optics Letters, 2021, 46, 2742.	3.3	24
20	Application of an Improved Mayr-Type Arc Model in Pyro-Breakers Utilized in Superconducting Fusion Facilities. Energies, 2021, 14, 4383.	3.1	8
21	Slit Beam Shaping for Femtosecond Laser Point-by-Point Inscription of High-Quality Fiber Bragg Gratings. Journal of Lightwave Technology, 2021, 39, 5142-5148.	4.6	16
22	Femtosecond laser point-by-point inscription of an ultra-weak fiber Bragg grating array for distributed high-temperature sensing. Optics Express, 2021, 29, 32615.	3.4	45
23	Single-mode helical Bragg grating waveguide created in a multimode coreless fiber by femtosecond laser direct writing. Photonics Research, 2021, 9, 2052.	7.0	17
24	High-Spatial-Resolution Strain Sensor Based on Distance Compensation and Image Wavelet Denoising Method in OFDR. Journal of Lightwave Technology, 2021, 39, 6334-6339.	4.6	22
25	Gas detection in a graphene based dual-mode fiber laser microcavity. Sensors and Actuators B: Chemical, 2021, 348, 130694.	7.8	14
26	Fiber optic hydrogen sensor based on a Fabry-Perot interferometer with a fiber Bragg grating and a nanofilm. Lab on A Chip, 2021, 21, 1752-1758.	6.0	33
27	Femtosecond Laser-Inscribed Ultra-Weak Fiber Bragg Grating Array for Distributed High-Temperature Measurements. , 2021, , .		0
28	Multicore Fiber Bragg Gratings Array Shape Sensor Fabricated with an Auto-Alignment Femtosecond Laser Point-by-Point Technology. , 2021, , .		0
29	Encapsulated Sapphire Fiber Bragg Grating Sensor with Improved High-Temperature Performance. , 2021, , .		0
30	Silt-Beam Shaping Method for Femtosecond Laser Point-by-Point Inscription of Highly Localized Fiber Bragg Gratings with Enhanced Cladding Modes. , 2021, , .		0
31	Femtosecond laser line-by-line inscription of apodized fiber Bragg gratings. Optics Letters, 2021, 46, 5663.	3.3	15
32	Excitation of high order orbital angular momentum modes in ultra-short chiral long period fiber gratings. Optics Express, 2021, 29, 39384.	3.4	9
33	Numerical Analysis of the Convective Heat Transfer Coefficient Enhancement of a Pyro-Breaker Utilized in Superconducting Fusion Facilities. Energies, 2021, 14, 7565.	3.1	3
34	Large-Scale Multiplexed in-Fiber Micro-Cavity Array for Distributed High Temperature Sensing. , 2021, , .		0
35	Optical Fiber Tag Based on an Encoded Fiber Bragg Grating Fabricated by Femtosecond Laser. Journal of Lightwave Technology, 2020, 38, 1474-1479.	4.6	17
36	High-Speed All-Optical Modulator Based on a Polymer Nanofiber Bragg Grating Printed by Femtosecond Laser. ACS Applied Materials & Interfaces, 2020, 12, 1465-1473.	8.0	16

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37	High-Efficiency Inscription of Fiber Bragg Grating Array with High-Energy Nanosecond-Pulsed Laser Talbot Interferometer. <i>Sensors</i> , 2020, 20, 4307.	3.8	5
38	Nonlinear Hydraulic Pressure Response of an Improved Fiber Tip Interferometric High-Pressure Sensor. <i>Sensors</i> , 2020, 20, 2548.	3.8	6
39	Dual-Polarization Distributed Feedback Fiber Laser Sensor Based on Femtosecond Laser-Inscribed In-Fiber Stressors for Simultaneous Strain and Temperature Measurements. <i>IEEE Access</i> , 2020, 8, 97823-97829.	4.2	14
40	Simultaneous Measurement of Strain and Temperature by a Sawtooth Stressor-Assisted Highly Birefringent Fiber Bragg Grating. <i>Journal of Lightwave Technology</i> , 2020, 38, 2060-2066.	4.6	28
41	Helical Long-Period Fiber Gratings as Wavelength-Tunable Orbital Angular Momentum Mode Generators. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 418-421.	2.5	16
42	Intensity-modulated bend sensor by using a twin core fiber: theoretical and experimental studies. <i>Optics Express</i> , 2020, 28, 14850.	3.4	15
43	Orthogonal long-period fiber grating for directly exciting the orbital angular momentum. <i>Optics Express</i> , 2020, 28, 27044.	3.4	15
44	Phase-shifted fiber Bragg grating modulated by a hollow cavity for measuring gas pressure. <i>Optics Letters</i> , 2020, 45, 507.	3.3	24
45	Ultrafast laser inscription of fiber Bragg gratings with low polarization dependent loss. , 2020, , .		0
46	Polymer-Filled In-Fiber Mach-Zehnder Interferometer with Pt-loaded WO ₃ Coating for Trace Hydrogen Detection. , 2020, , .		0
47	Highly birefringent fiber grating laser sensors based on femtosecond laser-inscribed in-fiber stressors. , 2020, , .		0
48	Recent Progress in Fabrications and Applications of Heating-Induced Long Period Fiber Gratings. <i>Sensors</i> , 2019, 19, 4473.	3.8	19
49	Symmetric Step-Apodized Distributed Feedback Fiber Laser With Improved Efficiency. <i>IEEE Photonics Journal</i> , 2019, 11, 1-11.	2.0	7
50	Designing of cooling water system for a pyro-breaker utilized in superconductive fusion facility. <i>Fusion Engineering and Design</i> , 2019, 148, 111294.	1.9	9
51	In-Fiber Collimator-Based Fabry-Perot Interferometer with Enhanced Vibration Sensitivity. <i>Sensors</i> , 2019, 19, 435.	3.8	19
52	Orbital angular momentum generator based on hollow-core photonic bandgap fiber grating. <i>Applied Physics Express</i> , 2019, 12, 072004.	2.4	7
53	Study of contact resistance in the design of a pyro-breaker applied in superconducting fusion facility. <i>Plasma Science and Technology</i> , 2019, 21, 065602.	1.5	4
54	Parallel-Integrated Fiber Bragg Gratings Inscribed by Femtosecond Laser Point-by-Point Technology. <i>Journal of Lightwave Technology</i> , 2019, 37, 2185-2193.	4.6	34

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55	Sapphire Fiber Bragg Gratings with Improved Spectral Properties for High-temperature Measurements. , 2019, , .		1
56	Sensitivity-enhanced Temperature Sensor Based on Cascaded Polymer-infiltrated Mach-Zehnder Interferometers Created in Graded Index Fibers. , 2019, , .		2
57	Femtosecond Laser-inscribed Multimode Fiber Bragg Gratings. , 2019, , .		0
58	Highly sensitive gas refractive index sensor based on hollow-core photonic bandgap fiber. Optics Express, 2019, 27, 29649.	3.4	21
59	Polarization-independent orbital angular momentum generator based on a chiral fiber grating. Optics Letters, 2019, 44, 61.	3.3	47
60	Highly sensitive temperature sensor based on a polymer-infiltrated Mach-Zehnder interferometer created in graded index fiber. Optics Letters, 2019, 44, 2466.	3.3	53
61	Multi-layer, offset-coupled sapphire fiber Bragg gratings for high-temperature measurements. Optics Letters, 2019, 44, 4211.	3.3	28
62	High-energy mode-locked holmium-doped fiber laser operating in noise-like pulse regime. Optics Letters, 2019, 44, 4491.	3.3	34
63	Low short-wavelength loss fiber Bragg gratings inscribed in a small-core fiber by femtosecond laser point-by-point technology. Optics Letters, 2019, 44, 5121.	3.3	19
64	Low-amplitude, drifting sub-pulses hiding in background of noise-like pulse generated in fiber laser. Optics Express, 2019, 27, 29606.	3.4	9
65	Taper Embedded Phase-Shifted Fiber Bragg Grating Fabricated by Femtosecond Laser Line-by-Line Inscription. IEEE Photonics Journal, 2018, 10, 1-8.	2.0	6
66	Orbital Angular Momentum Mode Converter Based on Helical Long Period Fiber Grating Inscribed by Hydrogen-Oxygen Flame. Journal of Lightwave Technology, 2018, 36, 1683-1688.	4.6	92
67	Optofluidic gutter oil discrimination based on a hybrid-waveguide coupler in fibre. Lab on A Chip, 2018, 18, 595-600.	6.0	37
68	Development of Bi/Er co-doped optical fibers for ultra-broadband photonic applications. Frontiers of Optoelectronics, 2018, 11, 37-52.	3.7	22
69	Omnidirectional bending sensor based on fiber Bragg gratings inscribed in a seven-core fiber. , 2018, , .		0
70	Femtosecond-Laser-Inscribed Fiber Bragg Gratings for High-Temperature Sensing. , 2018, , .		1
71	Enhanced surface plasmon resonance fiber sensor based on Graphene Oxide. , 2018, , .		2
72	Highly sensitive bend measurements using a miniature fiber collimator-based Fabry-Perot Interferometer. , 2018, , .		0

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73	Highly sensitive temperature sensor based on a Mach-Zehnder interferometer created in graded index fiber. , 2018, , .		3
74	Antiresonant Reflecting Guidance and Mach-Zender Interference in Cascaded Hollow-Core Fibers for Multi-Parameter Sensing. Sensors, 2018, 18, 4140.	3.8	5
75	Simultaneous Vector Bend and Temperature Sensing Based on a Polymer and Silica Optical Fibre Grating Pair. Sensors, 2018, 18, 3507.	3.8	6
76	Sapphire fiber Bragg gratings inscribed with a femtosecond laser line-by-line scanning technique. Optics Letters, 2018, 43, 4562.	3.3	55
77	Two-dimensional vector bending sensor based on seven-core fiber Bragg gratings. Optics Express, 2018, 26, 23770.	3.4	86
78	Highly sensitive surface plasmon resonance biosensor based on a low-index polymer optical fiber. Optics Express, 2018, 26, 3988.	3.4	106
79	Bragg resonance in microfiber realized by two-photon polymerization. Optics Express, 2018, 26, 3732.	3.4	13
80	Novel fabrication technique for phase-shifted fiber Bragg gratings using a variable-velocity scanning beam and a shielded phase mask. Optics Express, 2018, 26, 13311.	3.4	20
81	High-order orbital angular momentum mode generator based on twisted photonic crystal fiber. Optics Letters, 2018, 43, 1786.	3.3	71
82	Temperature Insensitivity Polarization-Controlled Orbital Angular Momentum Mode Converter Based on an LPFG Induced in Four-Mode Fiber. Sensors, 2018, 18, 1766.	3.8	10
83	A Miniature Fiber Collimator for Highly Sensitive Bend Measurements. Journal of Lightwave Technology, 2018, 36, 2827-2833.	4.6	26
84	Strain-based tunable optical microresonator with an in-fiber rectangular air bubble. Optics Letters, 2018, 43, 4077.	3.3	18
85	Diaphragm-free gas-pressure sensor probe based on hollow-core photonic bandgap fiber. Optics Letters, 2018, 43, 3017.	3.3	40
86	Femtosecond laser microprinting of a polymer fiber Bragg grating for high-sensitivity temperature measurements. Optics Letters, 2018, 43, 3409.	3.3	31
87	Bragg Gratings in Suspended-Core Photonic Microcells for High-Temperature Applications. Journal of Lightwave Technology, 2018, 36, 2920-2924.	4.6	20
88	Suppression of parasitic interference in a fiber-tip Fabry-Perot interferometer for high-pressure measurements. Optics Express, 2018, 26, 28178.	3.4	21
89	Beat frequency tuning in dual-polarization distributed feedback fiber laser using side polishing technique. Optics Express, 2018, 26, 34699.	3.4	15
90	Measurement of high pressure and high temperature using a dual-cavity Fabry-Perot interferometer created in cascade hollow-core fibers. Optics Letters, 2018, 43, 6009.	3.3	70

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91	Fabrication of side-polished fiber Bragg grating for refractive index sensor. , 2018, , .		0
92	Ionising Radiation Induced Effects on Bismuth/Erbium Co-Doped Optical Fibres. , 2018, , .		1
93	High-Sensitivity Gas-Pressure Sensor Based on Fiber-Tip PVC Diaphragm Fabry-Pérot Interferometer. Journal of Lightwave Technology, 2017, 35, 4067-4071.	4.6	70
94	Long Period Fiber Grating Inscribed in Hollow-Core Photonic Bandgap Fiber for Gas Pressure Sensing. IEEE Photonics Journal, 2017, 9, 1-7.	2.0	14
95	Nano silica diaphragm in-fiber cavity for gas pressure measurement. Scientific Reports, 2017, 7, 787.	3.3	50
96	Determination of Optical Fiber Parameters Based On Fiber Gratings and a Search Procedure. Journal of Lightwave Technology, 2017, 35, 3591-3596.	4.6	4
97	Photonic crystal fiber with selective infiltration for high sensitivity simultaneous temperature and strain measurement. , 2017, , .		1
98	A novel fabrication method of fiber-tip Fabry-Perot interferometer for high-sensitivity gas-pressure measurements. , 2017, , .		0
99	Femtosecond Laser Inscription of Fiber Bragg Grating in Twin-Core Few-Mode Fiber for Directional Bend Sensing. Journal of Lightwave Technology, 2017, 35, 4670-4676.	4.6	69
100	Label-free detection of bovine serum albumin based on an in-fiber Mach-Zehnder interferometric biosensor. Optics Express, 2017, 25, 17105.	3.4	82
101	Surface plasmon resonance biosensor based on gold-coated side-polished hexagonal structure photonic crystal fiber. Optics Express, 2017, 25, 20313.	3.4	172
102	Bragg gratings inscribed in selectively inflated photonic crystal fibers. Optics Express, 2017, 25, 28442.	3.4	15
103	Fiber surface Bragg grating waveguide for refractive index measurements. Optics Letters, 2017, 42, 1684.	3.3	39
104	Growth dynamics of ZnO nanowire on a fiber-tip air bubble. Optical Materials Express, 2017, 7, 3433.	3.0	6
105	An All-Fiber Fan-Out Device for Varying Twin-Core Fiber Types. Journal of Lightwave Technology, 2017, 35, 5121-5126.	4.6	5
106	Improving the refractive index sensitivity of long period fiber grating with coating ZnO thin film. , 2017, , .		0
107	Twin-core few-mode fiber Bragg gratings inscribed by femtosecond laser. , 2017, , .		1
108	Fabrication of phase-shifted fiber Bragg gratings with a velocity-changed scanning UV laser beam. , 2017, , .		0

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109	Fiber surface Bragg grating waveguide fabricated by femtosecond laser micromachining. , 2017, , .		0
110	Ultrafast laser-induced negative-index fiber Bragg gratings with enhanced thermal stability. Proceedings of SPIE, 2017, , .	0.8	0
111	Phase-shifted gratings and negative-index gratings fabricated by 800 nm femtosecond laser overexposure. , 2016, , .		0
112	Negative-index gratings formed by femtosecond laser overexposure and thermal regeneration. Scientific Reports, 2016, 6, 23379.	3.3	39
113	D-shaped fiber grating refractive index sensor induced by an ultrashort pulse laser. Applied Optics, 2016, 55, 1525.	2.1	46
114	Inscription and improvement of novel fiber Bragg gratings by 800 nm femtosecond laser through a phase mask. , 2016, , .		1
115	Polarization-dependent phase-shifted fiber Bragg gratings inscribed by femtosecond laser overexposure. , 2016, , .		0
116	Refractive index sensor based on side-polished fiber Bragg grating. , 2015, , .		0
117	Femtosecond laser inscribed Bragg gratings in gold-coated fiber for space application. Proceedings of SPIE, 2015, , .	0.8	0
118	Side-polished fibers with rough surface scratches for sensing applications. , 2015, , .		1
119	Ultrasensitive Temperature Sensor Based on a Fiber Fabry-Pérot Interferometer Created in a Mercury-Filled Silica Tube. IEEE Photonics Journal, 2015, 7, 1-9.	2.0	12
120	Rough Side-Polished Fiber With Surface Scratches for Sensing Applications. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	21
121	High-sensitivity strain sensor based on in-fiber rectangular air bubble. Scientific Reports, 2015, 5, 7624.	3.3	100
122	Pattern matching based smart interrogation algorithm for fiber Bragg gratings inscribed by femtosecond laser. Proceedings of SPIE, 2015, , .	0.8	0
123	Ultra-sensitive temperature sensor based on liquid crystal infiltrated photonic crystal fibers. , 2015, , .		2
124	Simultaneous measurement of pressure and temperature by employing Fabry-Perot interferometer based on pendant polymer droplet. Optics Express, 2015, 23, 1906.	3.4	138
125	Asymmetrical in-fiber Mach-Zehnder interferometer for curvature measurement. Optics Express, 2015, 23, 14596.	3.4	82
126	Highly birefringent phase-shifted fiber Bragg gratings inscribed with femtosecond laser. Optics Letters, 2015, 40, 2008.	3.3	41

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127	Ultrahigh-sensitivity temperature sensor based on in-fiber Fabry-Perot interferometer. , 2015, , .		0
128	High-Sensitivity Temperature Sensor Based on a Coated Single-Mode Fiber Loop. Journal of Lightwave Technology, 2015, 33, 4019-4026.	4.6	26
129	Broadband Thermo-Optic Switching Effect Based on Liquid Crystal Infiltrated Photonic Crystal Fibers. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	20
130	Intensity modulated refractive index sensor based on optical fiber Michelson interferometer. Sensors and Actuators B: Chemical, 2015, 208, 315-319.	7.8	154
131	Effects of Rayleigh backscattering on distributed feedback fiber laser sensors. Proceedings of SPIE, 2014, , .	0.8	0
132	Long Period Fiber Gratings Inscribed by Periodically Tapering a Fiber. IEEE Photonics Technology Letters, 2014, 26, 698-701.	2.5	54
133	Improved arc discharge technique for inscribing compact long period fiber gratings. Proceedings of SPIE, 2014, , .	0.8	1
134	Effects of Rayleigh backscattering on the stability of distributed feedback fiber laser sensors. Optical Engineering, 2014, 53, 066102.	1.0	0
135	Temperature-insensitive strain sensor based on in-line Fabry-Perot interferometer. Proceedings of SPIE, 2014, , .	0.8	0
136	Ultra thin fiber laser vector hydrophone. Proceedings of SPIE, 2011, , .	0.8	0
137	Realization of 16-channel digital PGC demodulator for fiber laser sensor array. Journal of Physics: Conference Series, 2011, 276, 012134.	0.4	3
138	Fiber laser sensing system and its applications. Photonic Sensors, 2011, 1, 43-53.	5.0	31
139	Fiber laser vector hydrophone: theory and experiment. Proceedings of SPIE, 2011, , .	0.8	1
140	High performance wavelength demodulator for DFB fiber laser sensor using novel PGC algorithm and reference compensation method. , 2011, , .		4
141	An Ameliorated Phase Generated Carrier Demodulation Algorithm With Low Harmonic Distortion and High Stability. Journal of Lightwave Technology, 2010, , .	4.6	31
142	High Performance Distributed Feedback Fiber Laser Sensor Array System. , 2009, , .		2
143	Elimination of environmental noise in interferometric wavelength shift demodulation for dynamic fiber Bragg grating sensor array. Optics Communications, 2009, 282, 2836-2840.	2.1	10
144	High-quality fiber Bragg grating inscribed in ZBLAN fiber using femtosecond laser point-by-point technology. Optics Letters, 0, , .	3.3	0