

# Xuewen Shu

## List of Publications by Year in descending order

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77  
papers

2,959  
citations

236612

25  
h-index

161609

54  
g-index

77  
all docs

77  
docs citations

77  
times ranked

2227  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity characteristics of long-period fiber gratings. <i>Journal of Lightwave Technology</i> , 2002, 20, 255-266.	2.7	753
2	Error-Free 320-Gb/s All-Optical Wavelength Conversion Using a Single Semiconductor Optical Amplifier. <i>Journal of Lightwave Technology</i> , 2007, 25, 103-108.	2.7	196
3	Sampled fiber Bragg grating for simultaneous refractive-index and temperature measurement. <i>Optics Letters</i> , 2001, 26, 774.	1.7	186
4	Cell-Penetrating Peptides Transport Noncovalently Linked Thermally Activated Delayed Fluorescence Nanoparticles for Time-Resolved Luminescence Imaging. <i>Journal of the American Chemical Society</i> , 2018, 140, 17484-17491.	6.6	132
5	Dependence of temperature and strain coefficients on fiber grating type and its application to simultaneous temperature and strain measurement. <i>Optics Letters</i> , 2002, 27, 701.	1.7	125
6	Narrow-band generation in random distributed feedback fiber laser. <i>Optics Express</i> , 2013, 21, 16466.	1.7	111
7	High-temperature sensitivity of long-period gratings in B-Ge codoped fiber. <i>IEEE Photonics Technology Letters</i> , 2001, 13, 818-820.	1.3	98
8	Highly sensitive chemical sensor based on the measurement of the separation of dual resonant peaks in a 100- $\mu$ m-period fiber grating. <i>Optics Communications</i> , 1999, 171, 65-69.	1.0	84
9	Fiber grating Sagnac loop and its multiwavelength-laser application. <i>IEEE Photonics Technology Letters</i> , 2000, 12, 980-982.	1.3	79
10	Ultra-compact strain- and temperature-insensitive torsion sensor based on a line-by-line inscribed phase-shifted FBG. <i>Optics Express</i> , 2016, 24, 17670.	1.7	79
11	Spatio-spectral dynamics of the pulsating dissipative solitons in a normal-dispersion fiber laser. <i>Optics Letters</i> , 2018, 43, 3602.	1.7	73
12	Implementation and Characterization of Liquid-Level Sensor Based on a Long-Period Fiber Grating Mach-Zehnder Interferometer. <i>IEEE Sensors Journal</i> , 2011, 11, 2878-2882.	2.4	72
13	High sensitivity of dual resonant peaks of long-period fibre grating to surrounding refractive index changes. <i>Electronics Letters</i> , 1999, 35, 1580.	0.5	59
14	Highly sensitive transverse load sensing with reversible sampled fiber Bragg gratings. <i>Applied Physics Letters</i> , 2003, 83, 3003-3005.	1.5	56
15	Small-period long-period fiber grating with improved refractive index sensitivity and dual-parameter sensing ability. <i>Optics Letters</i> , 2017, 42, 199.	1.7	54
16	Dual resonant peaks of LP015 cladding mode in long-period gratings. <i>Electronics Letters</i> , 1999, 35, 649.	0.5	48
17	Sensitivity enhanced fiber sensor based on a fiber ring microwave photonic filter with the Vernier effect. <i>Optics Express</i> , 2017, 25, 21559.	1.7	47
18	Ultra-sensitive refractive index sensor based on an extremely simple femtosecond-laser-induced structure. <i>Optics Letters</i> , 2017, 42, 1157.	1.7	44

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19	Fabrication and characterisation of ultra-long-period fibre gratings. Optics Communications, 2002, 203, 277-281.	1.0	41
20	Compact assembly-free vector bend sensor based on all-in-fiber-core Mach-Zehnder interferometer. Optics Letters, 2018, 43, 531.	1.7	39
21	Ultra-compact all-in-fiber-core Mach-Zehnder interferometer. Optics Letters, 2017, 42, 4059.	1.7	38
22	High-Frequency Fiber Bragg Grating Sensing Interrogation System Using Sagnac-Loop-Based Microwave Photonic Filtering. IEEE Photonics Technology Letters, 2009, 21, 519-521.	1.3	32
23	Transversal Loading Sensor Based on Tunable Beat Frequency of a Dual-Wavelength Fiber Laser. IEEE Photonics Technology Letters, 2009, 21, 987-989.	1.3	31
24	Use of dual-grating sensors formed by different types of fiber Bragg gratings for simultaneous temperature and strain measurements. Applied Optics, 2004, 43, 2006.	2.1	29
25	Stable and low-threshold random fiber laser via Anderson localization. Optics Express, 2019, 27, 12987.	1.7	26
26	Dynamics of soliton explosions in ultrafast fiber lasers at normal-dispersion. Optics Express, 2018, 26, 5564.	1.7	25
27	Miniature All-Fiber High Temperature Sensor Based on Michelson Interferometer Formed With a Novel Core-Mismatching Fiber Joint. IEEE Sensors Journal, 2017, 17, 3341-3345.	2.4	24
28	Fiber Optic Sensor Based on Vernier Microwave Frequency Comb. Journal of Lightwave Technology, 2019, 37, 3503-3509.	2.7	24
29	Random fiber laser based on a partial-reflection random fiber grating for high temperature sensing. Optics Letters, 2021, 46, 957.	1.7	24
30	Pulse dynamics in all-normal dispersion ultrafast fiber lasers. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 553.	0.9	23
31	Auto-phase-locked time-gated luminescence detection for background-free upconversion spectra measurement and true-color biological imaging. Sensors and Actuators B: Chemical, 2018, 260, 289-294.	4.0	23
32	Compact Fiber Curvature and Temperature Sensor Inscribed by Femtosecond Laser Through the Coating. Journal of Lightwave Technology, 2021, 39, 3981-3990.	2.7	22
33	High-Performance Bending Sensor Based on Femtosecond Laser-Inscribed in-Fiber Mach-Zehnder Interferometer. Journal of Lightwave Technology, 2020, 38, 6371-6378.	2.7	20
34	Novel multipassband optical filter using all-fiber Michelson-Gires-Tournois structure. IEEE Photonics Technology Letters, 2005, 17, 384-386.	1.3	17
35	Molecular and vectorial properties of the vector soliton molecules in anomalous-dispersion fiber lasers. Optics Express, 2017, 25, 28035.	1.7	13
36	Tailored Gires-Tournois etalons as tunable dispersion slope compensators. Optics Letters, 2004, 29, 1013.	1.7	12

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37	Global luminescence lifetime imaging of thermally activated delayed fluorescence on an auto-phase-locked time-gated microscope. <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 177-182.	4.0	12
38	Transversal-Load Sensor by Using Local Pressure on a Chirped Fiber Bragg Grating. <i>IEEE Sensors Journal</i> , 2010, 10, 1140-1141.	2.4	11
39	Thin-Core Fiber Taper-Based Multi-Mode Interferometer for Refractive Index Sensing. <i>IEEE Sensors Journal</i> , 2018, 18, 8747-8754.	2.4	11
40	A miniaturized apparatus based on a smartphone for microsecond-resolved luminescence lifetime imaging. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130086.	4.0	11
41	Highly Efficient Triplet-Triplet Annihilation Upconversion Sensitized by a Thermally Activated Delayed Fluorescence Molecule in Optical Microcavities. <i>Advanced Functional Materials</i> , 2021, 31, 2104044.	7.8	11
42	In-Fiber Hybrid Cladding Waveguide by Femtosecond Inscription for Two-Dimensional Vector Bend Sensing. <i>Journal of Lightwave Technology</i> , 2021, 39, 2194-2204.	2.7	10
43	Supermode-noise suppression using a nonlinear Fabry-Pérot filter in a harmonically mode-locked fiber ring laser. <i>Applied Physics Letters</i> , 2002, 81, 4520-4522.	1.5	9
44	Virtual Gires-Tournois etalons realized with phase-modulated wideband chirped fiber gratings. <i>Optics Letters</i> , 2007, 32, 3546.	1.7	9
45	Alternation of the Mode Synchronization and Desynchronization in Ultrafast Fiber Laser. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900219.	4.4	9
46	Optical All-Pass Filter Realized by Self-Compensation of Loss. <i>ACS Photonics</i> , 2021, 8, 3156-3161.	3.2	9
47	Design and Fabrication of Fiber Bragg Gratings With V-Shaped Dispersion Profile. <i>Journal of Lightwave Technology</i> , 2007, 25, 606-611.	2.7	8
48	Proposal of a Phase-Shift Fiber Bragg Grating as an Optical Differentiator and an Optical Integrator Simultaneously. <i>IEEE Photonics Journal</i> , 2018, 10, 1-7.	1.0	8
49	Temperature- and strain- insensitive transverse load sensing based on optical fiber reflective Lyot filter. <i>Applied Physics Express</i> , 2019, 12, 076501.	1.1	8
50	Novel complex gratings with third-order group-delay variations for tunable pure dispersion slope compensation. <i>Optics Express</i> , 2008, 16, 12090.	1.7	6
51	Auto-phase-locked measurement of time-gated luminescence spectra with a microsecond delay. <i>Optics Letters</i> , 2018, 43, 2575.	1.7	6
52	Spectrally resolved luminescence lifetime detection for measuring the energy splitting of the long-lived excited states. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 224, 117434.	2.0	6
53	Auto-Phase-Locked Time-Resolved Luminescence Detection: Principles, Applications, and Prospects. <i>Frontiers in Chemistry</i> , 2020, 8, 562.	1.8	6
54	Curvature sensor based on femtosecond laser-inscribed straight waveguide in FMF. <i>Optics and Laser Technology</i> , 2022, 152, 108154.	2.2	6

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55	Optically controlled tunable dispersion compensators based on pumped fiber gratings. Optics Letters, 2011, 36, 2937.	1.7	5
56	High-order soliton evolution and pulse breaking-recovery in stretched ultrafast fiber lasers. Optics Express, 2018, 26, 11685.	1.7	5
57	High-Power Random Raman Fiber Laser With an Ultrashort Random Fiber Grating. Journal of Lightwave Technology, 2022, 40, 2535-2540.	2.7	5
58	Optically tunable chromatic dispersion controller with coupled-cavity etalon structure. Optics Letters, 2005, 30, 1440.	1.7	4
59	Apodisation of photo-induced waveguide gratings using double-exposure with complementary duty cycles. Optics Express, 2008, 16, 2221.	1.7	4
60	Single-Frequency Random Distributed Bragg Reflector Fiber Laser. Journal of Lightwave Technology, 2022, 40, 4385-4390.	2.7	4
61	Dual-direction Gires-Tournois etalon based on a single complex fiber Bragg grating. Optics Letters, 2006, 31, 2263.	1.7	3
62	Transformation From Conventional Dissipative Solitons to Amplifier Similaritons in All-Normal Dispersion Mode-Locked Fiber Lasers. IEEE Photonics Journal, 2018, 10, 1-11.	1.0	3
63	Microsecond-resolved smartphone time-gated luminescence spectroscopy. Optics Letters, 2022, 47, 3427.	1.7	3
64	A Chaotic State in the Transition From Single Toward Multiple Pulse for Soliton Fiber Lasers. IEEE Photonics Journal, 2020, 12, 1-12.	1.0	2
65	All-fiber michelson-gires-tournois interferometer as multi-passband filter. , 0, , .		1
66	Design and Fabrication of Fibre Bragg Gratings with V-shaped Dispersion Profile for Multi-Channel Signal Processing. , 2006, , .		1
67	Virtual distributed Gires-Tournois etalon based on phase-modulated wideband chirped fiber grating. , 2006, , .		1
68	Semiconductor based demultiplexer and wavelength conversion at 320 Gbits/sec. , 2007, , .		1
69	Optical turbulence and spectral condensate in fibre lasers. , 2011, , .		1
70	Spectral Evolution in Fiber Lasers With Soliton Self-Frequency Shift Effect. IEEE Photonics Journal, 2021, 13, 1-11.	1.0	1
71	Ultra-long-period fiber gratings. , 0, , .		0
72	Thermally tunable optical fiber loss filter with wide tuning range. , 2001, , .		0

#	ARTICLE	IF	CITATIONS
73	High sensitivity sensors utilising characteristics of dispersion-turning-point of long-period gratings in B/Ge co-doped fibre. , 0, , .		0
74	A novel sensor interrogation technique using chirped fiber grating based Sagnac loop. , 0, , .		0
75	Single-reflection-band fiber Bragg gratings with channelized linear and nonlinear dispersion and their applications. , 2007, , .		0
76	Apodisation of photo-induced waveguide gratings with double-exposure of reversely varied duty cycles. , 2007, , .		0
77	Auto-phase-locked Time-gated Luminescence Detection System for Spectrally Resolved Luminescence Lifetime Detection. , 2020, , .		0