

Stephen Christopher Warren-Smith

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,264
citations

172207

29
h-index

223531

46
g-index

90
all docs

90
docs citations

90
times ranked

1617
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensing with suspended-core optical fibers. <i>Optical Fiber Technology</i> , 2010, 16, 343-356.	1.4	165
2	Suspended nanowires: fabrication, design and characterization of fibers with nanoscale cores. <i>Optics Express</i> , 2009, 17, 2646.	1.7	138
3	Enhancement of fluorescence-based sensing using microstructured optical fibres. <i>Optics Express</i> , 2007, 15, 17891.	1.7	99
4	Exposed-core microstructured optical fibers for real-time fluorescence sensing. <i>Optics Express</i> , 2009, 17, 18533.	1.7	88
5	High-sensitivity Sagnac-interferometer biosensor based on exposed core microstructured optical fiber. <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 103-109.	4.0	88
6	Simultaneous measurement of temperature and refractive index using focused ion beam milled Fabry-Perot cavities in optical fiber micro-tips. <i>Optics Express</i> , 2016, 24, 14053.	1.7	86
7	Silica exposed-core microstructured optical fibers. <i>Optical Materials Express</i> , 2012, 2, 1538.	1.6	76
8	Fluorescence-Based Aluminum Ion Sensing Using a Surface-Functionalized Microstructured Optical Fiber. <i>Langmuir</i> , 2011, 27, 5680-5685.	1.6	69
9	Exposed core microstructured optical fiber Bragg gratings: refractive index sensing. <i>Optics Express</i> , 2014, 22, 1480.	1.7	69
10	Antibody immobilization within glass microstructured fibers: a route to sensitive and selective biosensors. <i>Optics Express</i> , 2008, 16, 18514.	1.7	64
11	Interferometric high temperature sensor using suspended-core optical fibers. <i>Optics Express</i> , 2016, 24, 8967.	1.7	61
12	Enhanced fluorescence sensing using microstructured optical fibers: a comparison of forward and backward collection modes. <i>Optics Letters</i> , 2008, 33, 1473.	1.7	60
13	Temperature sensing up to 1300Å°C using suspended-core microstructured optical fibers. <i>Optics Express</i> , 2016, 24, 3714.	1.7	56
14	Fabrication, splicing, Bragg grating writing, and polyelectrolyte functionalization of exposed-core microstructured optical fibers. <i>Optics Express</i> , 2014, 22, 29493.	1.7	51
15	In Situ Temperature-Compensated DNA Hybridization Detection Using a Dual-Channel Optical Fiber Sensor. <i>Analytical Chemistry</i> , 2021, 93, 10561-10567.	3.2	51
16	Interferometric-type optical biosensor based on exposed core microstructured optical fiber. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 320-327.	4.0	47
17	Predicting the drawing conditions for Microstructured Optical Fiber fabrication. <i>Optical Materials Express</i> , 2014, 4, 29.	1.6	44
18	Sensing in the presence of strong noise by deep learning of dynamic multimode fiber interference. <i>Photonics Research</i> , 2021, 9, B109.	3.4	42

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19	Nitric oxide optical fiber sensor based on exposed core fibers and CdTe/CdS quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 9-17.	4.0	39
20	Temperature-Compensated Refractive Index Measurement Using a Dual Fabry-Perot Interferometer Based on C-Fiber Cavity. <i>IEEE Sensors Journal</i> , 2020, 20, 6408-6413.	2.4	37
21	In-situ DNA detection with an interferometric-type optical sensor based on tapered exposed core microstructured optical fiber. <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130942.	4.0	37
22	Identification and Quantification of Explosives in Nanolitre Solution Volumes by Raman Spectroscopy in Suspended Core Optical Fibers. <i>Sensors</i> , 2013, 13, 13163-13177.	2.1	35
23	Taming the Light in Microstructured Optical Fibers for Sensing. <i>International Journal of Applied Glass Science</i> , 2015, 6, 229-239.	1.0	35
24	Simultaneous Measurement of Temperature and Refractive Index Using an Exposed Core Microstructured Optical Fiber. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-7.	1.9	34
25	Fluorescence-based sensing with optical nanowires: a generalized model and experimental validation. <i>Optics Express</i> , 2010, 18, 9474.	1.7	32
26	Driving down the Detection Limit in Microstructured Fiber-Based Chemical Dip Sensors. <i>Sensors</i> , 2011, 11, 2961-2971.	2.1	31
27	Perspective: Biomedical sensing and imaging with optical fibers—Innovation through convergence of science disciplines. <i>APL Photonics</i> , 2018, 3, .	3.0	31
28	Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors. <i>Advanced Materials</i> , 2020, 32, e2003826.	11.1	31
29	Molecular beacons immobilized within suspended core optical fiber for specific DNA detection. <i>Optics Express</i> , 2012, 20, 29378.	1.7	30
30	Multimode exposed core fiber specklegram sensor. <i>Optics Letters</i> , 2020, 45, 3212.	1.7	30
31	Distributed Fluorescence Sensing Using Exposed Core Microstructured Optical Fiber. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 1385-1387.	1.3	29
32	Optical fiber refractive index sensor with low detection limit and large dynamic range using a hybrid fiber interferometer. <i>Journal of Lightwave Technology</i> , 2019, , 1-1.	2.7	28
33	Sensing with ultra-short Fabry-Perot cavities written into optical micro-fibers. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 1016-1021.	4.0	27
34	All-fiber all-optical quantitative polymerase chain reaction (qPCR). <i>Sensors and Actuators B: Chemical</i> , 2020, 323, 128681.	4.0	27
35	Stability of Grating-Based Optical Fiber Sensors at High Temperature. <i>IEEE Sensors Journal</i> , 2019, 19, 2978-2983.	2.4	26
36	Plug-in label-free optical fiber DNA hybridization sensor based on C-type fiber Vernier effect. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131212.	4.0	26

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37	Direct core structuring of microstructured optical fibers using focused ion beam milling. Optics Express, 2016, 24, 378.	1.7	25
38	Silk: A bio-derived coating for optical fiber sensing applications. Sensors and Actuators B: Chemical, 2020, 311, 127864.	4.0	24
39	Simultaneous Measurement of Temperature and Relative Humidity Using Cascaded C-shaped Fabry-Perot interferometers. Journal of Lightwave Technology, 2022, 40, 1209-1215.	2.7	24
40	Plasmonic nanoparticle-functionalized exposed-core fiber—an optofluidic refractive index sensing platform. Optics Letters, 2017, 42, 4395.	1.7	22
41	Quantification of the fluorescence sensing performance of microstructured optical fibers compared to multi-mode fiber tips. Optics Express, 2016, 24, 18541.	1.7	20
42	Multiplexed Optical Fiber Biochemical Sensing Using Cascaded C-Shaped Fabry-Perot Interferometers. IEEE Sensors Journal, 2019, 19, 10425-10431.	2.4	19
43	Machine learning for sensing with a multimode exposed core fiber specklegram sensor. Optics Express, 2022, 30, 10443.	1.7	18
44	Generating and measuring photochemical changes inside the brain using optical fibers: exploring stroke. Biomedical Optics Express, 2014, 5, 3975.	1.5	16
45	Third harmonic generation in exposed-core microstructured optical fibers. Optics Express, 2016, 24, 17860.	1.7	16
46	Temperature-Compensated Interferometric High-Temperature Pressure Sensor Using a Pure Silica Microstructured Optical Fiber. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	16
47	Temperature independent refractive index measurement using a fiber Bragg grating on abrupt tapered tip. Optics and Laser Technology, 2018, 101, 227-231.	2.2	15
48	Temperature Compensated Magnetic Field Sensor Using Magnetic Fluid Filled Exposed Core Microstructure Fiber. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	2.4	15
49	Enzyme activity assays within microstructured optical fibers enabled by automated alignment. Biomedical Optics Express, 2012, 3, 3304.	1.5	11
50	Soft-glass imaging microstructured optical fibers. Optics Express, 2018, 26, 33604.	1.7	11
51	Nanofilm-induced spectral tuning of third harmonic generation. Optics Letters, 2017, 42, 1812.	1.7	10
52	Distributed optical fiber sensing of micron-scale particles. Sensors and Actuators A: Physical, 2020, 303, 111762.	2.0	9
53	Tunable multi-wavelength third-harmonic generation using exposed-core microstructured optical fiber. Optics Letters, 2019, 44, 626.	1.7	9
54	Whispering gallery mode excitation using exposed-core fiber. Optics Express, 2021, 29, 23549.	1.7	8

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55	Quantum noise limited nanoparticle detection with exposed-core fiber. Optics Express, 2019, 27, 18601.	1.7	8
56	Genotyping Single Nucleotide Polymorphisms Using Different Molecular Beacon Multiplexed within a Suspended Core Optical Fiber. Sensors, 2014, 14, 14488-14499.	2.1	7
57	Exposed-core fiber multimode interference sensor. Results in Optics, 2021, 5, 100125.	0.9	6
58	Temperature compensated fiber optic magnetic sensor based on the combination interference principle. Optics Letters, 2022, 47, 2558.	1.7	6
59	Cross-fence comparisons: Theory for spatially comprehensive, controlled variable assessment of treatment effects in managed landscapes. Ecological Informatics, 2011, 6, 170-176.	2.3	5
60	Optical Fibres for Distributed Corrosion Sensing - Architecture and Characterisation. Key Engineering Materials, 2013, 558, 522-533.	0.4	4
61	Exposed-core microstructured fibres for real-time fluorescence sensing. , 2009, , .		3
62	Design considerations for graded index fiber tip Fabry-Perot interferometers. Measurement Science and Technology, 2021, 32, 055201.	1.4	3
63	Single-peak fiber Bragg gratings in suspended-core optical fibers. Optics Express, 2020, 28, 23354.	1.7	3
64	Sensing in suspended-core optical fibers. , 2011, , .		2
65	Fabrication of imaging microstructured optical fibers. , 2019, , .		2
66	Multimode optical fiber specklegram smart bed sensor array. Journal of Biomedical Optics, 2022, 27, .	1.4	2
67	DNA detection using molecular beacon in soft-glass microstructured optical fibers. Proceedings of SPIE, 2012, , .	0.8	1
68	Ultra-small Fabry-Perot cavities in tapered optical fibers. Proceedings of SPIE, 2016, , .	0.8	1
69	Tapered optical fiber tip probes based on focused ion beam-milled Fabry-Perot microcavities. , 2016, , .		1
70	Combined microfiber knot resonator and focused ion beam-milled Mach-Zehnder interferometer for refractive index measurement. Proceedings of SPIE, 2017, , .	0.8	1
71	Wavelength shifted third harmonic generation in an exposed-core microstructured optical fiber. , 2017, , .		1
72	Two-dimensional mapping of surface scatterers on an optical fiber core using selective mode launching. APL Photonics, 2021, 6, 026105.	3.0	1

#	ARTICLE	IF	CITATIONS
73	Highly efficient fluorescence sensing using microstructured optical fibres: general model and experiment. , 2008, , .		0
74	Interferometric fiber sensor using exposed core microstructured optical fiber for refractive index based biochemical sensing. Proceedings of SPIE, 2014, , .	0.8	0
75	High temperature fiber sensor using the interference effect within a suspended core microstructured optical fiber. , 2016, , .		0
76	Multiplexed refractive index-based sensing using optical fiber microcavities. , 2016, , .		0
77	Fiber probe microcavities for refractive index and temperature discrimination. Proceedings of SPIE, 2016, , .	0.8	0
78	High temperature sensing with single material silica optical fibers. , 2017, , .		0
79	Refractive Index and Temperature Sensing with Sagnac-Mach Zehnder Hybrid Fiber Interferometer. , 2020, , .		0
80	Integrated Photonics: Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors (Adv. Mater. 47/2020). Advanced Materials, 2020, 32, 2070354.	11.1	0
81	Scalable Integrated Waveguide with CVD-Grown MoS2 and WS2 Monolayers on Exposed-Core Fibers. , 2021, , .		0
82	Advances in chemical and biological sensing using emerging soft glass optical fibers. , 2009, , .		0
83	Focused Ion Beam Structuring of Exposed-Core Microstructured Optical Fibers. , 2015, , .		0
84	Comparison of the Fluorescence Sensing Performance of Microstructured Optical Fibres and Multi-mode Fibre Tips. , 2016, , .		0
85	High Temperature Sensing with Suspended Core Fibers. , 2016, , .		0
86	Microstructured optical fiber high-temperature sensors. , 2019, , .		0
87	Novel concepts for sensing, imaging and mode generation in fibers using high-index glass. , 2019, , .		0
88	Multi-point high temperature optical fiber sensor. , 2019, , .		0
89	Towards distributed particle sensing using a few-mode exposed-core optical fibre with a spatially referenced evanescent field. , 2020, , .		0
90	Photoluminescence and Third Harmonic Generation in Directly-Grown MoS2 and WS2 Exposed-Core Fibers. , 2020, , .		0