

Stephen Christopher Warren-Smith

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.

68

papers

1,552

citations

23

h-index

37

g-index

90

ext. papers

1,944

ext. citations

4.6

avg, IF

4.81

L-index

#	Paper	IF	Citations
68	Sensing with suspended-core optical fibers. <i>Optical Fiber Technology</i> , 2010 , 16, 343-356	2.4	129
67	Suspended nanowires: fabrication, design and characterization of fibers with nanoscale cores. <i>Optics Express</i> , 2009 , 17, 2646-57	3.3	105
66	Enhancement of fluorescence-based sensing using microstructured optical fibres. <i>Optics Express</i> , 2007 , 15, 17891-901	3.3	82
65	Exposed-core microstructured optical fibers for real-time fluorescence sensing. <i>Optics Express</i> , 2009 , 17, 18533-42	3.3	72
64	Silica exposed-core microstructured optical fibers. <i>Optical Materials Express</i> , 2012 , 2, 1538	2.6	65
63	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, 14053-65	3.3	63
62	Fluorescence-based aluminum ion sensing using a surface-functionalized microstructured optical fiber. <i>Langmuir</i> , 2011 , 27, 5680-5	4	61
61	Exposed core microstructured optical fiber Bragg gratings: refractive index sensing. <i>Optics Express</i> , 2014 , 22, 1480-9	3.3	56
60	High-sensitivity Sagnac-interferometer biosensor based on exposed core microstructured optical fiber. <i>Sensors and Actuators B: Chemical</i> , 2018 , 269, 103-109	8.5	53
59	Antibody immobilization within glass microstructured fibers: a route to sensitive and selective biosensors. <i>Optics Express</i> , 2008 , 16, 18514-23	3.3	53
58	Enhanced fluorescence sensing using microstructured optical fibers: a comparison of forward and backward collection modes. <i>Optics Letters</i> , 2008 , 33, 1473-5	3	49
57	Interferometric high temperature sensor using suspended-core optical fibers. <i>Optics Express</i> , 2016 , 24, 8967-77	3.3	43
56	Predicting the drawing conditions for Microstructured Optical Fiber fabrication. <i>Optical Materials Express</i> , 2014 , 4, 29	2.6	40
55	Temperature sensing up to 1300°C using suspended-core microstructured optical fibers. <i>Optics Express</i> , 2016 , 24, 3714-9	3.3	37
54	Fabrication, splicing, Bragg grating writing, and polyelectrolyte functionalization of exposed-core microstructured optical fibers. <i>Optics Express</i> , 2014 , 22, 29493-504	3.3	35
53	Interferometric-type optical biosensor based on exposed core microstructured optical fiber. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 320-327	8.5	31
52	Taming the Light in Microstructured Optical Fibers for Sensing. <i>International Journal of Applied Glass Science</i> , 2015 , 6, 229-239	1.8	29

51	Fluorescence-based sensing with optical nanowires: a generalized model and experimental validation. <i>Optics Express</i> , 2010 , 18, 9474-85	3.3	27
50	Driving down the detection limit in microstructured fiber-based chemical dip sensors. <i>Sensors</i> , 2011 , 11, 2961-71	3.8	27
49	Molecular beacons immobilized within suspended core optical fiber for specific DNA detection. <i>Optics Express</i> , 2012 , 20, 29378-85	3.3	27
48	Temperature-Compensated Refractive Index Measurement Using a Dual FabryPerot Interferometer Based on C-Fiber Cavity. <i>IEEE Sensors Journal</i> , 2020 , 20, 6408-6413	4	26
47	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	8.5	26
46	Identification and quantification of explosives in nanolitre solution volumes by Raman spectroscopy in suspended core optical fibers. <i>Sensors</i> , 2013 , 13, 13163-77	3.8	25
45	Distributed Fluorescence Sensing Using Exposed Core Microstructured Optical Fiber. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 1385-1387	2.2	23
44	Direct core structuring of microstructured optical fibers using focused ion beam milling. <i>Optics Express</i> , 2016 , 24, 378-87	3.3	23
43	Perspective: Biomedical sensing and imaging with optical fibersInnovation through convergence of science disciplines. <i>APL Photonics</i> , 2018 , 3, 100902	5.2	22
42	Sensing with ultra-short Fabry-Perot cavities written into optical micro-fibers. <i>Sensors and Actuators B: Chemical</i> , 2017 , 244, 1016-1021	8.5	19
41	. <i>Journal of Lightwave Technology</i> , 2019 , 1-1	4	19
40	Plasmonic nanoparticle-functionalized exposed-core fiber-an optofluidic refractive index sensing platform. <i>Optics Letters</i> , 2017 , 42, 4395-4398	3	19
39	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	3.8	19
38	Third harmonic generation in exposed-core microstructured optical fibers. <i>Optics Express</i> , 2016 , 24, 17860-7	3.3	15
37	Quantification of the fluorescence sensing performance of microstructured optical fibers compared to multi-mode fiber tips. <i>Optics Express</i> , 2016 , 24, 18541-50	3.3	15
36	In Situ Temperature-Compensated DNA Hybridization Detection Using a Dual-Channel Optical Fiber Sensor. <i>Analytical Chemistry</i> , 2021 , 93, 10561-10567	7.8	15
35	Silk: A bio-derived coating for optical fiber sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2020 , 311, 127864	8.5	13
34	All-fiber all-optical quantitative polymerase chain reaction (qPCR). <i>Sensors and Actuators B: Chemical</i> , 2020 , 323, 128681	8.5	13

33	Stability of Grating-Based Optical Fiber Sensors at High Temperature. <i>IEEE Sensors Journal</i> , 2019 , 19, 2978-2983	4	13
32	Temperature independent refractive index measurement using a fiber Bragg grating on abrupt tapered tip. <i>Optics and Laser Technology</i> , 2018 , 101, 227-231	4.2	12
31	Multiplexed Optical Fiber Biochemical Sensing Using Cascaded C-Shaped Fabry-Perot Interferometers. <i>IEEE Sensors Journal</i> , 2019 , 19, 10425-10431	4	11
30	Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors. <i>Advanced Materials</i> , 2020 , 32, e2003826	24	11
29	Generating and measuring photochemical changes inside the brain using optical fibers: exploring stroke. <i>Biomedical Optics Express</i> , 2014 , 5, 3975-80	3.5	9
28	Enzyme activity assays within microstructured optical fibers enabled by automated alignment. <i>Biomedical Optics Express</i> , 2012 , 3, 3304-13	3.5	9
27	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	8.5	9
26	Nanofilm-induced spectral tuning of third harmonic generation. <i>Optics Letters</i> , 2017 , 42, 1812-1815	3	8
25	Multimode exposed core fiber specklegram sensor. <i>Optics Letters</i> , 2020 , 45, 3212-3215	3	8
24	Tunable multi-wavelength third-harmonic generation using exposed-core microstructured optical fiber. <i>Optics Letters</i> , 2019 , 44, 626-629	3	8
23	Sensing in the presence of strong noise by deep learning of dynamic multimode fiber interference. <i>Photonics Research</i> , 2021 , 9, B109	6	8
22	Quantum noise limited nanoparticle detection with exposed-core fiber. <i>Optics Express</i> , 2019 , 27, 18601-18611	3.9	7
21	Genotyping single nucleotide polymorphisms using different molecular beacon multiplexed within a suspended core optical fiber. <i>Sensors</i> , 2014 , 14, 14488-99	3.8	6
20	Simultaneous measurement of temperature and relative humidity using cascaded C-shaped Fabry-Perot interferometers. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	6
19	Distributed optical fiber sensing of micron-scale particles. <i>Sensors and Actuators A: Physical</i> , 2020 , 303, 111762	3.9	6
18	Soft-glass imaging microstructured optical fibers. <i>Optics Express</i> , 2018 , 26, 33604-33612	3.3	5
17	Temperature-Compensated Interferometric High-Temperature Pressure Sensor Using a Pure Silica Microstructured Optical Fiber. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 71, 1-12	5.2	5
16	Optical Fibres for Distributed Corrosion Sensing - Architecture and Characterisation. <i>Key Engineering Materials</i> , 2013 , 558, 522-533	0.4	4

15	Cross-fence comparisons: Theory for spatially comprehensive, controlled variable assessment of treatment effects in managed landscapes. <i>Ecological Informatics</i> , 2011 , 6, 170-176	4.2	4
14	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	8.5	4
13	Exposed-core fiber multimode interference sensor. <i>Results in Optics</i> , 2021 , 5, 100125	1	3
12	Sensing in suspended-core optical fibers 2011 ,		2
11	Exposed-core microstructured fibres for real-time fluorescence sensing 2009 ,		2
10	Whispering gallery mode excitation using exposed-core fiber. <i>Optics Express</i> , 2021 , 29, 23549-23557	3.3	2
9	Design considerations for graded index fiber tip Fabry-Perot interferometers. <i>Measurement Science and Technology</i> , 2021 , 32, 055201	2	2
8	Temperature compensated fiber optic magnetic sensor based on the combination interference principle.. <i>Optics Letters</i> , 2022 , 47, 2558-2561	3	2
7	Temperature compensated magnetic field sensor using magnetic fluid filled exposed core microstructure fiber. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022 , 1-1	5.2	2
6	Combined microfiber knot resonator and focused ion beam-milled Mach-Zehnder interferometer for refractive index measurement 2017 ,		1
5	Wavelength shifted third harmonic generation in an exposed-core microstructured optical fiber 2017 ,		1
4	Tapered optical fiber tip probes based on focused ion beam-milled Fabry-Perot microcavities 2016 ,		1
3	Two-dimensional mapping of surface scatterers on an optical fiber core using selective mode launching. <i>APL Photonics</i> , 2021 , 6, 026105	5.2	1
2	Single-peak fiber Bragg gratings in suspended-core optical fibers. <i>Optics Express</i> , 2020 , 28, 23354-23362	3.3	0
1	Integrated Photonics: Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors (Adv. Mater. 47/2020). <i>Advanced Materials</i> , 2020 , 32, 2070354	24	