Stephen Christopher Warren-Smith

List of Publications by Year in Descending Order

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	Plug-in label-free optical fiber DNA hybridization sensor based on C-type fiber Vernier effect. *Sensors and Actuators B: Chemical*, **2022**, 354, 131212	8.5	4
67	In-situ DNA detection with an interferometric-type optical sensor based on tapered exposed core microstructured optical fiber. *Sensors and Actuators B: Chemical*, **2022**, 351, 130942	8.5	9
66	Temperature-Compensated Interferometric High-Temperature Pressure Sensor Using a Pure Silica Microstructured Optical Fiber. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 71, 1-12	5.2	5
65	Temperature compensated fiber optic magnetic sensor based on the combination interference principle.. *Optics Letters*, **2022**, 47, 2558-2561	3	2
64	Temperature compensated magnetic field sensor using magnetic fluid filled exposed core microstructure fiber. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 1-1	5.2	2
63	Simultaneous measurement of temperature and relative humidity using cascaded C-shaped Fabry-Perot interferometers. *Journal of Lightwave Technology*, **2021**, 1-1	4	6
62	Sensing in the presence of strong noise by deep learning of dynamic multimode fiber interference. *Photonics Research*, **2021**, 9, B109	6	8
61	Whispering gallery mode excitation using exposed-core fiber. *Optics Express*, **2021**, 29, 23549-23557	3.3	2
60	Two-dimensional mapping of surface scatterers on an optical fiber core using selective mode launching. *APL Photonics*, **2021**, 6, 026105	5.2	1
59	Design considerations for graded index fiber tip Fabry–Perot interferometers. *Measurement Science and Technology*, **2021**, 32, 055201	2	2
58	In Situ Temperature-Compensated DNA Hybridization Detection Using a Dual-Channel Optical Fiber Sensor. *Analytical Chemistry*, **2021**, 93, 10561-10567	7.8	15
57	Exposed-core fiber multimode interference sensor. *Results in Optics*, **2021**, 5, 100125	1	3
56	Temperature-Compensated Refractive Index Measurement Using a Dual Fabry–Perot Interferometer Based on C-Fiber Cavity. *IEEE Sensors Journal*, **2020**, 20, 6408-6413	4	26
55	Silk: A bio-derived coating for optical fiber sensing applications. *Sensors and Actuators B: Chemical*, **2020**, 311, 127864	8.5	13
54	Multimode exposed core fiber specklegram sensor. *Optics Letters*, **2020**, 45, 3212-3215	3	8
53	Single-peak fiber Bragg gratings in suspended-core optical fibers. *Optics Express*, **2020**, 28, 23354-23362	3.3	0
52	Distributed optical fiber sensing of micron-scale particles. *Sensors and Actuators A: Physical*, **2020**, 303, 111762	3.9	6

51	Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors. *Advanced Materials*, **2020**, 32, e2003826	24	11
50	Integrated Photonics: Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors (Adv. Mater. 47/2020). *Advanced Materials*, **2020**, 32, 2070354	24	
49	All-fiber all-optical quantitative polymerase chain reaction (qPCR). *Sensors and Actuators B: Chemical*, **2020**, 323, 128681	8.5	13
48	Simultaneous Measurement of Temperature and Refractive Index Using an Exposed Core Microstructured Optical Fiber. *IEEE Journal of Selected Topics in Quantum Electronics*, **2020**, 26, 1-7	3.8	19
47	. *Journal of Lightwave Technology*, **2019**, 1-1	4	19
46	Multiplexed Optical Fiber Biochemical Sensing Using Cascaded C-Shaped Fabry□Perot Interferometers. *IEEE Sensors Journal*, **2019**, 19, 10425-10431	4	11
45	Quantum noise limited nanoparticle detection with exposed-core fiber. *Optics Express*, **2019**, 27, 18601-18611	3.5	7
44	Tunable multi-wavelength third-harmonic generation using exposed-core microstructured optical fiber. *Optics Letters*, **2019**, 44, 626-629	3	8
43	Stability of Grating-Based Optical Fiber Sensors at High Temperature. *IEEE Sensors Journal*, **2019**, 19, 2978-2983	4	13
42	Temperature independent refractive index measurement using a fiber Bragg grating on abrupt tapered tip. *Optics and Laser Technology*, **2018**, 101, 227-231	4.2	12
41	High-sensitivity Sagnac-interferometer biosensor based on exposed core microstructured optical fiber. *Sensors and Actuators B: Chemical*, **2018**, 269, 103-109	8.5	53
40	Nitric oxide optical fiber sensor based on exposed core fibers and CdTe/CdS quantum dots. *Sensors and Actuators B: Chemical*, **2018**, 273, 9-17	8.5	26
39	Soft-glass imaging microstructured optical fibers. *Optics Express*, **2018**, 26, 33604-33612	3.3	5
38	Perspective: Biomedical sensing and imaging with optical fibers□Innovation through convergence of science disciplines. *APL Photonics*, **2018**, 3, 100902	5.2	22
37	Sensing with ultra-short Fabry-Perot cavities written into optical micro-fibers. *Sensors and Actuators B: Chemical*, **2017**, 244, 1016-1021	8.5	19
36	Combined microfiber knot resonator and focused ion beam-milled Mach-Zehnder interferometer for refractive index measurement **2017**,		1
35	Wavelength shifted third harmonic generation in an exposed-core microstructured optical fiber **2017**,		1
34	Nanofilm-induced spectral tuning of third harmonic generation. *Optics Letters*, **2017**, 42, 1812-1815	3	8

33	Plasmonic nanoparticle-functionalized exposed-core fiber-an optofluidic refractive index sensing platform. *Optics Letters*, **2017**, 42, 4395-4398	3	19
32	Third harmonic generation in exposed-core microstructured optical fibers. *Optics Express*, **2016**, 24, 17860-37	3.3	15
31	Simultaneous measurement of temperature and refractive index using focused ion beam milled Fabry-Perot cavities in optical fiber micro-tips. *Optics Express*, **2016**, 24, 14053-65	3.3	63
30	Temperature sensing up to 1300°C using suspended-core microstructured optical fibers. *Optics Express*, **2016**, 24, 3714-9	3.3	37
29	Direct core structuring of microstructured optical fibers using focused ion beam milling. *Optics Express*, **2016**, 24, 378-87	3.3	23
28	Interferometric high temperature sensor using suspended-core optical fibers. *Optics Express*, **2016**, 24, 8967-77	3.3	43
27	Tapered optical fiber tip probes based on focused ion beam-milled Fabry-Perot microcavities **2016**,		1
26	Quantification of the fluorescence sensing performance of microstructured optical fibers compared to multi-mode fiber tips. *Optics Express*, **2016**, 24, 18541-50	3.3	15
25	Interferometric-type optical biosensor based on exposed core microstructured optical fiber. *Sensors and Actuators B: Chemical*, **2015**, 221, 320-327	8.5	31
24	Taming the Light in Microstructured Optical Fibers for Sensing. *International Journal of Applied Glass Science*, **2015**, 6, 229-239	1.8	29
23	Exposed core microstructured optical fiber Bragg gratings: refractive index sensing. *Optics Express*, **2014**, 22, 1480-9	3.3	56
22	Genotyping single nucleotide polymorphisms using different molecular beacon multiplexed within a suspended core optical fiber. *Sensors*, **2014**, 14, 14488-99	3.8	6
21	Fabrication, splicing, Bragg grating writing, and polyelectrolyte functionalization of exposed-core microstructured optical fibers. *Optics Express*, **2014**, 22, 29493-504	3.3	35
20	Generating and measuring photochemical changes inside the brain using optical fibers: exploring stroke. *Biomedical Optics Express*, **2014**, 5, 3975-80	3.5	9
19	Predicting the drawing conditions for Microstructured Optical Fiber fabrication. *Optical Materials Express*, **2014**, 4, 29	2.6	40
18	Optical Fibres for Distributed Corrosion Sensing - Architecture and Characterisation. *Key Engineering Materials*, **2013**, 558, 522-533	0.4	4
17	Identification and quantification of explosives in nanolitre solution volumes by Raman spectroscopy in suspended core optical fibers. *Sensors*, **2013**, 13, 13163-77	3.8	25
16	Enzyme activity assays within microstructured optical fibers enabled by automated alignment. *Biomedical Optics Express*, **2012**, 3, 3304-13	3.5	9

15	Molecular beacons immobilized within suspended core optical fiber for specific DNA detection. *Optics Express*, **2012**, 20, 29378-85	3.3	27
14	Silica exposed-core microstructured optical fibers. *Optical Materials Express*, **2012**, 2, 1538	2.6	65
13	Cross-fence comparisons: Theory for spatially comprehensive, controlled variable assessment of treatment effects in managed landscapes. *Ecological Informatics*, **2011**, 6, 170-176	4.2	4
12	Fluorescence-based aluminum ion sensing using a surface-functionalized microstructured optical fiber. *Langmuir*, **2011**, 27, 5680-5	4	61
11	Sensing in suspended-core optical fibers **2011**,		2
10	Driving down the detection limit in microstructured fiber-based chemical dip sensors. *Sensors*, **2011** , 11, 2961-71	3.8	27
9	Distributed Fluorescence Sensing Using Exposed Core Microstructured Optical Fiber. *IEEE Photonics Technology Letters*, **2010**, 22, 1385-1387	2.2	23
8	Fluorescence-based sensing with optical nanowires: a generalized model and experimental validation. *Optics Express*, **2010**, 18, 9474-85	3.3	27
7	Sensing with suspended-core optical fibers. *Optical Fiber Technology*, **2010**, 16, 343-356	2.4	129
6	Suspended nanowires: fabrication, design and characterization of fibers with nanoscale cores. *Optics Express*, **2009**, 17, 2646-57	3.3	105
5	Exposed-core microstructured optical fibers for real-time fluorescence sensing. *Optics Express*, **2009**, 17, 18533-42	3.3	72
4	Exposed-core microstructured fibres for real-time fluorescence sensing **2009**,		2
3	Enhanced fluorescence sensing using microstructured optical fibers: a comparison of forward and backward collection modes. *Optics Letters*, **2008**, 33, 1473-5	3	49
2	Antibody immobilization within glass microstructured fibers: a route to sensitive and selective biosensors. *Optics Express*, **2008**, 16, 18514-23	3.3	53
1	Enhancement of fluorescence-based sensing using microstructured optical fibres. *Optics Express*, **2007**, 15, 17891-901	3.3	82