Erik P Schartner

List of Publications by Year
in descending order

59 papers	1,727 citations	331670 21 h-index	276875 41 g-index
60 all docs	60 docs citations	60 times ranked	2605 citing authors

#	Article	IF	Citations
1	Single-nanocrystal sensitivity achieved by enhanced upconversion luminescence. Nature Nanotechnology, 2013, 8, 729-734.	31.5	569
2	Sensing with suspended-core optical fibers. Optical Fiber Technology, 2010, 16, 343-356.	2.7	165
3	Detection of gold nanoparticles with different sizes using absorption and fluorescence based method. Sensors and Actuators B: Chemical, 2016, 227, 117-127.	7.8	148
4	Detection of quantum-dot labelled proteins using soft glass microstructured optical fibers. Optics Express, 2007, 15, 17819.	3.4	85
5	Upconversion Nanocrystalâ€Doped Glass: A New Paradigm for Photonic Materials. Advanced Optical Materials, 2016, 4, 1507-1517.	7.3	75
6	Portable optical fiber probe for in vivo brain temperature measurements. Biomedical Optics Express, 2016, 7, 3069.	2.9	61
7	Boronate probes for the detection of hydrogen peroxide release from human spermatozoa. Free Radical Biology and Medicine, 2015, 81, 69-76.	2.9	39
8	A Dual Sensor for pH and Hydrogen Peroxide Using Polymer-Coated Optical Fibre Tips. Sensors, 2015, 15, 31904-31913.	3.8	37
9	Fibre Tip Sensors for Localised Temperature Sensing Based on Rare Earth-Doped Glass Coatings. Sensors, 2014, 14, 21693-21701.	3.8	36
10	Taming the Light in Microstructured Optical Fibers for Sensing. International Journal of Applied Glass Science, 2015, 6, 229-239.	2.0	35
11	Driving down the Detection Limit in Microstructured Fiberâ€Based Chemical Dip Sensors. Sensors, 2011, 11, 2961-2971.	3.8	31
12	Perspective: Biomedical sensing and imaging with optical fibersâ€”Innovation through convergence of science disciplines. APL Photonics, 2018, 3, .	5.7	31
13	Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors. Advanced Materials, 2020, 32, e2003826.	21.0	31
14	Miniaturized single-fiber-based needle probe for combined imaging and sensing in deep tissue. Optics Letters, 2018, 43, 1682.	3.3	27
15	All-fiber all-optical quantitative polymerase chain reaction (qPCR). Sensors and Actuators B: Chemical, 2020, 323, 128681.	7.8	27
16	Cancer Detection in Human Tissue Samples Using a Fiber-Tip pH Probe. Cancer Research, 2016, 76, 6795-6801.	0.9	26
17	Stability of Grating-Based Optical Fiber Sensors at High Temperature. IEEE Sensors Journal, 2019, 19, 2978-2983.	4.7	26
18	Silk: A bio-derived coating for optical fiber sensing applications. Sensors and Actuators B: Chemical, 2020, 311, 127864.	7.8	24

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19	Plasmonic nanoparticle-functionalized exposed-core fiberâ€”an optofluidic refractive index sensing platform. Optics Letters, 2017, 42, 4395.	3.3	22
20	Single-ring hollow core optical fibers made by glass billet extrusion for Raman sensing. Optics Express, 2016, 24, 5911.	3.4	21
21	Measuring and tracking vitamin B12: A review of current methods with a focus on optical spectroscopy. Applied Spectroscopy Reviews, 2017, 52, 439-455.	6.7	21
22	Quantification of the fluorescence sensing performance of microstructured optical fibers compared to multi-mode fiber tips. Optics Express, 2016, 24, 18541.	3.4	20
23	Lanthanide upconversion within microstructured optical fibers: improved detection limits for sensing and the demonstration of a new tool for nanocrystal characterization. Nanoscale, 2012, 4, 7448.	5.6	18
24	Fabrication of low-loss, small-core exposed core microstructured optical fibers. Optical Materials Express, 2017, 7, 1496.	3.0	17
25	Generating and measuring photochemical changes inside the brain using optical fibers: exploring stroke. Biomedical Optics Express, 2014, 5, 3975.	2.9	16
26	Novel imaging tools for investigating the role of immune signalling in the brain. Brain, Behavior, and Immunity, 2016, 58, 40-47.	4.1	12
27	Enzyme activity assays within microstructured optical fibers enabled by automated alignment. Biomedical Optics Express, 2012, 3, 3304.	2.9	11
28	Improved method for optical fiber temperature probe implantation in brains of free-moving rats. Journal of Neuroscience Methods, 2019, 313, 24-28.	2.5	11
29	Tunable multi-wavelength third-harmonic generation using exposed-core microstructured optical fiber. Optics Letters, 2019, 44, 626.	3.3	9
30	Quantum noise limited nanoparticle detection with exposed-core fiber. Optics Express, 2019, 27, 18601.	3.4	8
31	A biophotonic approach to measure pH in small volumes in vitro: Quantifiable differences in metabolic flux around the cumulusâ€oocyteâ€complex (COC). Journal of Biophotonics, 2020, 13, e201960038.	2.3	7
32	Short-Range Non-Bending Fully Distributed Water/Humidity Sensors. Journal of Lightwave Technology, 2019, 37, 2014-2022.	4.6	6
33	Resonanceâ€Induced Dispersion Tuning for Tailoring Nonsolitonic Radiation via Nanofilms in Exposed Core Fibers. Laser and Photonics Reviews, 2020, 14, 1900418.	8.7	6
34	A Silkâ€Based Functionalization Architecture for Single Fiber Imaging and Sensing. Advanced Functional Materials, 2022, 32, 2010713.	14.9	6
35	Tailored Multiâ€Color Dispersive Wave Formation in Quasiâ€Phaseâ€Matched Exposed Core Fibers. Advanced Science, 2022, 9, e2103864.	11.2	6
36	The effect of discrete wavelengths of visible light on the developing murine embryo. Journal of Assisted Reproduction and Genetics, 2022, 39, 1825-1837.	2.5	5

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37	Localised hydrogen peroxide sensing for reproductive health. Proceedings of SPIE, 2015, , .	0.8	3
38	A portable optical fiber pH probe for cancer margin detection. , 2016, , .		3
39	Single-peak fiber Bragg gratings in suspended-core optical fibers. Optics Express, 2020, 28, 23354.	3.4	3
40	An optical fibre protein sensor. , 2007, , .		2
41	Fusion splicing soft-glass suspended core fibers to solid silica fibers for optical fiber sensing. , 2010, , .		2
42	Low concentration fluorescence sensing in suspended-core fibers. , 2011, , .		2
43	Sensitive detection of NaYF4: Yb/Tm nanoparticles using suspended core microstructured optical fibers. , 2013, , .		2
44	Fibre tip pH sensor for tumor detection during surgery. , 2015, , .		2
45	Minocycline attenuates 3,4-methylenedioxymethamphetamine-induced hyperthermia in the rat brain. European Journal of Pharmacology, 2019, 858, 172495.	3.5	2
46	Longitudinally thickness-controlled nanofilms on exposed core fibres enabling spectrally flattened supercontinuum generation. Light Advanced Manufacturing, 2021, 2, 1.	5.1	2
47	Sensitive fluorescence detection with microstructured optical fibers. , 2011, , .		1
48	Protein detection enabled using functionalised silk-binding peptides on a silk-coated optical fibre. RSC Advances, 2021, 11, 22334-22342.	3.6	1
49	An optical fibre protein sensor. , 2007, , .		1
50	Upconversion Nanocrystals Doped Glass: A New Paradigm for Integrated Optical Glass. , 2016, , .		1
51	A portable optical fiber probe for in vivo brain temperature measurements. Proceedings of SPIE, 2016, , .	0.8	1
52	New Tools for Measurement: Opportunities for Sensing Chemicals or Biomolecules with Optical Fibers. , 2013, , .		0
53	Simple fabrication method for point temperature sensor probes using erbium ytterbium-coated optical fibres. , 2014, , .		0
54	Biosensors for detecting stress in developing embryos. Proceedings of SPIE, 2016, , .	0.8	0

#	Article	IF	Citations
55	A portable device for cancer margin assessment using a pH sensitive optical fibre probe. , 2017, , .		0
56	Integrated Photonics: Scalable Functionalization of Optical Fibers Using Atomically Thin Semiconductors (Adv. Mater. 47/2020). Advanced Materials, 2020, 32, 2070354.	21.0	0
57	Comparison of the Fluorescence Sensing Performance of Microstructured Optical Fibres and Multi-mode Fibre Tips. , 2016, , .		0
58	A simple optical fibre probe for differentiation between healthy and tumorous tissue. Proceedings of SPIE, 2016, , .	0.8	0
59	Single-fiber-based probe for combined imaging and pH sensing. , 2021, , .		0