

Shahraam Afshar V

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8293067/shahraam-afshar-v-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

2,367
citations

26
h-index

47
g-index

128
ext. papers

2,874
ext. citations

3.3
avg, IF

4.96
L-index

#	Paper	IF	Citations
94	A full vectorial model for pulse propagation in emerging waveguides with subwavelength structures part I: Kerr nonlinearity. <i>Optics Express</i> , 2009 , 17, 2298-318	3.3	247
93	Terahertz dielectric waveguides. <i>Advances in Optics and Photonics</i> , 2013 , 5, 169	16.7	193
92	THz porous fibers: design, fabrication and experimental characterization. <i>Optics Express</i> , 2009 , 17, 14053-5062	3.5	170
91	Porous fibers: a novel approach to low loss THz waveguides. <i>Optics Express</i> , 2008 , 16, 8845-54	3.3	149
90	Sensing with suspended-core optical fibers. <i>Optical Fiber Technology</i> , 2010 , 16, 343-356	2.4	129
89	Dependence of the Brillouin frequency shift on strain and temperature in a photonic crystal fiber. <i>Optics Letters</i> , 2004 , 29, 1485-7	3	102
88	Enhancement of fluorescence-based sensing using microstructured optical fibres. <i>Optics Express</i> , 2007 , 15, 17891-901	3.3	82
87	Low loss, low dispersion and highly birefringent terahertz porous fibers. <i>Optics Communications</i> , 2009 , 282, 36-38	2	77
86	Diamond in tellurite glass: a new medium for quantum information. <i>Advanced Materials</i> , 2011 , 23, 2806-14	10	59
85	Small core optical waveguides are more nonlinear than expected: experimental confirmation. <i>Optics Letters</i> , 2009 , 34, 3577-9	3	53
84	Theoretical study of liquid-immersed exposed-core microstructured optical fibers for sensing. <i>Optics Express</i> , 2008 , 16, 9034-45	3.3	53
83	Polymer based whispering gallery mode laser for biosensing applications. <i>Applied Physics Letters</i> , 2015 , 106, 031104	3.4	49
82	Lead-germanate glasses and fibers: a practical alternative to tellurite for nonlinear fiber applications. <i>Optical Materials Express</i> , 2013 , 3, 1488	2.6	49
81	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
80	Effect of the finite extinction ratio of an electro-optic modulator on the performance of distributed probe-pump Brillouin sensor systems. <i>Optics Letters</i> , 2003 , 28, 1418-20	3	41
79	Distributed Brillouin scattering sensor for discrimination of wall-thinning defects in steel pipe under internal pressure. <i>Applied Optics</i> , 2004 , 43, 1583-8	1.7	40
78	A genetic algorithm based approach to fiber design for high coherence and large bandwidth supercontinuum generation. <i>Optics Express</i> , 2009 , 17, 19311-27	3.3	38

77	Light confinement within nanoholes in nanostructured optical fibers. <i>Optics Express</i> , 2010 , 18, 26018-26	3.3	37
76	Direct probing of evanescent field for characterization of porous terahertz fibers. <i>Applied Physics Letters</i> , 2011 , 98, 121104	3.4	36
75	Bandgaps and antiresonances in integrated-ARROWs and Bragg fibers; a simple model. <i>Optics Express</i> , 2008 , 16, 17935-51	3.3	33
74	Magnetically sensitive nanodiamond-doped tellurite glass fibers. <i>Scientific Reports</i> , 2018 , 8, 1268	4.9	31
73	Fabrication and supercontinuum generation in dispersion flattened bismuth microstructured optical fiber. <i>Optics Express</i> , 2011 , 19, 21135-44	3.3	29
72	Cleaving of Extremely Porous Polymer Fibers. <i>IEEE Photonics Journal</i> , 2009 , 1, 286-292	1.8	29
71	Fluorescence-based sensing with optical nanowires: a generalized model and experimental validation. <i>Optics Express</i> , 2010 , 18, 9474-85	3.3	27
70	Bragg waveguides with low-index liquid cores. <i>Optics Express</i> , 2012 , 20, 48-62	3.3	27
69	A full vectorial model for pulse propagation in emerging waveguides with subwavelength structures part II: Stimulated Raman Scattering. <i>Optics Express</i> , 2009 , 17, 11565-81	3.3	27
68	Material candidates for optical frequency comb generation in microspheres. <i>Optics Express</i> , 2015 , 23, 14784-95	3.3	23
67	Optimization of whispering gallery resonator design for biosensing applications. <i>Optics Express</i> , 2015 , 23, 17067-76	3.3	22
66	Understanding the contribution of mode area and slow light to the effective Kerr nonlinearity of waveguides. <i>Optics Express</i> , 2013 , 21, 18558-71	3.3	22
65	Novel Low-Loss Bandgaps in All-Silica Bragg Fibers. <i>Journal of Lightwave Technology</i> , 2008 , 26, 43-51	4	22
64	Characterisation of a real-time fibre-coupled beryllium oxide (BeO) luminescence dosimeter in X-ray beams. <i>Radiation Measurements</i> , 2013 , 53-54, 1-7	1.5	21
63	Nature of intensity and phase modulations in stimulated Brillouin scattering. <i>Physical Review A</i> , 1998 , 57, 3961-3971	2.6	21
62	Ultrafast pulse generation in a mode-locked Erbium chip waveguide laser. <i>Optics Express</i> , 2016 , 24, 27173-27183	3.3	19
61	Plasmonic materials for metal-insulator-semiconductor-insulator-metal nanoplasmonic waveguides on silicon-on-insulator platform. <i>Optical Materials</i> , 2013 , 36, 294-298	3.3	19
60	Novel polymer functionalization method for exposed-core optical fiber. <i>Optical Materials Express</i> , 2014 , 4, 1515	2.6	18

59	Enhancing the radiation efficiency of dye doped whispering gallery mode microresonators. <i>Optics Express</i> , 2013 , 21, 22566-77	3.3	18
58	Efficient third and one-third harmonic generation in nonlinear waveguides. <i>Optics Letters</i> , 2013 , 38, 329-31		18
57	Method for predicting whispering gallery mode spectra of spherical microresonators. <i>Optics Express</i> , 2015 , 23, 9924-37	3.3	17
56	Enhancement of stimulated Brillouin scattering of higher-order acoustic modes in single-mode optical fiber. <i>Optics Letters</i> , 2005 , 30, 2685-7	3	15
55	Investigation of a fibre-coupled beryllium oxide (BeO) ceramic luminescence dosimetry system. <i>Radiation Measurements</i> , 2014 , 70, 52-58	1.5	14
54	Dipole emitters in fiber: interface effects, collection efficiency and optimization. <i>Optics Express</i> , 2011 , 19, 16182-94	3.3	14
53	Energy dependency of a water-equivalent fibre-coupled beryllium oxide (BeO) dosimetry system. <i>Radiation Measurements</i> , 2015 , 73, 1-6	1.5	13
52	Light Enhancement Within Nanoholes in High Index Contrast Nanowires. <i>IEEE Photonics Journal</i> , 2011 , 3, 130-139	1.8	13
51	Strong Magnetic Response of Optical Nanofibers. <i>ACS Photonics</i> , 2016 , 3, 972-978	6.3	13
50	Record nonlinearity in optical fibre. <i>Electronics Letters</i> , 2008 , 44, 1453	1.1	12
49	Unified theory of whispering gallery multilayer microspheres with single dipole or active layer sources. <i>Optics Express</i> , 2017 , 25, 6192-6214	3.3	11
48	Evaluation of a real-time BeO ceramic fiber-coupled luminescence dosimetry system for dose verification of high dose rate brachytherapy. <i>Medical Physics</i> , 2015 , 42, 6349-56	4.4	10
47	Full vectorial analysis of polarization effects in optical nanowires. <i>Optics Express</i> , 2012 , 20, 14514-33	3.3	10
46	Subpeaks in the Brillouin loss spectra of distributed fiber-optic sensors. <i>Optics Letters</i> , 2005 , 30, 1099-101		10
45	Self-formed cavity quantum electrodynamics in coupled dipole cylindrical-waveguide systems. <i>Optics Express</i> , 2014 , 22, 11301-11	3.3	9
44	A new fitting method for spectral characterization of Brillouin-based distributed sensors 2003 ,		9
43	Synchronised dual-wavelength mode-locking in waveguide lasers. <i>Scientific Reports</i> , 2018 , 8, 7821	4.9	9
42	Design and optimization of fiber optical parametric oscillators for femtosecond pulse generation. <i>Optics Express</i> , 2010 , 18, 17294-305	3.3	8

41	Optimal light collection from diffuse sources: application to optical fibre-coupled luminescence dosimetry. <i>Optics Express</i> , 2014 , 22, 4559-74	3.3	7
40	Emerging Nonlinear Optical Fibers: Revised Fundamentals, Fabrication and Access to Extreme Nonlinearity. <i>IEEE Journal of Quantum Electronics</i> , 2009 , 45, 1357-1364	2	7
39	Brillouin spectral deconvolution method for centimeter spatial resolution and high-accuracy strain measurement in Brillouin sensors. <i>Optics Letters</i> , 2005 , 30, 705-7	3	7
38	A TRANSIENT, THREE-DIMENSIONAL MODEL OF STIMULATED BRILLOUIN SCATTERING. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2001 , 10, 1-27	0.8	7
37	High stability supercontinuum generation in lead silicate SF57 photonic crystal fibers. <i>Chinese Physics B</i> , 2013 , 22, 014215	1.2	6
36	Modification of well-aligned carbon nanotubes with dihexadecyl hydrogen phosphate: application to highly sensitive nanomolar detection of simvastatin. <i>Journal of Applied Electrochemistry</i> , 2014 , 44, 263-277	2.6	5
35	Nonlinear polarization bistability in optical nanowires. <i>Optics Letters</i> , 2011 , 36, 588-90	3	5
34	Microwire fibers for low-loss THz transmission 2006 ,		5
33	Cross mode and polarization mixing in third and one-third harmonic generation in multi-mode waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015 , 32, 379	1.7	4
32	Enhanced terahertz magnetic dipole response by subwavelength fiber. <i>APL Photonics</i> , 2018 , 3, 051701	5.2	4
31	Direct decoding of nonlinear OFDM-QAM signals using convolutional neural network. <i>Optics Express</i> , 2021 , 29, 11591-11604	3.3	4
30	Evaluation of silica and PMMA optical fibre response when irradiated with 16.5 MeV protons. <i>Physica Medica</i> , 2019 , 65, 15-20	2.7	3
29	Suspended Core Fibers for the Transmission of Cylindrical Vector Modes. <i>Journal of Lightwave Technology</i> , 2016 , 34, 5620-5626	4	3
28	Evaluation of a real-time optically stimulated luminescence beryllium oxide (BeO) fibre-coupled dosimetry system with a superficial 140 kVp X-ray beam. <i>Physica Medica</i> , 2019 , 65, 167-171	2.7	3
27	Experimental investigation of dispersion properties of THz porous fibers 2009 ,		3
26	Determining the geometric parameters of microbubble resonators from their spectra. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017 , 34, 44	1.7	3
25	Radiated and guided optical waves of a magnetic dipole-nanofiber system. <i>Scientific Reports</i> , 2019 , 9, 3568	4.9	2
24	Nonlinear self-polarization flipping in silicon sub-wavelength waveguides: distortion, loss, dispersion, and noise effects. <i>Optics Express</i> , 2014 , 22, 27643-54	3.3	2

23	Nonlinear Self-Flipping of Polarization States in Asymmetric Waveguides. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 1453-1456	2.2	2
22	Nonlinearity enhancement of filled microstructured fibers operating in the nanowire regime 2006 ,		2
21	Terahertz Waveguides and Materials 2006 ,		2
20	Towards new fiber optic sensors based on the vapor deposited conducting polymer PEDOT:Tos. <i>Optical Materials Express</i> , 2019 , 9, 4517	2.6	2
19	A Fibre-Optic Platform for Sensing Nitrate Using Conducting Polymers. <i>Sensors</i> , 2020 , 21,	3.8	2
18	Preferential coupling of diamond NV centres in step-index fibres. <i>Optics Express</i> , 2021 , 29, 14425-14437	3.3	2
17	Steady-state and travelling wave solutions with nonlinear polarization attraction. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, 996	1.7	2
16	Using CFD to derive reduced order models for heat transfer in particle curtains. <i>Progress in Computational Fluid Dynamics</i> , 2015 , 15, 71	0.7	1
15	Efficient excitation of surface plasmons in metal nanorods using large longitudinal component of high index nano fibers. <i>Optics Express</i> , 2011 , 19, 13464-79	3.3	1
14	Impact of EOM extinction ratio on the Brillouin frequency measurement of distributed fiber optic sensors 2003 , 5260, 519		1
13	High accuracy temperature and strain measurement with cm spatial resolution for distributed Brillouin-based fiber optic sensors 2004 , 5579, 22		1
12	A six-strut suspended core fiber for cylindrical vector mode generation and propagation. <i>Optics Express</i> , 2018 , 26, 32037-32047	3.3	1
11	Experimental confirmation of a generalized definition of the effective nonlinear coefficient in emerging waveguides with subwavelength structures 2009 ,		1
10	Temporal modelling of beryllium oxide ceramics Real-time OSL for dosimetry with a superficial 140kVp X-ray beam. <i>Physica Medica</i> , 2020 , 80, 17-22	2.7	1
9	A method for refractive index measurement of a liquid in a suspended core fiber using Brillouin dynamic grating. <i>Journal of Modern Optics</i> , 2013 , 60, 342-349	1.1	0
8	Development of an optical fibre based redox monitoring system for tissue metabolism.. <i>Journal of Biophotonics</i> , 2022 , e202100304	3.1	0
7	Realization of a Single-Layer Terahertz Magnetic Mirror. <i>IEEE Access</i> , 2020 , 8, 229108-229116	3.5	0
6	Serial and parallel convolutional neural network schemes for NFDM signals.. <i>Scientific Reports</i> , 2022 , 12, 7962	4.9	0

- 5 Dipole-fiber system: from single photon source to metadevices. *Frontiers of Optoelectronics*, **2018**, 11, 30-36 2.8
- 4 Highly Nonlinear and Dispersion-Flattened Fiber Design for Ultrafast Phase-Sensitive Amplification. *Journal of Lightwave Technology*, **2012**, 30, 3440-3447 4
- 3 Determining the geometric parameters of microbubble resonators from their spectra. *Journal of the Optical Society of America B: Optical Physics*, **2017**, 34, 2699 1.7
- 2 Design and verification of an external radiobiological beam port on a 16.5 MeV GE PETtrace proton cyclotron. *Medical Physics*, **2020**, 47, 393-403 4.4
- 1 Combining whispering gallery mode lasers and microstructured optical fibers: limitations, applications and perspectives for in-vivo biosensing. *MRS Advances*, **2016**, 1, 2309-2320 0.7