

Alexander Argyros

List of Publications by Year in descending order

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137
papers

4,438
citations

117453

34
h-index

110170

64
g-index

137
all docs

137
docs citations

137
times ranked

2472
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructured polymer optical fibre. Optics Express, 2001, 9, 319.	1.7	313
2	Photonic lanterns: a study of light propagation in multimode to single-mode converters. Optics Express, 2010, 18, 8430.	1.7	206
3	Continuous wave ultraviolet light-induced fiber Bragg gratings in few- and single-mode microstructured polymer optical fibers. Optics Letters, 2005, 30, 3296.	1.7	182
4	Photonic bandgap with an index step of one percent. Optics Express, 2005, 13, 309.	1.7	165
5	Liquid-filled hollow core microstructured polymer optical fiber. Optics Express, 2006, 14, 4135.	1.7	161
6	Hybrid Optical Fibers – An Innovative Platform for In-Fiber Photonic Devices. Advanced Optical Materials, 2016, 4, 13-36.	3.6	153
7	Microstructured Polymer Optical Fibers. Journal of Lightwave Technology, 2009, 27, 1571-1579.	2.7	128
8	Characterization of a microstructured Zeonex terahertz fiber. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1013.	0.9	124
9	Metamaterial fibres for subdiffraction imaging and focusing at terahertz frequencies over optically long distances. Nature Communications, 2013, 4, 2706.	5.8	121
10	Thermal response of Bragg gratings in PMMA microstructured optical fibers. Optics Express, 2007, 15, 8844.	1.7	119
11	THz propagation in kagome hollow-core microstructured fibers. Optics Express, 2011, 19, 18470.	1.7	111
12	Flexible tube lattice fibers for terahertz applications. Optics Express, 2013, 21, 3388.	1.7	111
13	Ring structures in microstructured polymer optical fibres. Optics Express, 2001, 9, 813.	1.7	109
14	Transmission of terahertz radiation using a microstructured polymer optical fiber. Optics Letters, 2008, 33, 902.	1.7	109
15	Hollow-core polymer fibres with a kagome lattice: potential for transmission in the infrared. Optics Express, 2007, 15, 7713.	1.7	107
16	Guidance properties of low-contrast photonic bandgap fibres. Optics Express, 2005, 13, 2503.	1.7	105
17	Photonic lanterns. Nanophotonics, 2013, 2, 429-440.	2.9	103
18	Recent progress in microstructured polymer optical fibre fabrication and characterisation. Optical Fiber Technology, 2003, 9, 199-209.	1.4	99

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19	Hollow-core microstructured polymer optical fiber. Optics Letters, 2006, 31, 172.	1.7	88
20	Surface enhanced Raman scattering in a hollow core microstructured optical fiber. Optics Express, 2007, 15, 13675.	1.7	85
21	A loss-based, magnetic field sensor implemented in a ferrofluid infiltrated microstructured polymer optical fiber. Applied Physics Letters, 2014, 104, .	1.5	69
22	Guided modes and loss in Bragg fibres. Optics Express, 2002, 10, 1411.	1.7	64
23	Antiresonant reflection and inhibited coupling in hollow-core square lattice optical fibres. Optics Express, 2008, 16, 5642.	1.7	64
24	Stable imprinting of long-period gratings in microstructured polymer optical fibre. Optics Express, 2006, 14, 4644.	1.7	63
25	Microstructures in Polymer Fibres for Optical Fibres, THz Waveguides, and Fibre-Based Metamaterials. , 2013, 2013, 1-22.		61
26	Elimination of polarization degeneracy in round waveguides. Optics Express, 2002, 10, 1342.	1.7	58
27	Flexible single-mode hollow-core terahertz fiber with metamaterial cladding. Optica, 2016, 3, 941.	4.8	58
28	Stacked-and-drawn metamaterials with magnetic resonances in the terahertz range. Optics Express, 2011, 19, 16480.	1.7	55
29	Solution doping of microstructured polymer optical fibres. Optics Express, 2004, 12, 1966.	1.7	49
30	Coupling in a twin-core microstructured polymer optical fiber. Applied Physics Letters, 2004, 84, 1689-1691.	1.5	46
31	Hollow-core waveguides with uniaxial metamaterial cladding: modal equations and guidance conditions. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2462.	0.9	40
32	Refractive index sensor based on a polymer fiber directional coupler for low index sensing. Optics Express, 2014, 22, 17497.	1.7	38
33	Microstructured Polymer Optical Fibres: New Opportunities and Challenges. Molecular Crystals and Liquid Crystals, 2006, 446, 219-231.	0.4	37
34	Polycarbonate hollow-core microstructured optical fiber. Optics Letters, 2008, 33, 2446.	1.7	36
35	Quantum dot and silica nanoparticle doped polymer optical fibers. Optics Express, 2007, 15, 9989.	1.7	34
36	Hybrid hollow core fibers with embedded wires as THz waveguides. Optics Express, 2013, 21, 2903.	1.7	34

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37	Fiber-drawn double split ring resonators in the terahertz range. <i>Optical Materials Express</i> , 2012, 2, 1254.	1.6	33
38	Bandwidth and loss measurements of graded-index microstructured polymer optical fibre. <i>Electronics Letters</i> , 2004, 40, 592.	0.5	32
39	Microstructured polymer fiber laser. <i>Optics Letters</i> , 2004, 29, 1882.	1.7	32
40	Hollow-core uniaxial metamaterial clad fibers with dispersive metamaterials. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 851.	0.9	31
41	Reducing the Size of Hollow Terahertz Waveguides. <i>Journal of Lightwave Technology</i> , 2011, 29, 97-103.	2.7	29
42	Water Diffusion Into UV Inscripted Long Period Grating in Microstructured Polymer Fiber. <i>IEEE Sensors Journal</i> , 2010, 10, 1169-1173.	2.4	26
43	Pure chiral optical fibres. <i>Optics Express</i> , 2011, 19, 968.	1.7	26
44	Twin-hollow-core optical fibres. <i>Optics Communications</i> , 2009, 282, 1785-1788.	1.0	24
45	Investigation of Flexible Low-Loss Hollow-Core Fibres With Tube-Lattice Cladding for Terahertz Radiation. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 214-220.	1.9	24
46	Microstructured optical fiber for single-polarization air guidance. <i>Optics Letters</i> , 2004, 29, 20.	1.7	23
47	Multiplexed FBC sensor recorded in multimode microstructured polymer optical fibre. <i>Proceedings of SPIE</i> , 2010, , .	0.8	23
48	Indefinite Media Based on Wire Array Metamaterials for the THz and Mid-IR. <i>Advanced Optical Materials</i> , 2013, 1, 971-977.	3.6	23
49	Temperature effects on emission of quantum dots embedded in polymethylmethacrylate. <i>Applied Optics</i> , 2010, 49, 2749.	2.1	22
50	Small-core single-mode microstructured polymer optical fiber with large external diameter. <i>Optics Letters</i> , 2004, 29, 818.	1.7	21
51	Circular and elliptical birefringence in spun microstructured optical fibres. <i>Optics Express</i> , 2009, 17, 15983.	1.7	21
52	Multicore composite single-mode polymer fiber. <i>Optics Express</i> , 2012, 20, 141.	1.7	21
53	Elliptical metallic hollow fiber inner-coated with non-uniform dielectric layer. <i>Optics Express</i> , 2015, 23, 22587.	1.7	21
54	Ultrabroadband perfect imaging in terahertz wire media using single-cycle pulses. <i>Optica</i> , 2016, 3, 458.	4.8	21

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55	Analysis of ring-structured Bragg fibres for single TE mode guidance. Optics Express, 2004, 12, 2688.	1.7	20
56	Bend loss in highly multimode fibres. Optics Express, 2008, 16, 18590.	1.7	20
57	Solid-core fiber with ultra-wide bandwidth transmission window due to inhibited coupling. Optics Express, 2010, 18, 25556.	1.7	20
58	Identifying hollow waveguide guidance in air-cored microstructured optical fibres. Optics Express, 2003, 11, 996.	1.7	19
59	Imaging performance of finite uniaxial metamaterials with large anisotropy. Optics Letters, 2014, 39, 3286.	1.7	19
60	Fabricating Metamaterials Using the Fiber Drawing Method. Journal of Visualized Experiments, 2012, , .	0.2	18
61	A prism based magnifying hyperlens with broad-band imaging. Applied Physics Letters, 2017, 110, .	1.5	18
62	Fiber-Drawn Metamaterial for THz Waveguiding and Imaging. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1162-1178.	1.2	18
63	Tunable metamaterials fabricated by fiber drawing. Journal of the Optical Society of America B: Optical Physics, 2017, 34, D81.	0.9	18
64	Menthol-based chiral copolymers for polymer optical fibres (POF). Polymer Chemistry, 2011, 2, 2045.	1.9	17
65	Low Loss and Temperature Stable Microstructured Polymer Optical Fibers. Journal of Lightwave Technology, 2012, 30, 192-197.	2.7	16
66	Investigation of Plateauâ€“Rayleigh Instability in Drawn Metalâ€“Polymer Composite Fibers for Metamaterials Fabrication. Journal of Lightwave Technology, 2016, 34, 2198-2205.	2.7	15
67	Spatial dispersion in three-dimensional drawn magnetic metamaterials. Optics Express, 2012, 20, 11924.	1.7	14
68	Terahertz Spectroscopy and Imaging With Flexible Tube-Lattice Fiber Probe. Journal of Lightwave Technology, 2014, 32, 4621-4627.	2.7	14
69	Enhanced magneto-optical effect in cobalt nanoparticle-doped optical fiber. Applied Optics, 2008, 47, 6497.	2.1	13
70	Temperature sensitivity of Bragg gratings in PMMA and TOPAS microstructured polymer optical fibres. Proceedings of SPIE, 2008, , .	0.8	13
71	All-plastic fiber-based pressure sensor. Applied Optics, 2016, 55, 811.	2.1	13
72	Consideration of chiral optical fibres. Frontiers of Optoelectronics in China, 2010, 3, 67-70.	0.2	12

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73	Electromagnetic Wave Propagation Through Air-Core Waveguide With Metamaterial Cladding. Journal of Lightwave Technology, 2016, 34, 5317-5324.	2.7	12
74	Spectroscopy of 3D-trapped particles inside a hollow-core microstructured optical fiber. Optics Express, 2012, 20, 11232.	1.7	11
75	Luminescent solar concentrators utilizing stimulated emission. Optics Express, 2016, 24, A497.	1.7	11
76	Metal selection for wire array metamaterials for infrared frequencies. Optics Express, 2015, 23, 29867.	1.7	10
77	Holey fiber mode-selective couplers. Optics Express, 2015, 23, 18888.	1.7	9
78	Towards subdiffraction imaging with wire array metamaterial hyperlenses at MIR frequencies. Optics Express, 2019, 27, 21420.	1.7	9
79	Emission properties of quantum dots in polymer optical fibres. Optics Express, 2009, 17, 21344.	1.7	8
80	Multimodal optogenetic neural interfacing device fabricated by scalable optical fiber drawing technique. Applied Optics, 2015, 54, 10068.	2.1	8
81	3D-printed terahertz Bragg fiber. , 2015, , .		8
82	Modeling of stimulated emission based luminescent solar concentrators. Optics Express, 2016, 24, A1546.	1.7	8
83	7.3-Gb/s Transmission Over Microstructured Polymer Optical Fiber for In-Home Networks. IEEE Photonics Technology Letters, 2012, 24, 1257-1259.	1.3	7
84	Optical gain characterization of Perylene Red-doped PMMA for different pump configurations. Applied Optics, 2016, 55, 178.	2.1	7
85	Fabrication of Soft-Glass-Based Wire Array Metamaterial Fibers for Applications at Infrared Frequencies. Journal of Lightwave Technology, 2019, 37, 5001-5009.	2.7	7
86	Removing image artefacts in wire array metamaterials. Optics Express, 2016, 24, 17989.	1.7	6
87	Heat Transfer Modeling of the Capillary Fiber Drawing Process. Journal of Heat Transfer, 2017, 139, .	1.2	6
88	Analysis of Capillary Instability in Metamaterials Fabrication Using Fiber Drawing Technology. Journal of Lightwave Technology, 2017, 35, 2167-2174.	2.7	6
89	<title>Microstructured polymer optical fibers: progress and promise</title>. , 2002, , .		5
90	Reply to comment on "Microstructured polymer fiber laser". Optics Letters, 2005, 30, 1829.	1.7	5

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91	Strain sensing using long period gratings in microstructured polymer optical fibres. Proceedings of SPIE, 2011, , .	0.8	5
92	Guided modes of a wire medium slab: Comparison of effective medium approaches with exact calculations. Physical Review B, 2015, 91, .	1.1	5
93	Increasing the Numerical Aperture of Large-Core Microstructured Polymer Optical Fibers Using a Λ -Bridge Cladding. Journal of Lightwave Technology, 2009, 27, 1610-1616.	2.7	4
94	Small-core single-mode microstructured polymer optical fiber with large external diameter:â€ferratum. Optics Letters, 2004, 29, 1560.	1.7	3
95	Transmission characteristics of lens-duct and photonic crystal waveguides in the terahertz region. Journal of the Optical Society of America B: Optical Physics, 2009, 26, A95.	0.9	3
96	A complementary study to â€œHybrid hollow core fibers with embedded wires as THz waveguidesâ€•and â€œTwo-wire terahertz fibers with porous dielectric support:â€•comment. Optics Express, 2013, 21, 27802.	1.7	3
97	Low loss microstructured Polymer Optical Fibre (mPOF). , 2011, , .		3
98	Hybrid Optical Fibers: Hybrid Optical Fibers â€œ An Innovative Platform for Inâ€Fiber Photonic Devices (Advanced Optical Materials 1/2016). Advanced Optical Materials, 2016, 4, 12-12.	3.6	2
99	Metamaterial hyperlenses for extreme sub-diffraction focusing of THz radiation. , 2018, , .		2
100	Photonic lantern mode evolution: A multicore geometry study. , 2010, , .		1
101	Wideband, low loss Terahertz propagation through kagome air-core microstructured fibers. , 2011, , .		1
102	A ferrofluid infiltrated polymeric microstructured optical fiber sensor for magnetic field measurements. , 2012, , .		1
103	Metamaterials Fabricated by Drawing. , 2012, , .		1
104	Wire arrays fabricated by drawing for THz and IR metamaterials. , 2012, , .		1
105	Metal-Polymer Composite Fibres for Metamaterials Fabrication and their Applications. , 2014, , .		1
106	Multigigabit short-reach communication over microstructured polymer optical fiber. Optical Fiber Technology, 2017, 34, 65-69.	1.4	1
107	Experimental demonstration of a magnifying prism hyperlens at THz frequencies. , 2017, , .		1
108	Dispersion control in coated wire media slabs. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 472.	0.9	1

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109	Subwavelength Imaging and Cavities Using Wire Array Fibres. , 2015, , .		1
110	Future directions for microstructured polymer optical fibers. , 2004, 5360, 259.		0
111	Hollow-core kagome lattice polymer optical fibres. , 2007, , .		0
112	High sensitivity surface enhanced Raman scattering detection in hollow core microstructured optical fibre. , 2007, , .		0
113	Hollow-core and photonic bandgap optical fibres. , 2009, , .		0
114	Impact of polymer material properties on microstructured optical fibres. Frontiers of Optoelectronics in China, 2010, 3, 99-102.	0.2	0
115	Hollow THz waveguide designs. , 2010, , .		0
116	Polymer optical fibre (POF) from p(methyl methacrylate) bearing chiral materials: Novel mechanism of light guidance. , 2010, , .		0
117	Single mode propagation through a terahertz kagome microstructured fiber. , 2011, , .		0
118	Direct-drawn metamaterial fibers with magnetic response in the 100GHz range. , 2011, , .		0
119	Error free 9.5 Gb/s transmission over 50 m of multimode microstructured polymer optical fibre. , 2011, , .		0
120	Composite fiber refractive index sensor based on directional couplers near cutoff. , 2011, , .		0
121	Metamaterials Drawn in Fibre. , 2012, , .		0
122	Metamaterials in fibers. , 2012, , .		0
123	Drawn double split ring magnetic metamaterial in terahertz range. , 2012, , .		0
124	Spatial dispersion management in three-dimensional drawn magnetic metamaterials. , 2012, , .		0
125	Drawn metamaterials. , 2012, , .		0
126	Sub-diffraction modes in fibers with uniaxial metamaterial cladding. , 2012, , .		0

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127	THz pulse guidance in hollow core fibers with embedded indium wires. , 2012, , .		0
128	Polymer optical fibres: conventional and microstructured fibres. , 2012, , .		0
129	Fiber Metamaterials: Recent Advances and Outlook. , 2013, , .		0
130	Electromagnetic wave propagation through an air-core waveguide with metamaterial cladding. , 2014, , .		0
131	Metamaterial fibres — Hyperlenses and beyond. , 2014, , .		0
132	Fiber metamaterials for terahertz applications. , 2014, , .		0
133	Perfect image transport by a wire array metamaterial fiber. , 2015, , .		0
134	Removing imaging artefacts in wire media based hyperlenses. , 2016, , .		0
135	Hybrid antiresonant metamaterial waveguides for THz and IR. , 2016, , .		0
136	Far-field subdiffraction imaging using metamaterial fiber. , 2016, , .		0
137	Removing Image Artefacts in Magnifying Hyperlenses. , 2016, , .		0