# Alexander Argyros

List of Publications by Year
in descending order

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| 137 | 4,438 | 117625 | 110387 |
|---|---|---|---|
| papers | citations | 34 h-index | 64 g-index |

| 137 | 137 | 137 | 2472 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Microstructured polymer optical fibre. Optics Express, 2001, 9, 319. | 3.4 | 313 |
| 2 | Photonic lanterns: a study of light propagation in multimode to single-mode converters. Optics Express, 2010, 18, 8430. | 3.4 | 206 |
| 3 | Continuous wave ultraviolet light-induced fiber Bragg gratings in few- and single-mode microstructured polymer optical fibers. Optics Letters, 2005, 30, 3296. | 3.3 | 182 |
| 4 | Photonic bandgap with an index step of one percent. Optics Express, 2005, 13, 309. | 3.4 | 165 |
| 5 | Liquid-filled hollow core microstructured polymer optical fiber. Optics Express, 2006, 14, 4135. | 3.4 | 161 |
| 6 | Hybrid Optical Fibers â€“ An Innovative Platform for Inâ€Fiber Photonic Devices. Advanced Optical Materials, 2016, 4, 13-36. | 7.3 | 153 |
| 7 | Microstructured Polymer Optical Fibers. Journal of Lightwave Technology, 2009, 27, 1571-1579. | 4.6 | 128 |
| 8 | Characterization of a microstructured Zeonex terahertz fiber. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1013. | 2.1 | 124 |
| 9 | Metamaterial fibres for subdiffraction imaging and focusing at terahertz frequencies over optically long distances. Nature Communications, 2013, 4, 2706. | 12.8 | 121 |
| 10 | Thermal response of Bragg gratings in PMMA microstructured optical fibers. Optics Express, 2007, 15, 8844. | 3.4 | 119 |
| 11 | THz propagation in kagome hollow-core microstructured fibers. Optics Express, 2011, 19, 18470. | 3.4 | 111 |
| 12 | Flexible tube lattice fibers for terahertz applications. Optics Express, 2013, 21, 3388. | 3.4 | 111 |
| 13 | Ring structures in microstructured polymer optical fibres. Optics Express, 2001, 9, 813. | 3.4 | 109 |
| 14 | Transmission of terahertz radiation using a microstructured polymer optical fiber. Optics Letters, 2008, 33, 902. | 3.3 | 109 |
| 15 | Hollow-core polymer fibres with a kagome lattice: potential for transmission in the infrared. Optics Express, 2007, 15, 7713. | 3.4 | 107 |
| 16 | Guidance properties of low-contrast photonic bandgap fibres. Optics Express, 2005, 13, 2503. | 3.4 | 105 |
| 17 | Photonic lanterns. Nanophotonics, 2013, 2, 429-440. | 6.0 | 103 |
| 18 | Recent progress in microstructured polymer optical fibre fabrication and characterisation. Optical Fiber Technology, 2003, 9, 199-209. | 2.7 | 99 |

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| 19 | Hollow-core microstructured polymer optical fiber. Optics Letters, 2006, 31, 172. | 3.3 | 88 |
| 20 | Surface enhanced Raman scattering in a hollow core microstructured optical fiber. Optics Express, 2007, 15, 13675. | 3.4 | 85 |
| 21 | A loss-based, magnetic field sensor implemented in a ferrofluid infiltrated microstructured polymer optical fiber. Applied Physics Letters, 2014, 104, . | 3.3 | 69 |
| 22 | Guided modes and loss in Bragg fibres. Optics Express, 2002, 10, 1411. | 3.4 | 64 |
| 23 | Antiresonant reflection and inhibited coupling in hollow-core square lattice optical fibres. Optics Express, 2008, 16, 5642. | 3.4 | 64 |
| 24 | Stable imprinting of long-period gratings in microstructured polymer optical fibre. Optics Express, 2006, 14, 4644. | 3.4 | 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. | 3.4 | 58 |
| 27 | Flexible single-mode hollow-core terahertz fiber with metamaterial cladding. Optica, 2016, 3, 941. | 9.3 | 58 |
| 28 | Stacked-and-drawn metamaterials with magnetic resonances in the terahertz range. Optics Express, 2011, 19, 16480. | 3.4 | 55 |
| 29 | Solution doping of microstructured polymer optical fibres. Optics Express, 2004, 12, 1966. | 3.4 | 49 |
| 30 | Coupling in a twin-core microstructured polymer optical fiber. Applied Physics Letters, 2004, 84, 1689-1691. | 3.3 | 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. | 2.1 | 40 |
| 32 | Refractive index sensor based on a polymer fiber directional coupler for low index sensing. Optics Express, 2014, 22, 17497. | 3.4 | 38 |
| 33 | Microstructured Polymer Optical Fibres: New Opportunities and Challenges. Molecular Crystals and Liquid Crystals, 2006, 446, 219-231. | 0.9 | 37 |
| 34 | Polycarbonate hollow-core microstructured optical fiber. Optics Letters, 2008, 33, 2446. | 3.3 | 36 |
| 35 | Quantum dot and silica nanoparticle doped polymer optical fibers. Optics Express, 2007, 15, 9989. | 3.4 | 34 |
| 36 | Hybrid hollow core fibers with embedded wires as THz waveguides. Optics Express, 2013, 21, 2903. | 3.4 | 34 |

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| 37 | Fiber-drawn double split ring resonators in the terahertz range. Optical Materials Express, 2012, 2, 1254. | 3.0 | 33 |
| 38 | Bandwidth and loss measurements of graded-index microstructured polymer optical fibre. Electronics Letters, 2004, 40, 592. | 1.0 | 32 |
| 39 | Microstructured polymer fiber laser. Optics Letters, 2004, 29, 1882. | 3.3 | 32 |
| 40 | Hollow-core uniaxial metamaterial clad fibers with dispersive metamaterials. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 851. | 2.1 | 31 |
| 41 | Reducing the Size of Hollow Terahertz Waveguides. Journal of Lightwave Technology, 2011, 29, 97-103. | 4.6 | 29 |
| 42 | Water Diffusion Into UV Inscripted Long Period Grating in Microstructured Polymer Fiber. IEEE Sensors Journal, 2010, 10, 1169-1173. | 4.7 | 26 |
| 43 | Pure chiral optical fibres. Optics Express, 2011, 19, 968. | 3.4 | 26 |
| 44 | Twin-hollow-core optical fibres. Optics Communications, 2009, 282, 1785-1788. | 2.1 | 24 |
| 45 | Investigation of Flexible Low-Loss Hollow-Core Fibres With Tube-Lattice Cladding for Terahertz Radiation. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 214-220. | 2.9 | 24 |
| 46 | Microstructured optical fiber for single-polarization air guidance. Optics Letters, 2004, 29, 20. | 3.3 | 23 |
| 47 | Multiplexed FBG sensor recorded in multimode microstructured polymer optical fibre. Proceedings of SPIE, 2010, , . | 0.8 | 23 |
| 48 | Indefinite Media Based on Wire Array Metamaterials for the THz and Midâ€IR. Advanced Optical Materials, 2013, 1, 971-977. | 7.3 | 23 |
| 49 | Temperature effects on emission of quantum dots embedded in polymethylmethacrylate. Applied Optics, 2010, 49, 2749. | 2.1 | 22 |
| 50 | Small-core single-mode microstructured polymer optical fiber with large external diameter. Optics Letters, 2004, 29, 818. | 3.3 | 21 |
| 51 | Circular and elliptical birefringence in spun microstructured optical fibres. Optics Express, 2009, 17, 15983. | 3.4 | 21 |
| 52 | Multicore composite single-mode polymer fiber. Optics Express, 2012, 20, 141. | 3.4 | 21 |
| 53 | Elliptical metallic hollow fiber inner-coated with non-uniform dielectric layer. Optics Express, 2015, 23, 22587. | 3.4 | 21 |
| 54 | Ultrabroadband perfect imaging in terahertz wire media using single-cycle pulses. Optica, 2016, 3, 458. | 9.3 | 21 |

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| 55 | Analysis of ring-structured Bragg fibres for single TE mode guidance. Optics Express, 2004, 12, 2688. | 3.4 | 20 |
| 56 | Bend loss in highly multimode fibres. Optics Express, 2008, 16, 18590. | 3.4 | 20 |
| 57 | Solid-core fiber with ultra-wide bandwidth transmission window due to inhibited coupling. Optics Express, 2010, 18, 25556. | 3.4 | 20 |
| 58 | Identifying hollow waveguide guidance in air-cored microstructured optical fibres. Optics Express, 2003, 11, 996. | 3.4 | 19 |
| 59 | Imaging performance of finite uniaxial metamaterials with large anisotropy. Optics Letters, 2014, 39, 3286. | 3.3 | 19 |
| 60 | Fabricating Metamaterials Using the Fiber Drawing Method. Journal of Visualized Experiments, 2012, , . | 0.3 | 18 |
| 61 | A prism based magnifying hyperlens with broad-band imaging. Applied Physics Letters, 2017, 110, . | 3.3 | 18 |
| 62 | Fiber-Drawn Metamaterial for THz Waveguiding and Imaging. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1162-1178. | 2.2 | 18 |
| 63 | Tunable metamaterials fabricated by fiber drawing. Journal of the Optical Society of America B: Optical Physics, 2017, 34, D81. | 2.1 | 18 |
| 64 | Menthol-based chiral copolymers for polymer optical fibres (POF). Polymer Chemistry, 2011, 2, 2045. | 3.9 | 17 |
| 65 | Low Loss and Temperature Stable Microstructured Polymer Optical Fibers. Journal of Lightwave Technology, 2012, 30, 192-197. | 4.6 | 16 |
| 66 | Investigation of Plateauâ€“Rayleigh Instability in Drawn Metalâ€“Polymer Composite Fibers for Metamaterials Fabrication. Journal of Lightwave Technology, 2016, 34, 2198-2205. | 4.6 | 15 |
| 67 | Spatial dispersion in three-dimensional drawn magnetic metamaterials. Optics Express, 2012, 20, 11924. | 3.4 | 14 |
| 68 | Terahertz Spectroscopy and Imaging With Flexible Tube-Lattice Fiber Probe. Journal of Lightwave Technology, 2014, 32, 4621-4627. | 4.6 | 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. | 4.6 | 12 |
| 74 | Spectroscopy of 3D-trapped particles inside a hollow-core microstructured optical fiber. Optics Express, 2012, 20, 11232. | 3.4 | 11 |
| 75 | Luminescent solar concentrators utilizing stimulated emission. Optics Express, 2016, 24, A497. | 3.4 | 11 |
| 76 | Metal selection for wire array metamaterials for infrared frequencies. Optics Express, 2015, 23, 29867. | 3.4 | 10 |
| 77 | Holey fiber mode-selective couplers. Optics Express, 2015, 23, 18888. | 3.4 | 9 |
| 78 | Towards subdiffraction imaging with wire array metamaterial hyperlenses at MIR frequencies. Optics Express, 2019, 27, 21420. | 3.4 | 9 |
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| 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. | 3.4 | 8 |
| 83 | 7.3-Gb/s Transmission Over Microstructured Polymer Optical Fiber for In-Home Networks. IEEE Photonics Technology Letters, 2012, 24, 1257-1259. | 2.5 | 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. | 4.6 | 7 |
| 86 | Removing image artefacts in wire array metamaterials. Optics Express, 2016, 24, 17989. | 3.4 | 6 |
| 87 | Heat Transfer Modeling of the Capillary Fiber Drawing Process. Journal of Heat Transfer, 2017, 139, . | 2.1 | 6 |
| 88 | Analysis of Capillary Instability in Metamaterials Fabrication Using Fiber Drawing Technology. Journal of Lightwave Technology, 2017, 35, 2167-2174. | 4.6 | 6 |
| 89 | ‹title›Microstructured polymer optical fibers: progress and promise‹/title›. , 2002, , . | | 5 |
| 90 | Reply to comment on â€œMicrostructured polymer fiber laserâ€• Optics Letters, 2005, 30, 1829. | 3.3 | 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, . | 3.2 | 5 |
| 93 | Increasing the Numerical Aperture of Large-Core Microstructured Polymer Optical Fibers Using a â€˜Yâ€™-Bridge Cladding. Journal of Lightwave Technology, 2009, 27, 1610-1616. | 4.6 | 4 |
| 94 | Small-core single-mode microstructured polymer optical fiber with large external diameter:â€ƒerratum. Optics Letters, 2004, 29, 1560. | 3.3 | 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. | 2.1 | 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. | 3.4 | 3 |
| 97 | Low loss microstructured Polymer Optical Fibre (mPOF). , 2011, , . | | 3 |
| 98 | Hybrid Optical Fibers: Hybrid Optical Fibers â€“ An Innovative Platform for Inâ€Fiber Photonic Devices (Advanced Optical Materials 1/2016). Advanced Optical Materials, 2016, 4, 12-12. | 7.3 | 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. | 2.7 | 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. | 2.1 | 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 |
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| 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 gudiance. , 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 |
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| 123 | Drawn double split ring magnetic metamaterial in terahertz range. , 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 |