

Stavros Pissadakis

List of Publications by Year in descending order

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159
papers

1,992
citations

257450

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160
docs citations

160
times ranked

1815
citing authors

#	ARTICLE	IF	CITATIONS
1	Whispering Gallery Mode Resonances in Thermally Poled Borosilicate Glass Hetero-Fibers. Journal of Lightwave Technology, 2022, 40, 4786-4794.	4.6	1
2	Optical fiber sensors for detecting spraying drift in drone agricultural applications. , 2022, , .		0
3	Light resonators imprinted onto optical fibers using multi-photon lithography. , 2022, , .		0
4	Benchmarking Spectroscopic Techniques Combined with Machine Learning to Study Oak Barrels for Wine Ageing. Biosensors, 2022, 12, 227.	4.7	1
5	Monitoring of Torque Induced Strain in Composite Shafts with Embedded and Surface-Mounted Optical Fiber Bragg Gratings. Sensors, 2021, 21, 2403.	3.8	7
6	Whispering gallery mode resonances in thermally poled borosilicate glass optical microcavities. , 2021, , .		0
7	A High Sensitivity Ethanol Sensor Based on Photo-imprinted, Micro-ring Resonators on Optical-Fiber Tapers. , 2021, , .		0
8	Optical Fibre Humidity Sensor for Accessing the Wetting Condition of Oak Barrels. , 2021, , .		0
9	Optical birefringence in strain tuneable silk fibroin whispering gallery mode cavities. , 2021, , .		0
10	Micro-Ring Resonator Devices Prototyped on Optical Fiber Tapers by Multi-Photon Lithography. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-7.	2.9	17
11	Optically formed rubbery waveguide interconnects. Optics Letters, 2021, 46, 5437.	3.3	6
12	Optical Fiber Ring Resonator Ethanol Vapor Sensor. , 2021, , .		0
13	Electrically Poled, MNA-Microstructured Optical Fibers for Second Harmonic Generation. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-8.	2.9	2
14	Implementation of Non-Linear Optical Materials Inside Microstructured Optical Fibers. , 2020, , .		0
15	Silk Fibroin Enabled Optical Fiber Methanol Vapor Sensor. IEEE Photonics Technology Letters, 2020, 32, 514-517.	2.5	12
16	Organic vapor optical fiber sensors based on silk fibroin transduction. , 2020, , .		1
17	Phase-shifted Bragg grating inscription in photonic crystal fibers by UV phase mask beam stop technique. , 2020, , .		0
18	Lab-in-a-fiber sensors: A review. Microelectronic Engineering, 2019, 217, 111105.	2.4	33

#	ARTICLE	IF	CITATIONS
19	Elastic Interconnection of Optical Fibers using Self-Written Waveguides. , 2019, , .		0
20	Azimuthal Alignment Method for Optimizing Bragg Grating Inscription in Photonic Crystal Fibers. IEEE Photonics Technology Letters, 2019, 31, 857-860.	2.5	1
21	Second Harmonic Generation in Thermally Poled Nitroaniline All-Solid Microstructured Optical Fibers. , 2019, , .		0
22	Special Section Guest Editorial: Optical Fiber Sensor Technology. Optical Engineering, 2019, 58, 1.	1.0	0
23	An "in-fiber" Whispering-Gallery-Mode bi-sphere resonator, sensitive to nanometric displacements. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	20
24	Multiple Light Coupling and Routing via a Microspherical Resonator Integrated in a T-Shaped Optical Fiber Configuration System. Micromachines, 2018, 9, 521.	2.9	2
25	A double guidance mechanism, nitroaniline based microstructured optical fiber. Scientific Reports, 2018, 8, 15586.	3.3	5
26	Bioresorbable optical fiber Bragg gratings. Optics Letters, 2018, 43, 671.	3.3	24
27	Differential loss magnetic field sensor using a ferrofluid encapsulated D-shaped optical fiber. Optics Letters, 2018, 43, 142.	3.3	35
28	Toward Bioresorbable Photosensitive Fibers for Theranostics. , 2018, , .		1
29	Optical Fiber Bragg Grating Sensors for Torque Induced Strain Monitoring in Filament Wound Composite Shafts. , 2018, , .		0
30	A nitroaniline-based, all-solid photonic bandgap fiber. , 2018, , .		0
31	All solid nitroaniline-silica photonic bandgap fiber. , 2018, , .		0
32	Characterization of fiber optic distributed temperature sensors for tissue laser ablation. , 2017, , .		4
33	A Fiber Optic Probe for Tumor Laser Ablation With Integrated Temperature Measurement Capability. Journal of Lightwave Technology, 2017, 35, 3447-3454.	4.6	31
34	A Shear Sensing Pad, Based on Ferrofluidic Actuation in a Microstructured Optical Fiber. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 210-216.	2.9	8
35	Optical Fiber Sensors for Label-Free DNA Detection. Journal of Lightwave Technology, 2017, 35, 3461-3472.	4.6	43
36	Probing Stress-Induced Optical Birefringence of Glassy Polymers by Whispering Gallery Modes Light Localization. ACS Omega, 2017, 2, 9127-9135.	3.5	10

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37	A Fiber Optic Fabry-Perot Cavity Sensor for the Probing of Oily Samples. <i>Fibers</i> , 2017, 5, 1.	4.0	38
38	Strain tuneable whispering gallery mode resonators in the estimation of the elasto-optic parameters of soft materials. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
39	Silver iodide phosphate glass microsphere resonator integrated on an optical fiber taper. <i>Optics Letters</i> , 2016, 41, 2185.	3.3	16
40	Light coupling and routing using a microsphere attached on the endface of a microstructured optical fiber. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
41	Intercore Coupling Effects in Multicore Optical Fiber Tapers Using Magnetic Fluid Out-Claddings. <i>Journal of Lightwave Technology</i> , 2016, 34, 5561-5565.	4.6	19
42	Fiber Endface Fabry-Perot Microsensor With Distinct Response to Vapors of Different Chlorinated Organic Solvents. <i>IEEE Sensors Journal</i> , 2016, 16, 7094-7100.	4.7	18
43	Bragg grating UV inscription in a bioresorbable phosphate glass optical fiber. , 2016, , .		2
44	Power coupling in multicore optical fiber tapers utilizing out-cladding ferrofluids. , 2016, , .		1
45	Material structure studies in strain tuneable whispering gallery mode polymeric resonators. , 2016, , .		0
46	Bragg Gratings in a Bioresorbable Phosphate Glass Optical Fiber. , 2016, , .		0
47	Light driven optofluidic switch developed in a ZnO-overlaid microstructured optical fiber. <i>Optics Express</i> , 2015, 23, 31496.	3.4	11
48	All-glass photonic bandgap fibers and fiber-tapers infiltrated with silver fast-ion-conducting glasses. , 2015, , .		0
49	A Fiber-Endface, Fabry-Perot Vapor Microsensor Fabricated by Multiphoton Polymerization. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, 21, 344-353.	2.9	41
50	ZnO-PDMS Nanohybrids: A Novel Optical Sensing Platform for Ethanol Vapor Detection at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2015, 119, 623-631.	3.1	22
51	Detection of unamplified genomic DNA by a PNA-based microstructured optical fiber (MOF) Bragg-grating optofluidic system. <i>Biosensors and Bioelectronics</i> , 2015, 63, 248-254.	10.1	86
52	A microspherical resonator embedded inside a microstructured optical fiber taper. , 2015, , .		0
53	Photorefractive tuning of whispering gallery modes of a spherical resonator integrated inside a microstructured optical fibre. <i>European Physical Journal: Special Topics</i> , 2014, 223, 2035-2040.	2.6	8
54	Optical Spectra Tuning of All-Glass Photonic Bandgap Fiber Infiltrated with Silver Fast-Ion-Conducting Glasses. <i>Materials</i> , 2014, 7, 5735-5745.	2.9	14

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55	All-optical Optofluidic Switching in a ZnO-overlaid Microstructured Optical Fiber. , 2014, , .		0
56	A loss-based, magnetic field sensor implemented in a ferrofluid infiltrated microstructured polymer optical fiber. Applied Physics Letters, 2014, 104, .	3.3	69
57	Characterisation of a double tilted fiber Bragg grating using an electrowetting platform. , 2014, , .		0
58	Materials growth and processing in the capillaries of photonic crystal fibres: towards the lab-in-a-fibre protocol. , 2014, , .		1
59	Whispering-gallery modes excitation in microspheres integrated inside microstructured optical fibers. Proceedings of SPIE, 2014, , .	0.8	0
60	Growth of ZnO nanolayers inside the capillaries of photonic crystal fibres. Thin Solid Films, 2014, 555, 76-80.	1.8	15
61	In-fibre whispering gallery mode resonators: From isolated microspheres to coupled systems. , 2014, , .		0
62	Silver plasmon resonance effects in AgPO ₃ /silica photonic bandgap fiber. Optics Letters, 2014, 39, 3374.	3.3	23
63	Optical characterisation of long-period grating using liquid droplets on an electrowetting dielectric platform. Micro and Nano Letters, 2014, 9, 399-402.	1.3	1
64	An In-Fiber Magnetometer Implemented in a Polymeric-MOF Utilizing Ferrofluid. Lecture Notes in Electrical Engineering, 2014, , 227-231.	0.4	0
65	Optical Fiber Sensor for DNA Detection Based on Doubled-Tilted Bragg Grating. Lecture Notes in Electrical Engineering, 2014, , 349-352.	0.4	0
66	Enhancement of Plasmonic Properties of an All-Glass AgPO ₃ /Silica Photonic Bandgap Fibre Using Thermal Poling. , 2014, , .		0
67	Label-free DNA biosensor based on a peptide nucleic acid-functionalized microstructured optical fiber-Bragg grating. Journal of Biomedical Optics, 2013, 18, 057004.	2.6	64
68	DNA biosensors implemented on PNA-functionalized microstructured optical fibers Bragg gratings. Proceedings of SPIE, 2013, , .	0.8	1
69	Magnetic Field Sensor Based on Backscattered Intensity Using Ferrofluid. IEEE Photonics Technology Letters, 2013, 25, 1481-1484.	2.5	12
70	Microstructured optical fiber Bragg grating sensor for DNA detection. Proceedings of SPIE, 2013, , .	0.8	1
71	Relief Bragg reflectors inscribed on the capillary walls of solid-core photonic crystal fibers. Laser and Photonics Reviews, 2013, 7, 439-443.	8.7	41
72	Holographic polymer-dispersed liquid crystal Bragg grating integrated inside a solid core photonic crystal fiber. Optics Letters, 2013, 38, 3253.	3.3	25

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73	Electric field induced polarization effects in AgPO ₃ /silica photonic bandgap fiber. , 2013, , .		1
74	Microsphere resonator integrated inside a microstructured optical fiber. , 2013, , .		0
75	PNA-modified photonic crystal fibers for DNA detection. , 2013, , .		0
76	Fabry-Perot vapor microsensors onto fibre endface fabricated by multiphoton polymerization technique. , 2013, , .		0
77	Whispering gallery mode microsphere resonator integrated inside a microstructured optical fiber. Optics Letters, 2013, 38, 1301.	3.3	82
78	Laser etched gratings inside microstructured optical fibres. MATEC Web of Conferences, 2013, 8, 05001.	0.2	0
79	Fabry-Perot Vapor Microsensors Fabricated onto Fibre Endface by Multiphoton Polymerization Technique. MATEC Web of Conferences, 2013, 8, 05006.	0.2	0
80	Relief Bragg and Long period gratings in solid and hollow core photonic crystal fibers. , 2013, , .		0
81	Label-free DNA biosensor based on doubled tilted fiber Bragg grating. , 2012, , .		2
82	Laser processing of optical fibers: new photosensitivity findings, refractive index engineering and surface structuring. , 2012, , 374-452.		2
83	Optofluidic magnetometer developed in a microstructured optical fiber. Optics Letters, 2012, 37, 4467.	3.3	41
84	An ethanol vapor detection probe based on a ZnO nanorod coated optical fiber long period grating. Optics Express, 2012, 20, 8472.	3.4	78
85	A ferrofluid infiltrated polymeric microstructured optical fiber sensor for magnetic field measurements. , 2012, , .		1
86	DNA biosensor based on a double tilted fiber Bragg grating. , 2012, , .		0
87	Photosensitive, all-glass AgPO ₃ /silicaphotonic bandgap fiber. Optics Letters, 2012, 37, 2499.	3.3	33
88	Photonic bandgap guiding into a composite AgPO ₃ -glass/silica microstructured optical fibre. , 2012, , .		1
89	A grating-less in-fibre magnetometer realised in a polymer-MOF infiltrated using ferrofluid. , 2012, , .		1
90	Optical Fiber Ring Cavity Sensor for Label-Free DNA Detection. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1176-1183.	2.9	40

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91	3D microoptical elements formed in a photostructurable germanium silicate by direct laser writing. Optics and Lasers in Engineering, 2012, 50, 1785-1788.	3.8	46
92	Integrated Holographic Polymer-Dispersed Liquid Crystal Bragg Reflector into Photonic Crystal Fibre. , 2012, , .		0
93	A shear-displacement sensor based on a ferrofluidic defected microstructured optical fibre Bragg grating. , 2012, , .		1
94	Relief Bragg grating reflectors inscribed into solid core photonic crystal fibres. , 2012, , .		0
95	Microstructured optical fibre Bragg grating modulator employing an infiltrated ferrofluid. , 2011, , .		1
96	Direct laser writing of microoptical structures using a Ge-containing hybrid material. Metamaterials, 2011, 5, 135-140.	2.2	20
97	Optical Fiber Cladding Ring Magnetic Field Sensor. IEEE Photonics Technology Letters, 2011, 23, 929-931.	2.5	42
98	Phase-shifted Bragg microstructured optical fiber gratings utilizing infiltrated ferrofluids. Optics Letters, 2011, 36, 2548.	3.3	58
99	Non-monotonous refractive index changes recorded in a phosphate glass optical fibre using 248nm, 500fs laser radiation. Optical Materials Express, 2011, 1, 121.	3.0	10
100	Sensing and actuating photonic devices in magnetofluidic microstructured optical fiber Bragg gratings. Proceedings of SPIE, 2011, , .	0.8	1
101	Optically tunable long period fiber gratings utilizing a photochromic out-cladding overlayer. Optical Fiber Technology, 2011, 17, 168-170.	2.7	3
102	A vectorial magnetometer utilising a microstructured optical fibre Bragg grating infiltrated by a ferrofluid. , 2011, , .		1
103	Enhanced durability FBG-based sensor pads for biomedical applications as human-machine interface surfaces. , 2011, , .		6
104	Modification of a long period grating-based fiber optic for DNA biosensing. Proceedings of SPIE, 2011, , .	0.8	11
105	Highly Photosensitive PCFs with Extremely Germanium Doped Core. , 2010, , .		0
106	Optical fibre long period gratings with a photochromic overlayer. , 2010, , .		0
107	Spectral tuning of Microstructured Optical Fibre Bragg gratings utilizing ferrofluids. , 2010, , .		0
108	A spectrally tunable microstructured optical fibre Bragg grating utilizing an infiltrated ferrofluid. Optics Express, 2010, 18, 24654.	3.4	71

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109	Sub-micron period relief grating structures inscribed on erbium doped Ta ₂ O ₅ waveguides using 213 nm, 150 ps laser radiation. , 2009, , .		0
110	Photosensitivity and grating recording in all-silica standard and microstructured optical fibres using 248nm, fs and ps laser radiation. , 2009, , .		0
111	Magnetic tuning of optical fibre long period gratings. , 2009, , .		2
112	Atypical behaviour of the surface hardness and the elastic modulus of a phosphate glass matrix under 193 nm laser irradiation. Applied Physics A: Materials Science and Processing, 2009, 95, 453-456.	2.3	5
113	Type IIA Grating Inscription in a Highly Nonlinear Microstructured Optical Fiber. IEEE Photonics Technology Letters, 2009, 21, 227-229.	2.5	15
114	Thin film overlaid long period fibre grating sensors: Examples and prospects for advanced health monitoring applications. , 2009, , .		2
115	Magnetic tuning of optical fibre long period gratings utilizing ferrofluids. , 2009, , .		10
116	Fabrication of one- and two-dimensional photonic crystals in phosphate glass substrates using ultraviolet laser holography and selective chemical etching. International Journal of Nanotechnology, 2009, 6, 99.	0.2	0
117	Inscription of type IIA Bragg reflectors in a highly non-linear microstructured optical fiber using deep ultraviolet laser radiation. Proceedings of SPIE, 2009, , .	0.8	0
118	Bragg grating recording in low-defect optical fibers using ultraviolet femtosecond radiation and a double-phase mask interferometer. Optics Letters, 2008, 33, 1449.	3.3	24
119	Photosensitivity of the Er/Yb-Codoped Schott IOG1 Phosphate Glass Using 248nm, Femtosecond, and Picosecond Laser Radiation. Laser Chemistry, 2008, 2008, 1-7.	0.5	2
120	Bragg gratings in standard and microstructured all-silica fibres inscribed using ultra-fast ultraviolet radiation. , 2008, , .		0
121	Inscription of Bragg reflectors in all-silica microstructured optical fibres using 248nm, picosecond, and femtosecond laser radiation. Proceedings of SPIE, 2008, , .	0.8	6
122	Photosensitivity of Er/Yb-codoped Schott IOG1 phosphate glass using 248nm, 500fs laser radiation. , 2007, , .		2
123	Comparative results on the recording of Type IIA gratings in B-Ge optical fibres using femtosecond and picosecond 248nm laser radiation. , 2007, , .		0
124	UV-assisted selective chemical etching of relief gratings in Er/Yb-codoped IOG1 phosphate glass. Journal of Physics: Conference Series, 2007, 59, 310-313.	0.4	0
125	Improved Efficiency Bragg Grating Inscription in a Commercial Solid Core Microstructured Optical Fiber. , 2007, , .		4
126	Backside etching of fused silica with ultra-short laser pulses at the interface to absorbing liquid. Journal of Physics: Conference Series, 2007, 59, 173-176.	0.4	8

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127	Sub-micron periodic structuring of sapphire by laser induced backside wet etching technique. Optics Express, 2007, 15, 1428.	3.4	27
128	Organic semiconductor distributed feedback laser fabricated by direct laser interference ablation. Optics Express, 2007, 15, 3968.	3.4	18
129	Planar periodic structures fabricated in Er/Yb-codoped phosphate glass using multi-beam ultraviolet laser holography. Optics Express, 2007, 15, 4296.	3.4	8
130	A Comparative Study on the Type IIA Photosensitivity of a B/Ge Optical Fiber Using Ultraviolet, Femtosecond Radiation. , 2007, , .		0
131	Accelerated recording of negative index gratings in Ge-doped optical fibers using 248-nm 500-fs laser radiation. IEEE Photonics Technology Letters, 2006, 18, 1182-1184.	2.5	17
132	Optical fiber long-period grating humidity sensor with poly(ethylene oxide)/cobalt chloride coating. Applied Optics, 2006, 45, 4567.	2.1	118
133	Laser backside etching of fused silica with ultra-short pulses. Applied Physics A: Materials Science and Processing, 2006, 85, 75-78.	2.3	22
134	Backside etching of fused silica with Nd:YAG laser. Applied Surface Science, 2006, 253, 2796-2800.	6.1	14
135	Two-dimensional Bragg reflectors fabricated in IOG1 phosphate glass using multibeam UV laser interference. , 2006, , .		0
136	Recording of Type IIA Gratings in B-Ge codoped Optical Fibres Using 248nm Femtosecond and Picosecond Laser Radiation. , 2006, , .		3
137	Ultra-short laser processing of transparent material at the interface to liquid. Journal Physics D: Applied Physics, 2006, 39, 1398-1404.	2.8	20
138	Periodic nanostructuring of Er ³⁺ /Yb-codoped IOG1 phosphate glass by using ultraviolet laser-assisted selective chemical etching. Journal of Applied Physics, 2006, 100, 114308.	2.5	8
139	An elliptical Talbot interferometer for fiber Bragg grating fabrication. Review of Scientific Instruments, 2005, 76, 066101.	1.3	12
140	Photosensitivity of germanosilicate fibers using 213nm, picosecond Nd:YAG radiation. Optics Express, 2005, 13, 2605.	3.4	11
141	Excimer laser inscribed submicron period relief gratings in InOx films and overlaid waveguides. Journal of Applied Physics, 2004, 95, 1634-1641.	2.5	15
142	Sub-micron period grating structures in Ta2O5 thin oxide films patterned using UV laser post-exposure chemically assisted selective etching. Thin Solid Films, 2004, 453-454, 458-461.	1.8	5
143	High-reflectivity Bragg gratings fabricated by 248-nm excimer laser holographic ablation in thin Ta2O5 films overlaid on glass waveguides. Applied Physics A: Materials Science and Processing, 2004, 79, 1093-1096.	2.3	14
144	Photosensitivity of ion-exchanged Er-doped phosphate glass using 248nm excimer laser radiation. Optics Express, 2004, 12, 3131.	3.4	48

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145	Superstrate index control of waveguide grating reflectivity. Optics Letters, 2002, 27, 327.	3.3	7
146	Gratings in indium oxide film overlayers on ion-exchanged waveguides by excimer laser micromachining. Applied Physics Letters, 2001, 78, 694-696.	3.3	18
147	Relief gratings on Er/Yb-doped borosilicate glasses and waveguides by excimer laser ablation. Applied Surface Science, 2000, 153, 200-210.	6.1	16
148	Permanent holographic recording in indium oxide thin films using 193 nm excimer laser radiation. Applied Physics A: Materials Science and Processing, 1999, 69, 333-336.	2.3	19
149	Large photoinduced refractive index changes in pulsed-laser-deposited lead germanate glass waveguides with controllable refractive index sign change. Applied Physics A: Materials Science and Processing, 1999, 69, S671-S674.	2.3	5
150	Ablated gratings on borosilicate glass by 193-nm excimer laser radiation. Applied Physics A: Materials Science and Processing, 1999, 69, S739-S741.	2.3	23
151	Excimer laser use for microetching computer-generated holographic structures. Applied Optics, 1996, 35, 6304.	2.1	38
152	Computer-generated holographic diffractive structures fabricated by direct excimer laser microetching. , 1995, 2403, 448.		0
153	Superstrate index control of waveguide grating reflectivity. , 0, , .		0
154	UV inscription of sub-micron periodic structures in "hard" optical materials and waveguides. , 0, , .		0
155	Grating inscription in optical fibres using 213 nm picosecond radiation: a new route in silicate glass photosensitivity. , 0, , .		0
156	Investigations on the Bragg grating recording in all-silica, standard and microstructured optical fibers using 248-nm, 5-ps laser radiation. Journal of the European Optical Society-Rapid Publications, 0, 4, .	1.9	28
157	Optical fibre long period grating spectral actuators utilizing ferrofluids as outclading overlayers. Journal of the European Optical Society-Rapid Publications, 0, 6, .	1.9	39
158	Fiber Optic-Based Pressure Sensing Surface for Skin Health Management in Prosthetic and Rehabilitation Interventions. , 0, , .		10
159	Ferrofluid-infiltrated optical fibers for shear-sensing smart pads. SPIE Newsroom, 0, , .	0.1	3