

Stavros Pissadakis

List of Publications by Year in descending order

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159
papers

1,992
citations

257450

24
h-index

289244

40
g-index

160
all docs

160
docs citations

160
times ranked

1815
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical fiber long-period grating humidity sensor with poly(ethylene oxide)/cobalt chloride coating. Applied Optics, 2006, 45, 4567.	2.1	118
2	Detection of unamplified genomic DNA by a PNA-based microstructured optical fiber (MOF) Bragg-grating optofluidic system. Biosensors and Bioelectronics, 2015, 63, 248-254.	10.1	86
3	Whispering gallery mode microsphere resonator integrated inside a microstructured optical fiber. Optics Letters, 2013, 38, 1301.	3.3	82
4	An ethanol vapor detection probe based on a ZnO nanorod coated optical fiber long period grating. Optics Express, 2012, 20, 8472.	3.4	78
5	A spectrally tunable microstructured optical fibre Bragg grating utilizing an infiltrated ferrofluid. Optics Express, 2010, 18, 24654.	3.4	71
6	A loss-based, magnetic field sensor implemented in a ferrofluid infiltrated microstructured polymer optical fiber. Applied Physics Letters, 2014, 104, .	3.3	69
7	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
8	Phase-shifted Bragg microstructured optical fiber gratings utilizing infiltrated ferrofluids. Optics Letters, 2011, 36, 2548.	3.3	58
9	Photosensitivity of ion-exchanged Er-doped phosphate glass using 248nm excimer laser radiation. Optics Express, 2004, 12, 3131.	3.4	48
10	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
11	Optical Fiber Sensors for Label-Free DNA Detection. Journal of Lightwave Technology, 2017, 35, 3461-3472.	4.6	43
12	Optical Fiber Cladding Ring Magnetic Field Sensor. IEEE Photonics Technology Letters, 2011, 23, 929-931.	2.5	42
13	Optofluidic magnetometer developed in a microstructured optical fiber. Optics Letters, 2012, 37, 4467.	3.3	41
14	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
15	A Fiber-Endface, Fabry-Perot Vapor Microsensor Fabricated by Multiphoton Polymerization. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 344-353.	2.9	41
16	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
17	Optical fibre long period grating spectral actuators utilizing ferrofluids as outcladding overlayers. Journal of the European Optical Society-Rapid Publications, 0, 6, .	1.9	39
18	Excimer laser use for microetching computer-generated holographic structures. Applied Optics, 1996, 35, 6304.	2.1	38

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19	A Fiber Optic Fabry-Perot Cavity Sensor for the Probing of Oily Samples. <i>Fibers</i> , 2017, 5, 1.	4.0	38
20	Differential loss magnetic field sensor using a ferrofluid encapsulated D-shaped optical fiber. <i>Optics Letters</i> , 2018, 43, 142.	3.3	35
21	Photosensitive, all-glass AgPO ₃ /silicaphotonic bandgap fiber. <i>Optics Letters</i> , 2012, 37, 2499.	3.3	33
22	Lab-in-a-fiber sensors: A review. <i>Microelectronic Engineering</i> , 2019, 217, 111105.	2.4	33
23	A Fiber Optic Probe for Tumor Laser Ablation With Integrated Temperature Measurement Capability. <i>Journal of Lightwave Technology</i> , 2017, 35, 3447-3454.	4.6	31
24	Investigations on the Bragg grating recording in all-silica, standard and microstructured optical fibers using 248-nm, 5-ps laser radiation. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 4, .	1.9	28
25	Sub-micron periodic structuring of sapphire by laser induced backside wet etching technique. <i>Optics Express</i> , 2007, 15, 1428.	3.4	27
26	Holographic polymer-dispersed liquid crystal Bragg grating integrated inside a solid core photonic crystal fiber. <i>Optics Letters</i> , 2013, 38, 3253.	3.3	25
27	Bragg grating recording in low-defect optical fibers using ultraviolet femtosecond radiation and a double-phase mask interferometer. <i>Optics Letters</i> , 2008, 33, 1449.	3.3	24
28	Bioresorbable optical fiber Bragg gratings. <i>Optics Letters</i> , 2018, 43, 671.	3.3	24
29	Ablated gratings on borosilicate glass by 193-nm excimer laser radiation. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, S739-S741.	2.3	23
30	Silver plasmon resonance effects in AgPO ₃ /silica photonic bandgap fiber. <i>Optics Letters</i> , 2014, 39, 3374.	3.3	23
31	Laser backside etching of fused silica with ultra-short pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 85, 75-78.	2.3	22
32	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
33	Ultra-short laser processing of transparent material at the interface to liquid. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 1398-1404.	2.8	20
34	Direct laser writing of microoptical structures using a Ge-containing hybrid material. <i>Metamaterials</i> , 2011, 5, 135-140.	2.2	20
35	An "in-fiber" Whispering-Gallery-Mode bi-sphere resonator, sensitive to nanometric displacements. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	20
36	Permanent holographic recording in indium oxide thin films using 193 nm excimer laser radiation. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, 333-336.	2.3	19

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37	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
38	Gratings in indium oxide film overlayers on ion-exchanged waveguides by excimer laser micromachining. <i>Applied Physics Letters</i> , 2001, 78, 694-696.	3.3	18
39	Organic semiconductor distributed feedback laser fabricated by direct laser interference ablation. <i>Optics Express</i> , 2007, 15, 3968.	3.4	18
40	Fiber Endface Fabry-Pérot Microsensor With Distinct Response to Vapors of Different Chlorinated Organic Solvents. <i>IEEE Sensors Journal</i> , 2016, 16, 7094-7100.	4.7	18
41	Accelerated recording of negative index gratings in Ge-doped optical fibers using 248-nm 500-fs laser radiation. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 1182-1184.	2.5	17
42	Micro-Ring Resonator Devices Prototyped on Optical Fiber Tapers by Multi-Photon Lithography. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-7.	2.9	17
43	Relief gratings on Er/Yb-doped borosilicate glasses and waveguides by excimer laser ablation. <i>Applied Surface Science</i> , 2000, 153, 200-210.	6.1	16
44	Silver iodide phosphate glass microsphere resonator integrated on an optical fiber taper. <i>Optics Letters</i> , 2016, 41, 2185.	3.3	16
45	Excimer laser inscribed submicron period relief gratings in InOx films and overlaid waveguides. <i>Journal of Applied Physics</i> , 2004, 95, 1634-1641.	2.5	15
46	Type IIA Grating Inscription in a Highly Nonlinear Microstructured Optical Fiber. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 227-229.	2.5	15
47	Growth of ZnO nanolayers inside the capillaries of photonic crystal fibres. <i>Thin Solid Films</i> , 2014, 555, 76-80.	1.8	15
48	High-reflectivity Bragg gratings fabricated by 248-nm excimer laser holographic ablation in thin Ta2O5 films overlaid on glass waveguides. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 79, 1093-1096.	2.3	14
49	Backside etching of fused silica with Nd:YAG laser. <i>Applied Surface Science</i> , 2006, 253, 2796-2800.	6.1	14
50	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
51	An elliptical Talbot interferometer for fiber Bragg grating fabrication. <i>Review of Scientific Instruments</i> , 2005, 76, 066101.	1.3	12
52	Magnetic Field Sensor Based on Backscattered Intensity Using Ferrofluid. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1481-1484.	2.5	12
53	Silk Fibroin Enabled Optical Fiber Methanol Vapor Sensor. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 514-517.	2.5	12
54	Photosensitivity of germanosilicate fibers using 213nm, picosecond Nd:YAG radiation. <i>Optics Express</i> , 2005, 13, 2605.	3.4	11

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55	Modification of a long period grating-based fiber optic for DNA biosensing. Proceedings of SPIE, 2011, , .	0.8	11
56	Light driven optofluidic switch developed in a ZnO-overlaid microstructured optical fiber. Optics Express, 2015, 23, 31496.	3.4	11
57	Magnetic tuning of optical fibre long period gratings utilizing ferrofluids. , 2009, , .		10
58	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
59	Fiber Optic-Based Pressure Sensing Surface for Skin Health Management in Prosthetic and Rehabilitation Interventions. , 0, , .		10
60	Probing Stress-Induced Optical Birefringence of Glassy Polymers by Whispering Gallery Modes Light Localization. ACS Omega, 2017, 2, 9127-9135.	3.5	10
61	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
62	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
63	Planar periodic structures fabricated in Er/Yb-codoped phosphate glass using multi-beam ultraviolet laser holography. Optics Express, 2007, 15, 4296.	3.4	8
64	Photorefractive tuning of whispering gallery modes of a spherical resonator integrated inside a microstructured optical fibre. European Physical Journal: Special Topics, 2014, 223, 2035-2040.	2.6	8
65	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
66	Superstrate index control of waveguide grating reflectivity. Optics Letters, 2002, 27, 327.	3.3	7
67	Monitoring of Torque Induced Strain in Composite Shafts with Embedded and Surface-Mounted Optical Fiber Bragg Gratings. Sensors, 2021, 21, 2403.	3.8	7
68	Inscription of Bragg reflectors in all-silica microstructured optical fibres using 248nm, picosecond, and femtosecond laser radiation. Proceedings of SPIE, 2008, , .	0.8	6
69	Enhanced durability FBC-based sensor pads for biomedical applications as human-machine interface surfaces. , 2011, , .		6
70	Optically formed rubbery waveguide interconnects. Optics Letters, 2021, 46, 5437.	3.3	6
71	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
72	Sub-micron period grating structures in Ta ₂ O ₅ thin oxide films patterned using UV laser post-exposure chemically assisted selective etching. Thin Solid Films, 2004, 453-454, 458-461.	1.8	5

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73	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
74	A double guidance mechanism, nitroaniline based microstructured optical fiber. Scientific Reports, 2018, 8, 15586.	3.3	5
75	Improved Efficiency Bragg Grating Inscription in a Commercial Solid Core Microstructured Optical Fiber. , 2007, , .		4
76	Characterization of fiber optic distributed temperature sensors for tissue laser ablation. , 2017, , .		4
77	Recording of Type IIA Gratings in B-Ge codoped Optical Fibres Using 248nm Femtosecond and Picosecond Laser Radiation. , 2006, , .		3
78	Optically tunable long period fiber gratings utilizing a photochromic out-cladding overlayer. Optical Fiber Technology, 2011, 17, 168-170.	2.7	3
79	Ferrofluid-infiltrated optical fibers for shear-sensing smart pads. SPIE Newsroom, 0, , .	0.1	3
80	Photosensitivity of Er/Yb-codoped Schott IOG1 phosphate glass using 248nm, 500fs laser radiation. , 2007, , .		2
81	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
82	Magnetic tuning of optical fibre long period gratings. , 2009, , .		2
83	Thin film overlaid long period fibre grating sensors: Examples and prospects for advanced health monitoring applications. , 2009, , .		2
84	Label-free DNA biosensor based on doubled tilted fiber Bragg grating. , 2012, , .		2
85	Laser processing of optical fibers: new photosensitivity findings, refractive index engineering and surface structuring. , 2012, , 374-452.		2
86	Bragg grating UV inscription in a bioresorbable phosphate glass optical fiber. , 2016, , .		2
87	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
88	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
89	Microstructured optical fibre Bragg grating modulator employing an infiltrated ferrofluid. , 2011, , .		1
90	Sensing and actuating photonic devices in magnetofluidic microstructured optical fiber Bragg gratings. Proceedings of SPIE, 2011, , .	0.8	1

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91	A vectorial magnetometer utilising a microstructured optical fibre Bragg grating infiltrated by a ferrofluid. , 2011, , .		1
92	A ferrofluid infiltrated polymeric microstructured optical fiber sensor for magnetic field measurements. , 2012, , .		1
93	Photonic bandgap guiding into a composite AgPO ₃ -glass/silica microstructured optical fibre. , 2012, , .		1
94	A grating-less in-fibre magnetometer realised in a polymer-MOF infiltrated using ferrofluid. , 2012, , .		1
95	DNA biosensors implemented on PNA-functionalized microstructured optical fibers Bragg gratings. Proceedings of SPIE, 2013, , .	0.8	1
96	Microstructured optical fiber Bragg grating sensor for DNA detection. Proceedings of SPIE, 2013, , .	0.8	1
97	Electric field induced polarization effects in AgPO ₃ /silica photonic bandgap fiber. , 2013, , .		1
98	Materials growth and processing in the capillaries of photonic crystal fibres: towards the lab-in-a-fibre protocol. , 2014, , .		1
99	Power coupling in multicore optical fiber tapers utilizing out-cladding ferrofluids. , 2016, , .		1
100	Azimuthal Alignment Method for Optimizing Bragg Grating Inscription in Photonic Crystal Fibers. IEEE Photonics Technology Letters, 2019, 31, 857-860.	2.5	1
101	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
102	A shear-displacement sensor based on a ferrofluidic defected microstructured optical fibre Bragg grating. , 2012, , .		1
103	Toward Bioresorbable Photosensitive Fibers for Theranostics. , 2018, , .		1
104	Organic vapor optical fiber sensors based on silk fibroin transduction. , 2020, , .		1
105	Whispering Gallery Mode Resonances in Thermally Poled Borosilicate Glass Hetero-Fibers. Journal of Lightwave Technology, 2022, 40, 4786-4794.	4.6	1
106	Benchmarking Spectroscopic Techniques Combined with Machine Learning to Study Oak Barrels for Wine Ageing. Biosensors, 2022, 12, 227.	4.7	1
107	Computer-generated holographic diffractive structures fabricated by direct excimer laser microetching. , 1995, 2403, 448.		0
108	Superstrate index control of waveguide grating reflectivity. , 0, , .		0

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109	UV inscription of sub-micron periodic structures in "hard" optical materials and waveguides. , 0, , .		0
110	Grating inscription in optical fibres using 213 nm picosecond radiation: a new route in silicate glass photosensitivity. , 0, , .		0
111	Two-dimensional Bragg reflectors fabricated in IOG1 phosphate glass using multibeam UV laser interference. , 2006, , .		0
112	Comparative results on the recording of Type IIA gratings in B-Ge optical fibres using femtosecond and picosecond 248nm laser radiation. , 2007, , .		0
113	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
114	Bragg gratings in standard and microstructured all-silica fibres inscribed using ultra-fast ultraviolet radiation. , 2008, , .		0
115	Sub-micron period relief grating structures inscribed on erbium doped Ta ₂ O ₅ waveguides using 213 nm, 150 ps laser radiation. , 2009, , .		0
116	Photosensitivity and grating recording in all-silica standard and microstructured optical fibres using 248nm, fs and ps laser radiation. , 2009, , .		0
117	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
118	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
119	Highly Photosensitive PCFs with Extremely Germanium Doped Core. , 2010, , .		0
120	Optical fibre long period gratings with a photochromic overlayer. , 2010, , .		0
121	Spectral tuning of Microstructured Optical Fibre Bragg gratings utilizing ferrofluids. , 2010, , .		0
122	DNA biosensor based on a double tilted fiber Bragg grating. , 2012, , .		0
123	Microsphere resonator integrated inside a microstructured optical fiber. , 2013, , .		0
124	PNA-modified photonic crystal fibers for DNA detection. , 2013, , .		0
125	Fabry-Perot vapor microsensor onto fibre endface fabricated by multiphoton polymerization technique. , 2013, , .		0
126	Laser etched gratings inside microstructured optical fibres. MATEC Web of Conferences, 2013, 8, 05001.	0.2	0

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127	Fabry-Perot Vapor Microsensors Fabricated onto Fibre Endface by Multiphoton Polymerization Technique. MATEC Web of Conferences, 2013, 8, 05006.	0.2	0
128	All-optical Optofluidic Switching in a ZnO-overlaid Microstructured Optical Fiber. , 2014, , .		0
129	Characterisation of a double tilted fiber Bragg grating using an electrowetting platform. , 2014, , .		0
130	Whispering-gallery modes excitation in microspheres integrated inside microstructured optical fibers. Proceedings of SPIE, 2014, , .	0.8	0
131	In-fibre whispering gallery mode resonators: From isolated microspheres to coupled systems. , 2014, , .		0
132	All-glass photonic bandgap fibers and fiber-tapers infiltrated with silver fast-ion-conducting glasses. , 2015, , .		0
133	Strain tuneable whispering gallery mode resonators in the estimation of the elasto-optic parameters of soft materials. Proceedings of SPIE, 2016, , .	0.8	0
134	Light coupling and routing using a microsphere attached on the endface of a microstructured optical fiber. Proceedings of SPIE, 2016, , .	0.8	0
135	Elastic Interconnection of Optical Fibers using Self-Written Waveguides. , 2019, , .		0
136	Second Harmonic Generation in Thermally Poled Nitroaniline All-Solid Microstructured Optical Fibers. , 2019, , .		0
137	Implementation of Non-Linear Optical Materials Inside Microstructured Optical Fibers. , 2020, , .		0
138	Whispering gallery mode resonances in thermally poled borosilicate glass optical microcavities. , 2021, , .		0
139	A High Sensitivity Ethanol Sensor Based on Photo-imprinted, Micro-ring Resonators on Optical-Fiber Tapers. , 2021, , .		0
140	Optical Fibre Humidity Sensor for Accessing the Wetting Condition of Oak Barrels. , 2021, , .		0
141	Optical birefringence in strain tuneable silk fibroin whispering gallery mode cavities. , 2021, , .		0
142	A Comparative Study on the Type IIA Photosensitivity of a B/Ge Optical Fiber Using Ultraviolet, Femtosecond Radiation. , 2007, , .		0
143	Integrated Holographic Polymer-Dispersed Liquid Crystal Bragg Reflector into Photonic Crystal Fibre. , 2012, , .		0
144	Relief Bragg grating reflectors inscribed into solid core photonic crystal fibres. , 2012, , .		0

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145	Relief Bragg and Long period gratings in solid and hollow core photonic crystal fibers. , 2013, , .		0
146	An In-Fiber Magnetometer Implemented in a Polymeric-MOF Utilizing Ferrofluid. Lecture Notes in Electrical Engineering, 2014, , 227-231.	0.4	0
147	Optical Fiber Sensor for DNA Detection Based on Doubled-Tilted Bragg Grating. Lecture Notes in Electrical Engineering, 2014, , 349-352.	0.4	0
148	Enhancement of Plasmonic Properties of an All-Glass AgPO ₃ /Silica Photonic Bandgap Fibre Using Thermal Poling. , 2014, , .		0
149	A microspherical resonator embedded inside a microstructured optical fiber taper. , 2015, , .		0
150	Material structure studies in strain tuneable whispering gallery mode polymeric resonators. , 2016, , .		0
151	Bragg Gratings in a Bioresorbable Phosphate Glass Optical Fiber. , 2016, , .		0
152	Optical Fiber Bragg Grating Sensors for Torque Induced Strain Monitoring in Filament Wound Composite Shafts. , 2018, , .		0
153	A nitroaniline-based, all-solid photonic bandgap fiber. , 2018, , .		0
154	All solid nitroaniline-silica photonic bandgap fiber. , 2018, , .		0
155	Special Section Guest Editorial: Optical Fiber Sensor Technology. Optical Engineering, 2019, 58, 1.	1.0	0
156	Optical Fiber Ring Resonator Ethanol Vapor Sensor. , 2021, , .		0
157	Phase-shifted Bragg grating inscription in photonic crystal fibers by UV phase mask beam stop technique. , 2020, , .		0
158	Optical fiber sensors for detecting spraying drift in drone agricultural applications. , 2022, , .		0
159	Light resonators imprinted onto optical fibers using multi-photon lithography. , 2022, , .		0