

Annamaria Cucinotta

List of Publications by Year in descending order

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216
papers

2,425
citations

236612

25
h-index

233125

45
g-index

216
all docs

216
docs citations

216
times ranked

1502
citing authors

#	ARTICLE	IF	CITATIONS
1	Complex FEM modal solver of optical waveguides with PML boundary conditions. <i>Optical and Quantum Electronics</i> , 2001, 33, 359-371.	1.5	163
2	Tailoring of Flattened Dispersion in Highly Nonlinear Photonic Crystal Fibers. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 1065-1067.	1.3	156
3	Leakage properties of photonic crystal fibers. <i>Optics Express</i> , 2002, 10, 1314.	1.7	135
4	Holey fiber analysis through the finite-element method. <i>IEEE Photonics Technology Letters</i> , 2002, 14, 1530-1532.	1.3	134
5	Dispersion properties of square-lattice photonic crystal fibers. <i>Optics Express</i> , 2004, 12, 941.	1.7	107
6	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.	5.3	86
7	Characterization of microstructured optical fibers for wideband dispersion compensation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 1958.	0.8	75
8	Toward A Highly Specific DNA Biosensor: PNA-Modified Suspended-Core Photonic Crystal Fibers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 967-972.	1.9	72
9	Polarization splitter based on a square-lattice photonic-crystal fiber. <i>Optics Letters</i> , 2006, 31, 441.	1.7	68
10	Amplification properties of Er/sub 3+/ -doped photonic crystal fibers. <i>Journal of Lightwave Technology</i> , 2003, 21, 782-788.	2.7	64
11	Label-free DNA biosensor based on a peptide nucleic acid-functionalized microstructured optical fiber-Bragg grating. <i>Journal of Biomedical Optics</i> , 2013, 18, 057004.	1.4	64
12	Perturbation analysis of dispersion properties in photonic crystal fibers through the finite element method. <i>Journal of Lightwave Technology</i> , 2002, 20, 1433-1442.	2.7	54
13	Single-mode regime of square-lattice photonic crystal fibers. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 1655.	0.8	52
14	Optical Fiber Sensors for Label-Free DNA Detection. <i>Journal of Lightwave Technology</i> , 2017, 35, 3461-3472.	2.7	43
15	Optical Fiber Ring Cavity Sensor for Label-Free DNA Detection. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 1176-1183.	1.9	40
16	Design of all-solid leakage channel fibers with large mode area and low bending loss. <i>Optics Express</i> , 2009, 17, 4913.	1.7	38
17	Study of raman amplification properties in triangular photonic crystal fibers. <i>Journal of Lightwave Technology</i> , 2003, 21, 2247-2254.	2.7	37
18	Design of Erbium-Doped Triangular Photonic-Crystal-Fiber-Based Amplifiers. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 2027-2029.	1.3	37

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19	Thermal Effects on the Single-Mode Regime of Distributed Modal Filtering Rod Fiber. <i>Journal of Lightwave Technology</i> , 2012, 30, 3494-3499.	2.7	37
20	All-Silica Hollow-Core Microstructured Bragg Fibers for Biosensor Application. <i>IEEE Sensors Journal</i> , 2008, 8, 1280-1286.	2.4	35
21	Perfectly matched anisotropic layers for optical waveguide analysis through the finite-element beam-propagation method. <i>Microwave and Optical Technology Letters</i> , 1999, 23, 67-69.	0.9	30
22	Numerical and experimental analysis of erbium-doped fiber linear cavity lasers. <i>Optics Communications</i> , 1998, 156, 264-270.	1.0	29
23	Cut-off analysis of 19-cell Yb-doped double-cladding rod-type photonic crystal fibers. <i>Optics Express</i> , 2011, 19, 9896.	1.7	27
24	Modeling of Photonic Crystal Fiber Raman Amplifiers. <i>Journal of Lightwave Technology</i> , 2004, 22, 1707-1713.	2.7	26
25	S-band depressed-cladding erbium-doped fiber amplifier with double-pass configuration. <i>Optics Letters</i> , 2006, 31, 3228.	1.7	26
26	Analysis of the Modal Content Into Large-Mode-Area Photonic Crystal Fibers Under Heat Load. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 323-330.	1.9	26
27	Dispersion Engineering of Highly Nonlinear Chalcogenide Suspended-Core Fibers. <i>IEEE Photonics Journal</i> , 2015, 7, 1-8.	1.0	25
28	Modeling of erbium doped fiber ring laser. <i>Optics Communications</i> , 1997, 141, 21-24.	1.0	21
29	Thermally resilient Tm-doped large mode area photonic crystal fiber with symmetry-free cladding. <i>Optics Express</i> , 2014, 22, 9707.	1.7	21
30	Four different diode lasers comparison on soft tissues surgery: a preliminary <i>in vivo</i> study. <i>Laser Therapy</i> , 2016, 25, 105-114.	0.8	21
31	Three-dimensional finite-element beam propagation method: assessments and developments. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 1124.	0.8	20
32	450 nm Blue Laser and Oral Surgery: Preliminary <i>ex vivo</i> Study. <i>Journal of Contemporary Dental Practice</i> , 2016, 17, 795-800.	0.2	20
33	Optical parametric amplification in all-silica triangular-core photonic crystal fibers. <i>Applied Physics B: Lasers and Optics</i> , 2005, 81, 251-255.	1.1	19
34	Single-Mode Regime in Large-Mode-Area Rare-Earth-Doped Rod-Type PCFs. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009, 15, 54-60.	1.9	19
35	The geek and the chemist: Antioxidant capacity measurements by DPPH assay in beverages using open source tools, consumer electronics and 3D printing. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 559-566.	4.0	19
36	Single-mode analysis of Yb-doped double-cladding distributed spectral filtering photonic crystal fibers. <i>Optics Express</i> , 2010, 18, 27197.	1.7	18

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37	Numerical Modeling of S-Band EDFA Based on Distributed Fiber Loss. Journal of Lightwave Technology, 2008, 26, 2168-2174.	2.7	17
38	Thermal modeling of gain competition in Yb-doped large-mode-area photonic-crystal fiber amplifier. Optics Express, 2015, 23, 18638.	1.7	17
39	Inhibited coupling guiding hollow fibers for label-free DNA detection. Optics Express, 2017, 25, 26215.	1.7	17
40	Polarization-Maintaining Large Mode Area Fiber Design for 2- μm Operation. IEEE Photonics Technology Letters, 2016, 28, 2483-2486.	1.3	16
41	Single-Mode Propagation in Yb-Doped Large Mode Area Fibers With Reduced Cladding Symmetry. IEEE Photonics Technology Letters, 2014, 26, 2454-2457.	1.3	15
42	Suppression of Higher-Order Modes by Segmented Core Doping in Rod-Type Photonic Crystal Fibers. Journal of Lightwave Technology, 2009, 27, 4935-4942.	2.7	14
43	The effect of CO ₂ and Nd:YAP lasers on CAD/CAM Ceramics: SEM, EDS and thermal studies. Laser Therapy, 2016, 25, 27-34.	0.8	14
44	Mode discrimination criterion for effective differential amplification in Yb-doped fiber design for high power operation. Optics Express, 2017, 25, 29013.	1.7	14
45	Impact of the cell geometry on the spectral properties of photonic crystal structures. Applied Physics B: Lasers and Optics, 2001, 73, 595-600.	1.1	13
46	Magnetic Field Sensor Based on Backscattered Intensity Using Ferrofluid. IEEE Photonics Technology Letters, 2013, 25, 1481-1484.	1.3	12
47	Symmetry-Free Tm-Doped Photonic Crystal Fiber With Enhanced Mode Area. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 544-550.	1.9	12
48	Theory of thermo-optic instabilities in dual-core fiber amplifiers. Optics Letters, 2018, 43, 4775.	1.7	12
49	Hollow Core Inhibited Coupling Fibers for Biological Optical Sensing. Journal of Lightwave Technology, 2019, 37, 2598-2604.	2.7	12
50	Silk Fibroin Enabled Optical Fiber Methanol Vapor Sensor. IEEE Photonics Technology Letters, 2020, 32, 514-517.	1.3	12
51	Microfabrication of polymer microneedle arrays using two-photon polymerization. Journal of Photochemistry and Photobiology B: Biology, 2022, 229, 112424.	1.7	12
52	Modification of a long period grating-based fiber optic for DNA biosensing. Proceedings of SPIE, 2011, , .	0.8	11
53	Static and dynamic mode instabilities in dual-core fiber amplifiers. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 757.	0.9	11
54	Nonlinear finite-element semivectorial propagation method for three-dimensional optical waveguides. IEEE Photonics Technology Letters, 1999, 11, 209-211.	1.3	10

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55	405 nm diode laser, halogen lamp and LED device comparison in dental composites cure: an “in vitro” experimental trial. Laser Therapy, 2015, 24, 265-274.	0.8	10
56	Hollow-Core Fiber-Based Biosensor: A Platform for Lab-in-Fiber Optical Biosensors for DNA Detection. Sensors, 2022, 22, 5144.	2.1	10
57	Silica bridge impact on hollow-core Bragg fiber transmission properties. , 2007, , .		9
58	Guiding Properties of Silica/Air Hollow-Core Bragg Fibers. Journal of Lightwave Technology, 2008, 26, 1877-1884.	2.7	9
59	Single-Mode Design Guidelines for 19-Cell Double-Cladding Photonic Crystal Fibers. Journal of Lightwave Technology, 2012, 30, 1909-1914.	2.7	9
60	Numerical design for efficiently coupling conventional and photonic-crystal waveguides. Microwave and Optical Technology Letters, 2004, 42, 196-199.	0.9	8
61	Modeling thermo-optic effect in large mode area double cladding photonic crystal fibers. International Journal of Modern Physics B, 2014, 28, 1442002.	1.0	8
62	Disilicate Dental Ceramic Surface Preparation by 1070 nm Fiber Laser: Thermal and Ultrastructural Analysis. Bioengineering, 2018, 5, 10.	1.6	8
63	Thermal Effects on Modal Properties of Dual-Core Yb-Doped Fibers. Journal of Lightwave Technology, 2019, 37, 1075-1083.	2.7	8
64	Dental ablation with 1064 nm, 500 ps, Diode pumped solid state laser: A preliminary study. Laser Therapy, 2013, 22, 195-199.	0.8	8
65	Electromagnetic field confined and tailored with a few air holes in a photonic-crystal fiber. Applied Physics B: Lasers and Optics, 2005, 81, 409-414.	1.1	7
66	Air-guiding photonic crystal fibers with modified honeycomb lattice. , 0, , .		7
67	Numerical analysis of hollow core photonic band gap fibers with modified honeycomb lattice. Optical and Quantum Electronics, 2007, 38, 903-912.	1.5	7
68	Nanosecond and sub-nanosecond pulsed laser ablation of thin single and multi-layer packaging films. Applied Surface Science, 2013, 285, 300-308.	3.1	7
69	Genotyping Single Nucleotide Polymorphisms Using Different Molecular Beacon Multiplexed within a Suspended Core Optical Fiber. Sensors, 2014, 14, 14488-14499.	2.1	7
70	Modal analysis in 2D media with variable disorder. Optics Express, 2015, 23, 3681.	1.7	7
71	Full-vector modeling of thermally-driven gain competition in Yb-doped reduced symmetry photonic-crystal fiber. Optical and Quantum Electronics, 2016, 48, 1.	1.5	7
72	Finite element method resolution of non-linear Helmholtz equation. Optical and Quantum Electronics, 1998, 30, 457-465.	1.5	6

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73	Overview on finite-element time-domain approaches for optical propagation analysis. Optical and Quantum Electronics, 2003, 35, 1005-1023.	1.5	6
74	Multipump flattened-gain Raman amplifiers based on photonic-crystal fibers. IEEE Photonics Technology Letters, 2005, 17, 2556-2558.	1.3	6
75	Confinement loss spectral behavior in hollow-core Bragg fibers. Optics Letters, 2007, 32, 3164.	1.7	6
76	Polycrystalline CdTe thin film mini-modules monolithically integrated by fiber laser. Thin Solid Films, 2014, 562, 638-647.	0.8	6
77	Nanosecond pulsed fiber laser irradiation for enhanced zirconia crown adhesion: Morphological, chemical, thermal and mechanical analysis. Journal of Photochemistry and Photobiology B: Biology, 2021, 219, 112189.	1.7	6
78	S-band EDFA with ASE suppression induced by bending loss of depressed-cladding active fiber. , 2005, , .		6
79	New design of single-mode large-mode-area photonic crystal fibers. , 2005, 5950, 209.		5
80	Analysis of mid-infrared lasing in active random media. Optics Express, 2015, 23, 12286.	1.7	5
81	Optical parametric amplification in dispersion-flattened highly nonlinear photonic crystal fibers. , 2005, , .		4
82	Patch Array Antenna for UWB Radar Applications. , 2006, , .		4
83	All-silica double-pass S+C+L band EDFA. Electronics Letters, 2007, 43, 329.	0.5	4
84	Photonic crystal fibers: perturbation analysis of polarization and dispersion properties. , 0, , .		3
85	Wide bandgap air-guiding modified honeycomb photonic crystal fibers. , 0, , .		3
86	Low-cost level and pressure plastic optical fiber sensor. , 2006, 6189, 559.		3
87	Tunability of erbium-doped fibre ring laser based on bending loss of active fibre. Electronics Letters, 2007, 43, 500.	0.5	3
88	Simultaneous liquid level and refractive index measurements with a POF-based sensor. , 2007, , .		3
89	High brilliance fiber lasers for the scribing of photovoltaic modules. , 2009, , .		3
90	Air-suspended solid-core fibers for sensing. , 2009, , .		3

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91	Long period grating-based fiber optic sensor for label-free DNA detection. , 2011, , .		3
92	Remote PCF-based sensors multiplexing by using optical add-drop multiplexers. Optics and Laser Technology, 2014, 57, 9-11.	2.2	3
93	Use of 1070 nm fiber lasers in oral surgery: preliminary <i>ex vivo</i> study with FBG temperature monitoring. Laser Therapy, 2017, 26, 311-318.	0.8	3
94	Sensing Optimum in the Raw: Leveraging the Raw-Data Imaging Capabilities of Raspberry Pi for Diagnostics Applications. Sensors, 2021, 21, 3552.	2.1	3
95	Active nonlinear integrated optical devices: a numerical analysis. Optical and Quantum Electronics, 1999, 31, 1073-1084.	1.5	2
96	Mesh Truncation in Finite Element Modal Analysis of Dielectric Waveguides. Electromagnetics, 2002, 22, 331-343.	0.3	2
97	Cutoff properties of large-mode-area photonic crystal fibers. , 0, , .		2
98	Bending influence on depressed-cladding EDFA gain spectrum. , 0, , .		2
99	Square-Lattice Photonic Crystal Fiber Cutoff Properties. , 2006, , .		2
100	Tunability of the gain spectrum in an erbium-doped fiber with depressed-cladding. , 2006, , .		2
101	40 dB gain S-band depressed-cladding EDFA with double-pass configuration. , 2006, , .		2
102	S band erbium-doped fiber ring laser tunable through the active fiber bending losses. , 2007, , .		2
103	Bending-induced single-mode behaviour of a polarizing double-clad Yb-doped photonic crystal fiber. , 2010, , .		2
104	Label-free DNA biosensor based on doubled tilted fiber Bragg grating. , 2012, , .		2
105	Comparison of thermally-induced single-mode regime changes in Yb-doped large mode area photonic crystal fibers. , 2013, , .		2
106	Thermal effect-resilient design of large mode area double-cladding Yb-doped photonic crystal fibers. Proceedings of SPIE, 2013, , .	0.8	2
107	Confinement loss scaling law analysis in tube lattice fibers for terahertz applications. , 2014, , .		2
108	Thermo-optical effects in Tm-doped large mode area photonic crystal fibers. Proceedings of SPIE, 2014, , .	0.8	2

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109	Functionalized microstructured optical fibers for specific nucleic acid detection. , 2015, , 229-246.		2
110	Large mode area aperiodic fiber designs for robust singlemode emission under high thermal load. , 2015, , .		2
111	Photodynamic therapy: a synergy between light and colors. Proceedings of SPIE, 2015, , .	0.8	2
112	Dental composite polymerization: a three different sources comparison. , 2015, , .		2
113	Chalcogenide suspended-core fibers for supercontinuum generation in the mid-infrared. , 2015, , .		2
114	Blue diode laser: a new approach in oral surgery?. , 2016, , .		2
115	Protein Detection Using Hollow-Core Tube Lattice Fibers. , 2018, , .		2
116	Mode Phase Variation and Sensitivity to Thermal Load in Three-Core Optical Fibers. Journal of Lightwave Technology, 2020, 38, 2400-2405.	2.7	2
117	Numerical investigation on broadband mid-infrared supercontinuum generation in chalcogenide suspended-core fibers. Chinese Physics B, 2017, 26, 054216.	0.7	2
118	Scaling Laws in Tube Lattice Fibers. , 2015, , .		2
119	Open Waveguide Boundary Conditions for Finite Element Modal Analysis. , 2000, , .		2
120	Thermally-Driven Mode Coupling in Multi-Core Optical Fibers. , 2018, , .		2
121	Raman gain coefficient of solid-core honeycomb photonic crystal fibers. , 0, , .		1
122	Impact of background losses on photonic crystal fiber Raman amplifier. , 0, , .		1
123	Photonic crystal fiber based polarization splitter. , 0, , .		1
124	Gain flatness in photonic crystal fiber Raman amplifiers. , 2005, , .		1
125	S+C+L Double Pass EDF Amplifier, Amplified Spontaneous Emission Source and Multiwavelength Ring Laser. , 2006, , .		1
126	Spectral Behavior of Integrated Antiresonant Reflecting Hollow-Core Waveguides. Journal of Lightwave Technology, 2007, 25, 2599-2604.	2.7	1

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127	Guided mode cutoff in rare-earth doped rod-type PCFs. , 2008, , .		1
128	Bio-sensor based on a hollow-core Bragg fiber. , 2008, , .		1
129	Analysis and design of photonic crystal fibers. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 1227-1235.	0.5	1
130	Guiding and amplification properties of rod-type photonic crystal fibers with sectioned core doping. Proceedings of SPIE, 2009, , .	0.8	1
131	Sensing through suspended solid core photonic crystal fiber. , 2009, , .		1
132	Guiding properties of kagome-lattice hollow-core fibers. , 2010, , .		1
133	DNA recognition by peptide nucleic acid-modified PCFs: from models to real samples. , 2010, , .		1
134	Recent status and prospects of the EU-funded ALPINE project. Proceedings of SPIE, 2011, , .	0.8	1
135	Single-mode regime of 19-cell Yb-doped double-cladding photonic crystal fibers. , 2011, , .		1
136	Single-Mode regime of large mode area double cladding photonic crystal fibers. , 2011, , .		1
137	Double Tilted Fiber Bragg Grating for label-free DNA detection. , 2011, , .		1
138	Thermal-induced refractive index change effects on distributed modal filtering properties of rod-type photonic crystal fibers. , 2012, , .		1
139	Optimization of pulsed fiber laser scribing for CdTe and CIGS solar cells. , 2012, , .		1
140	Avoided-crossing based modal cut-off analysis of 19-cell double-cladding photonic crystal fibers. Proceedings of SPIE, 2012, , .	0.8	1
141	DNA biosensors implemented on PNA-functionalized microstructured optical fibers Bragg gratings. Proceedings of SPIE, 2013, , .	0.8	1
142	Laser scribing integration of polycrystalline thin film solar cells. Proceedings of SPIE, 2013, , .	0.8	1
143	Microstructured optical fiber Bragg grating sensor for DNA detection. Proceedings of SPIE, 2013, , .	0.8	1
144	Picosecond and Nanosecond Pulsed Laser Ablation of Aluminium Foil. , 2013, , .		1

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145	Picosecond and nanosecond pulsed laser ablation of aluminium, polypropylene, polyethylene, and their thin-film combinations. , 2013, , .		1
146	Laser scribing of CIGS based thin films solar cells. , 2014, , .		1
147	Design of double-cladding large mode area all-solid photonic bandgap fibers. Proceedings of SPIE, 2014, , .	0.8	1
148	Double-cladding photonic crystal fibers with reduced cladding symmetry for Tm-doped lasers. Proceedings of SPIE, 2014, , .	0.8	1
149	Biosensor based on microstructured optical fiber Bragg grating for DNA detection. , 2014, , .		1
150	CO ₂ and Nd:YAP lasers irradiation on CAD/CAM Ceramics: SEM, EDS and thermal studies (Part 1). , 2015, , .		1
151	810nm, 980nm, 1470nm and 1950nm diode laser comparison: a preliminary <i>ex vivo</i> study on oral soft tissues. Proceedings of SPIE, 2015, , .	0.8	1
152	Inner cladding influence on large mode area photonic crystal fiber properties under severe heat load. , 2016, , .		1
153	Radiation absorption in different kinds of tissue analysis: ex vivo study with supercontinuum laser source. , 2016, , .		1
154	Hard dental tissues laser welding: a new help for fractured teeth? A preliminary <i>ex vivo</i> study. Laser Therapy, 2018, 27, 105-110.	0.8	1
155	Thermo-optical numerical modal analysis of multicore fibers for high power lasers and amplifiers. Optical Fiber Technology, 2022, 70, 102857.	1.4	1
156	Scanning near-field optical microscope for characterization of single mode fibers. , 2005, , .		0
157	Polarization selective coupling in three-core holey fibers. , 0, , .		0
158	Modified Honeycomb Photonic Bandgap Fiber Effectively Single-Mode Regime: A Numerical Analysis. , 2006, , .		0
159	From S- to C-band amplification in a depressed-cladding EDFA. , 2006, , .		0
160	Scanning Near-Field Microscopy of Photonic Crystal Fibers. , 2006, , .		0
161	Nonlinear photonic crystal fiber with high birefringence made of silicate glass. , 2006, , .		0
162	Analysis of the dependence of the guided-mode field distribution on the silica bridges in hollow-core Bragg fibers. , 2007, , .		0

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163	Surface mode free and highly birefringent single-mode hollow core photonic bandgap fibers. , 2007, , .		0
164	Spectral Behavior and Guided-to-Surface Mode Transition of Arch-Shaped Hollow-Core Waveguides. , 2007, , .		0
165	Finite-element based photonic crystal fiber analysis: From solid to hollow core fibers. , 2008, , .		0
166	Fundamental and high-order mode bending loss in leakage channel fibers. , 2008, , .		0
167	Tailoring of the transmission window in realistic hollow-core Bragg fibers. , 2008, , .		0
168	Single-mode amplification in Yb-doped rod-type photonic crystal fibers for high brilliance lasers. , 2009, , .		0
169	Dynamic behaviour of an Ytterbium-doped rodlike PCF laser. , 2009, , .		0
170	Guided mode gain competition in Yb-doped rod-type photonic crystal fibers. , 2009, , .		0
171	Octagonal Large-Mode-Area Leakage Channel Fiber with Reduced Bending Loss. , 2010, , .		0
172	Higher-order mode suppression in rod-type photonic crystal fibers with sectioned doping and enlarged core. , 2010, , .		0
173	Active photonic crystal fiber amplifiers and lasers. , 2010, , .		0
174	Bending properties of anti-symmetric hybrid photonic crystal fibers. , 2011, , .		0
175	Hybrid large mode area photonic crystal fiber for distributed spectral filtering and single-mode operation. Proceedings of SPIE, 2011, , .	0.8	0
176	Label-free DNA detection with PNA modified long period fiber grating-based sensor. , 2011, , .		0
177	Effective area of a bent polarizing double-clad Yb-doped photonic crystal fiber. , 2011, , .		0
178	Thermal effects in Yb-doped double-cladding Distributed Modal Filtering rod-type fibers. , 2012, , .		0
179	DNA biosensor based on a double tilted fiber Bragg grating. , 2012, , .		0
180	Anti-symmetric hybrid photonic crystal fibers with enhanced filtering and bending properties. , 2012, , .		0

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181	Enhanced thermal-effect resilience in distributed modal filtering large mode area photonic crystal fibers. , 2013, , .		0
182	PNA-modified photonic crystal fibers for DNA detection. , 2013, , .		0
183	Dental tissue ablation by means of a picoseconds laser. , 2013, , .		0
184	Tm-doped Rod-type Photonic Crystal Fibers with Symmetry-Free Cladding. , 2014, , .		0
185	Photonic crystal fibers platform for biosensing applications. , 2014, , .		0
186	Laser processing of thin films for industrial packaging. , 2014, , .		0
187	Bio-functionalized hollow core photonic crystal fibers for label-free DNA detection. , 2014, , .		0
188	Symmetry-free large-mode area rod-type photonic crystal fibers. , 2014, , .		0
189	Microstructured Optical Fibers for chemical and biological analysis. , 2014, , .		0
190	Laser processing of mono- and multi-layer polymeric materials. , 2014, , .		0
191	Circular Tube lattice fibers for terahertz applications. , 2014, , .		0
192	Thermo-optical effects in large mode area photonic crystal fibers. , 2014, , .		0
193	Yb-doped large mode area fibers with reduced cladding symmetry. Proceedings of SPIE, 2015, , .	0.8	0
194	Highly nonlinear chalcogenide suspended-core fibers for applications in the mid-infrared. Proceedings of SPIE, 2015, , .	0.8	0
195	Modes analysis in random structures varying the disorder magnitude. , 2015, , .		0
196	Mid-IR random lasing effect induced by increased impact of disorder in a planar slab. , 2016, , .		0
197	Modelling of thermal effects and gain competition in Yb-doped large mode area photonic crystal fibers. , 2016, , .		0
198	Thermal effects and gain competition in Yb-doped large mode area fibers for high-power applications. , 2016, , .		0

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199	Inner cladding influence on mode interaction in symmetry-free photonic crystal fibers under heat load. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	1.5	0
200	Gain competition in Yb-doped symmetry-free photonic crystal fibers under severe heat load. , 2017, , .		0
201	Improved performances of photonic crystal fibers for high power laser operation. , 2017, , .		0
202	Thermal induced dynamics of gain competition in Yb-doped Symmetry-Free Photonic Crystal Fibers. , 2017, , .		0
203	Phasing and Guidance Properties of Multi-Core Fibers under Heat Load. , 2019, , .		0
204	Guidance properties and thermal effects in 9-core Yb-doped fiber for high power applications. , 2019, , .		0
205	Modal Properties of Yb-Doped 4-Core Fibers under Heat Load. , 2019, , .		0
206	Pulsed laser machining of high-performance engineering and biomedical alloys. <i>International Journal of Machining and Machinability of Materials</i> , 2020, 22, 137.	0.1	0
207	Heat Load Influence on Supermodes in Yb-Doped Four-Core Fibers. <i>Journal of Lightwave Technology</i> , 2021, 39, 263-269.	2.7	0
208	Optical birefringence in strain tuneable silk fibroin whispering gallery mode cavities. , 2021, , .		0
209	Anisotropic and magneto-optic waveguide numerical analysis. , 2000, , .		0
210	Microstructured Fibers: Modelling, Design and Applications. , 2008, , .		0
211	Yb-doped rod-type photonic crystal fibers for single-mode amplification. , 2009, , .		0
212	Optical Fiber Sensor for DNA Detection Based on Doubled-Tilted Bragg Grating. <i>Lecture Notes in Electrical Engineering</i> , 2014, , 349-352.	0.3	0
213	Design of an amplifier model accounting for thermal effect in fully aperiodic large pitch fibers. , 2018, , .		0
214	Ultrastructural analysis of dental ceramic surface processed by a 1070 nm fiber laser. , 2018, , .		0
215	Guidance properties and phase shift of a 9-core fiber amplifier for high power operation in presence of consistent thermal load. , 2019, , .		0
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