

# 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  
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216  
docs citations

216  
times ranked

1502  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfabrication of polymer microneedle arrays using two-photon polymerization. Journal of Photochemistry and Photobiology B: Biology, 2022, 229, 112424.	1.7	12
2	Thermo-optical numerical modal analysis of multicore fibers for high power lasers and amplifiers. Optical Fiber Technology, 2022, 70, 102857.	1.4	1
3	Hollow-Core Fiber-Based Biosensor: A Platform for Lab-in-Fiber Optical Biosensors for DNA Detection. Sensors, 2022, 22, 5144.	2.1	10
4	Heat Load Influence on Supermodes in Yb-Doped Four-Core Fibers. Journal of Lightwave Technology, 2021, 39, 263-269.	2.7	0
5	Sensing Optimum in the Raw: Leveraging the Raw-Data Imaging Capabilities of Raspberry Pi for Diagnostics Applications. Sensors, 2021, 21, 3552.	2.1	3
6	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
7	Optical birefringence in strain tuneable silk fibroin whispering gallery mode cavities. , 2021, , .		0
8	Pulsed laser machining of high-performance engineering and biomedical alloys. International Journal of Machining and Machinability of Materials, 2020, 22, 137.	0.1	0
9	Silk Fibroin Enabled Optical Fiber Methanol Vapor Sensor. IEEE Photonics Technology Letters, 2020, 32, 514-517.	1.3	12
10	Mode Phase Variation and Sensitivity to Thermal Load in Three-Core Optical Fibers. Journal of Lightwave Technology, 2020, 38, 2400-2405.	2.7	2
11	Thermo-optic instabilities in asymmetric dual-core amplifiers. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1494.	0.9	0
12	Phasing and Guidance Properties of Multi-Core Fibers under Heat Load. , 2019, , .		0
13	Hollow Core Inhibited Coupling Fibers for Biological Optical Sensing. Journal of Lightwave Technology, 2019, 37, 2598-2604.	2.7	12
14	Guidance properties and thermal effects in 9-core Yb-doped fiber for high power applications. , 2019, , .		0
15	Modal Properties of Yb-Doped 4-Core Fibers under Heat Load. , 2019, , .		0
16	The geek and the chemist: Antioxidant capacity measurements by DPPH assay in beverages using open source tools, consumer electronics and 3D printing. Sensors and Actuators B: Chemical, 2019, 282, 559-566.	4.0	19
17	Thermal Effects on Modal Properties of Dual-Core Yb-Doped Fibers. Journal of Lightwave Technology, 2019, 37, 1075-1083.	2.7	8
18	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

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19	Guidance properties and phase shift of a 9-core fiber amplifier for high power operation in presence of consistent thermal load. , 2019, , .		0
20	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
21	Theory of thermo-optic instabilities in dual-core fiber amplifiers. Optics Letters, 2018, 43, 4775.	1.7	12
22	Protein Detection Using Hollow-Core Tube Lattice Fibers. , 2018, , .		2
23	Disilicate Dental Ceramic Surface Preparation by 1070 nm Fiber Laser: Thermal and Ultrastructural Analysis. Bioengineering, 2018, 5, 10.	1.6	8
24	Thermally-Driven Mode Coupling in Multi-Core Optical Fibers. , 2018, , .		2
25	Design of an amplifier model accounting for thermal effect in fully aperiodic large pitch fibers. , 2018, , .		0
26	Ultrastructural analysis of dental ceramic surface processed by a 1070 nm fiber laser. , 2018, , .		0
27	Optical Fiber Sensors for Label-Free DNA Detection. Journal of Lightwave Technology, 2017, 35, 3461-3472.	2.7	43
28	Inner cladding influence on mode interaction in symmetry-free photonic crystal fibers under heat load. Optical and Quantum Electronics, 2017, 49, 1.	1.5	0
29	Gain competition in Yb-doped symmetry-free photonic crystal fibers under severe heat load. , 2017, , .		0
30	Improved performances of photonic crystal fibers for high power laser operation. , 2017, , .		0
31	Thermal induced dynamics of gain competition in Yb-doped Symmetry-Free Photonic Crystal Fibers. , 2017, , .		0
32	Inhibited coupling guiding hollow fibers for label-free DNA detection. Optics Express, 2017, 25, 26215.	1.7	17
33	Mode discrimination criterion for effective differential amplification in Yb-doped fiber design for high power operation. Optics Express, 2017, 25, 29013.	1.7	14
34	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
35	Numerical investigation on broadband mid-infrared supercontinuum generation in chalcogenide suspended-core fibers. Chinese Physics B, 2017, 26, 054216.	0.7	2
36	Four different diode lasers comparison on soft tissues surgery: a preliminary <i>ex vivo</i> study. Laser Therapy, 2016, 25, 105-114.	0.8	21

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37	The effect of CO <sub>2</sub> and Nd:YAP lasers on CAD/CAM Ceramics: SEM, EDS and thermal studies. Laser Therapy, 2016, 25, 27-34.	0.8	14
38	Mid-IR random lasing effect induced by increased impact of disorder in a planar slab. , 2016, , .		0
39	Modelling of thermal effects and gain competition in Yb-doped large mode area photonic crystal fibers. , 2016, , .		0
40	Thermal effects and gain competition in Yb-doped large mode area fibers for high-power applications. , 2016, , .		0
41	Polarization-Maintaining Large Mode Area Fiber Design for 2- $\mu\text{m}$ Operation. IEEE Photonics Technology Letters, 2016, 28, 2483-2486.	1.3	16
42	Inner cladding influence on large mode area photonic crystal fiber properties under severe heat load. , 2016, , .		1
43	Blue diode laser: a new approach in oral surgery?. , 2016, , .		2
44	Radiation absorption in different kinds of tissue analysis: ex vivo study with supercontinuum laser source. , 2016, , .		1
45	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
46	Analysis of the Modal Content Into Large-Mode-Area Photonic Crystal Fibers Under Heat Load. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 323-330.	1.9	26
47	450 nm Blue Laser and Oral Surgery: Preliminary ex vivo Study. Journal of Contemporary Dental Practice, 2016, 17, 795-800.	0.2	20
48	Functionalized microstructured optical fibers for specific nucleic acid detection. , 2015, , 229-246.		2
49	405 nm diode laser, halogen lamp and LED device comparison in dental composites cure: an &ldquo;in vitro&rdquo; experimental trial. Laser Therapy, 2015, 24, 265-274.	0.8	10
50	Yb-doped large mode area fibers with reduced cladding symmetry. Proceedings of SPIE, 2015, , .	0.8	0
51	Large mode area aperiodic fiber designs for robust singlemode emission under high thermal load. , 2015, , .		2
52	Highly nonlinear chalcogenide suspended-core fibers for applications in the mid-infrared. Proceedings of SPIE, 2015, , .	0.8	0
53	CO <sub>2</sub> and Nd: YAP lasers irradiation on CAD/CAM Ceramics: SEM, EDS and thermal studies (Part 1). , 2015, , .		1
54	Photodynamic therapy: a synergy between light and colors. Proceedings of SPIE, 2015, , .	0.8	2

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55	Dental composite polymerization: a three different sources comparison. , 2015, , .		2
56	Chalcogenide suspended-core fibers for supercontinuum generation in the mid-infrared. , 2015, , .		2
57	810nm, 980nm, 1470nm and 1950nm diode laser comparison: a preliminary "ex vivo" study on oral soft tissues. Proceedings of SPIE, 2015, , .	0.8	1
58	Modal analysis in 2D media with variable disorder. Optics Express, 2015, 23, 3681.	1.7	7
59	Dispersion Engineering of Highly Nonlinear Chalcogenide Suspended-Core Fibers. IEEE Photonics Journal, 2015, 7, 1-8.	1.0	25
60	Analysis of mid-infrared lasing in active random media. Optics Express, 2015, 23, 12286.	1.7	5
61	Thermal modeling of gain competition in Yb-doped large-mode-area photonic-crystal fiber amplifier. Optics Express, 2015, 23, 18638.	1.7	17
62	Modes analysis in random structures varying the disorder magnitude. , 2015, , .		0
63	Detection of unamplified genomic DNA by a PNA-based microstructured optical fiber (MOF) Bragg-grating optofluidic system. Biosensors and Bioelectronics, 2015, 63, 248-254.	5.3	86
64	Scaling Laws in Tube Lattice Fibers. , 2015, , .		2
65	Tm-doped Rod-type Photonic Crystal Fibers with Symmetry-Free Cladding. , 2014, , .		0
66	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
67	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
68	Photonic crystal fibers platform for biosensing applications. , 2014, , .		0
69	Laser processing of thin films for industrial packaging. , 2014, , .		0
70	Genotyping Single Nucleotide Polymorphisms Using Different Molecular Beacon Multiplexed within a Suspended Core Optical Fiber. Sensors, 2014, 14, 14488-14499.	2.1	7
71	Laser scribing of CIGS based thin films solar cells. , 2014, , .		1
72	Thermally resilient Tm-doped large mode area photonic crystal fiber with symmetry-free cladding. Optics Express, 2014, 22, 9707.	1.7	21

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73	Confinement loss scaling law analysis in tube lattice fibers for terahertz applications. , 2014, , .		2
74	Bio-functionalized hollow core photonic crystal fibers for label-free DNA detection. , 2014, , .		0
75	Thermo-optical effects in Tm-doped large mode area photonic crystal fibers. Proceedings of SPIE, 2014, , .	0.8	2
76	Design of double-cladding large mode area all-solid photonic bandgap fibers. Proceedings of SPIE, 2014, , .	0.8	1
77	Symmetry-free large-mode area rod-type photonic crystal fibers. , 2014, , .		0
78	Double-cladding photonic crystal fibers with reduced cladding symmetry for Tm-doped lasers. Proceedings of SPIE, 2014, , .	0.8	1
79	Remote PCF-based sensors multiplexing by using optical add-drop multiplexers. Optics and Laser Technology, 2014, 57, 9-11.	2.2	3
80	Polycrystalline CdTe thin film mini-modules monolithically integrated by fiber laser. Thin Solid Films, 2014, 562, 638-647.	0.8	6
81	Microstructured Optical Fibers for chemical and biological analysis. , 2014, , .		0
82	Laser processing of mono- and multi-layer polymeric materials. , 2014, , .		0
83	Circular Tube lattice fibers for terahertz applications. , 2014, , .		0
84	Thermo-optical effects in large mode area photonic crystal fibers. , 2014, , .		0
85	Biosensor based on microstructured optical fiber Bragg grating for DNA detection. , 2014, , .		1
86	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
87	Optical Fiber Sensor for DNA Detection Based on Doubled-Tilted Bragg Grating. Lecture Notes in Electrical Engineering, 2014, , 349-352.	0.3	0
88	Label-free DNA biosensor based on a peptide nucleic acid-functionalized microstructured optical fiber-Bragg grating. Journal of Biomedical Optics, 2013, 18, 057004.	1.4	64
89	DNA biosensors implemented on PNA-functionalized microstructured optical fibers Bragg gratings. Proceedings of SPIE, 2013, , .	0.8	1
90	Laser scribing integration of polycrystalline thin film solar cells. Proceedings of SPIE, 2013, , .	0.8	1

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91	Magnetic Field Sensor Based on Backscattered Intensity Using Ferrofluid. IEEE Photonics Technology Letters, 2013, 25, 1481-1484.	1.3	12
92	Comparison of thermally-induced single-mode regime changes in Yb-doped large mode area photonic crystal fibers. , 2013, , .		2
93	Microstructured optical fiber Bragg grating sensor for DNA detection. Proceedings of SPIE, 2013, , .	0.8	1
94	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
95	Picosecond and Nanosecond Pulsed Laser Ablation of Aluminium Foil. , 2013, , .		1
96	Picosecond and nanosecond pulsed laser ablation of aluminium, polypropylene, polyethylene, and their thin-film combinations. , 2013, , .		1
97	Thermal effect-resilient design of large mode area double-cladding Yb-doped photonic crystal fibers. Proceedings of SPIE, 2013, , .	0.8	2
98	Enhanced thermal-effect resilience in distributed modal filtering large mode area photonic crystal fibers. , 2013, , .		0
99	PNA-modified photonic crystal fibers for DNA detection. , 2013, , .		0
100	Dental tissue ablation by means of a picoseconds laser. , 2013, , .		0
101	Dental ablation with 1064 nm, 500 ps, Diode pumped solid state laser: A preliminary study. Laser Therapy, 2013, 22, 195-199.	0.8	8
102	Label-free DNA biosensor based on doubled tilted fiber Bragg grating. , 2012, , .		2
103	Thermal effects in Yb-doped double-cladding Distributed Modal Filtering rod-type fibers. , 2012, , .		0
104	DNA biosensor based on a double tilted fiber Bragg grating. , 2012, , .		0
105	Thermal-induced refractive index change effects on distributed modal filtering properties of rod-type photonic crystal fibers. , 2012, , .		1
106	Optimization of pulsed fiber laser scribing for CdTe and CIGS solar cells. , 2012, , .		1
107	Anti-symmetric hybrid photonic crystal fibers with enhanced filtering and bending properties. , 2012, , .		0
108	Avoided-crossing based modal cut-off analysis of 19-cell double-cladding photonic crystal fibers. Proceedings of SPIE, 2012, , .	0.8	1

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109	Single-Mode Design Guidelines for 19-Cell Double-Cladding Photonic Crystal Fibers. Journal of Lightwave Technology, 2012, 30, 1909-1914.	2.7	9
110	Optical Fiber Ring Cavity Sensor for Label-Free DNA Detection. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1176-1183.	1.9	40
111	Thermal Effects on the Single-Mode Regime of Distributed Modal Filtering Rod Fiber. Journal of Lightwave Technology, 2012, 30, 3494-3499.	2.7	37
112	Bending properties of anti-symmetric hybrid photonic crystal fibers. , 2011, , .		0
113	Cut-off analysis of 19-cell Yb-doped double-cladding rod-type photonic crystal fibers. Optics Express, 2011, 19, 9896.	1.7	27
114	Long period grating-based fiber optic sensor for label-free DNA detection. , 2011, , .		3
115	Recent status and prospects of the EU-funded ALPINE project. Proceedings of SPIE, 2011, , .	0.8	1
116	Hybrid large mode area photonic crystal fiber for distributed spectral filtering and single-mode operation. Proceedings of SPIE, 2011, , .	0.8	0
117	Single-mode regime of 19-cell Yb-doped double-cladding photonic crystal fibers. , 2011, , .		1
118	Single-Mode regime of large mode area double cladding photonic crystal fibers. , 2011, , .		1
119	Modification of a long period grating-based fiber optic for DNA biosensing. Proceedings of SPIE, 2011, , .	0.8	11
120	Label-free DNA detection with PNA modified long period fiber grating-based sensor. , 2011, , .		0
121	Effective area of a bent polarizing double-clad Yb-doped photonic crystal fiber. , 2011, , .		0
122	Double Tilted Fiber Bragg Grating for label-free DNA detection. , 2011, , .		1
123	Octagonal Large-Mode-Area Leakage Channel Fiber with Reduced Bending Loss. , 2010, , .		0
124	Higher-order mode suppression in rod-type photonic crystal fibers with sectioned doping and enlarged core. , 2010, , .		0
125	Active photonic crystal fiber amplifiers and lasers. , 2010, , .		0
126	Guiding properties of kagome-lattice hollow-core fibers. , 2010, , .		1



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127	DNA recognition by peptide nucleic acid-modified PCFs: from models to real samples. , 2010, , .		1
128	Single-mode analysis of Yb-doped double-cladding distributed spectral filtering photonic crystal fibers. Optics Express, 2010, 18, 27197.	1.7	18
129	Toward A Highly Specific DNA Biosensor: PNA-Modified Suspended-Core Photonic Crystal Fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 967-972.	1.9	72
130	Bending-induced single-mode behaviour of a polarizing double-clad Yb-doped photonic crystal fiber. , 2010, , .		2
131	Single-mode amplification in Yb-doped rod-type photonic crystal fibers for high brilliance lasers. , 2009, , .		0
132	High brilliance fiber lasers for the scribing of photovoltaic modules. , 2009, , .		3
133	Dynamic behaviour of an Ytterbium-doped rodlike PCF laser. , 2009, , .		0
134	Guiding and amplification properties of rod-type photonic crystal fibers with sectioned core doping. Proceedings of SPIE, 2009, , .	0.8	1
135	Single-Mode Regime in Large-Mode-Area Rare-Earth-Doped Rod-Type PCFs. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 54-60.	1.9	19
136	Sensing through suspended solid core photonic crystal fiber. , 2009, , .		1
137	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
138	Design of all-solid leakage channel fibers with large mode area and low bending loss. Optics Express, 2009, 17, 4913.	1.7	38
139	Guided mode gain competition in Yb-doped rod-type photonic crystal fibers. , 2009, , .		0
140	Air-suspended solid-core fibers for sensing. , 2009, , .		3
141	Yb-doped rod-type photonic crystal fibers for single-mode amplification. , 2009, , .		0
142	Guiding Properties of Silica/Air Hollow-Core Bragg Fibers. Journal of Lightwave Technology, 2008, 26, 1877-1884.	2.7	9
143	Numerical Modeling of S-Band EDFA Based on Distributed Fiber Loss. Journal of Lightwave Technology, 2008, 26, 2168-2174.	2.7	17
144	Finite-element based photonic crystal fiber analysis: From solid to hollow core fibers. , 2008, , .		0

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145	Fundamental and high-order mode bending loss in leakage channel fibers. , 2008, , .		0
146	All-Silica Hollow-Core Microstructured Bragg Fibers for Biosensor Application. IEEE Sensors Journal, 2008, 8, 1280-1286.	2.4	35
147	Guided mode cutoff in rare-earth doped rod-type PCFs. , 2008, , .		1
148	Tailoring of the transmission window in realistic hollow-core Bragg fibers. , 2008, , .		0
149	Bio-sensor based on a hollow-core Bragg fiber. , 2008, , .		1
150	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
151	Microstructured Fibers: Modelling, Design and Applications. , 2008, , .		0
152	Tunability of erbium-doped fibre ring laser based on bending loss of active fibre. Electronics Letters, 2007, 43, 500.	0.5	3
153	All-silica double-pass S+C+L band EDFA. Electronics Letters, 2007, 43, 329.	0.5	4
154	Silica bridge impact on hollow-core Bragg fiber transmission properties. , 2007, , .		9
155	Analysis of the dependence of the guided-mode field distribution on the silica bridges in hollow-core Bragg fibers. , 2007, , .		0
156	Simultaneous liquid level and refractive index measurements with a POF-based sensor. , 2007, , .		3
157	Surface mode free and highly birefringent single-mode hollow core photonic bandgap fibers. , 2007, , .		0
158	Confinement loss spectral behavior in hollow-core Bragg fibers. Optics Letters, 2007, 32, 3164.	1.7	6
159	Spectral Behavior of Integrated Antiresonant Reflecting Hollow-Core Waveguides. Journal of Lightwave Technology, 2007, 25, 2599-2604.	2.7	1
160	S band erbium-doped fiber ring laser tunable through the active fiber bending losses. , 2007, , .		2
161	Spectral Behavior and Guided-to-Surface Mode Transition of Arch-Shaped Hollow-Core Waveguides. , 2007, , .		0
162	Numerical analysis of hollow core photonic band gap fibers with modified honeycomb lattice. Optical and Quantum Electronics, 2007, 38, 903-912.	1.5	7

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163	Square-Lattice Photonic Crystal Fiber Cutoff Properties. , 2006, , .		2
164	Modified Honeycomb Photonic Bandgap Fiber Effectively Single-Mode Regime: A Numerical Analysis. , 2006, , .		0
165	Patch Array Antenna for UWB Radar Applications. , 2006, , .		4
166	Polarization splitter based on a square-lattice photonic-crystal fiber. Optics Letters, 2006, 31, 441.	1.7	68
167	S-band depressed-cladding erbium-doped fiber amplifier with double-pass configuration. Optics Letters, 2006, 31, 3228.	1.7	26
168	From S- to C-band amplification in a depressed-cladding EDFA. , 2006, , .		0
169	Scanning Near-Field Microscopy of Photonic Crystal Fibers. , 2006, , .		0
170	Low-cost level and pressure plastic optical fiber sensor. , 2006, 6189, 559.		3
171	S+C+L Double Pass EDF Amplifier, Amplified Spontaneous Emission Source and Multiwavelength Ring Laser. , 2006, , .		1
172	Nonlinear photonic crystal fiber with high birefringence made of silicate glass. , 2006, , .		0
173	Tunability of the gain spectrum in an erbium-doped fiber with depressed-cladding. , 2006, , .		2
174	40 dB gain S-band depressed-cladding EDFA with double-pass configuration. , 2006, , .		2
175	Optical parametric amplification in dispersion-flattened highly nonlinear photonic crystal fibers. , 2005, , .		4
176	New design of single-mode large-mode-area photonic crystal fibers. , 2005, 5950, 209.		5
177	Scanning near-field optical microscope for characterization of single mode fibers. , 2005, , .		0
178	Gain flatness in photonic crystal fiber Raman amplifiers. , 2005, , .		1
179	Optical parametric amplification in all-silica triangular-core photonic crystal fibers. Applied Physics B: Lasers and Optics, 2005, 81, 251-255.	1.1	19
180	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

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181	Single-mode regime of square-lattice photonic crystal fibers. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 1655.	0.8	52
182	Multipump flattened-gain Raman amplifiers based on photonic-crystal fibers. IEEE Photonics Technology Letters, 2005, 17, 2556-2558.	1.3	6
183	S-band EDFA with ASE suppression induced by bending loss of depressed-cladding active fiber. , 2005, , .		6
184	Numerical design for efficiently coupling conventional and photonic-crystal waveguides. Microwave and Optical Technology Letters, 2004, 42, 196-199.	0.9	8
185	Tailoring of Flattened Dispersion in Highly Nonlinear Photonic Crystal Fibers. IEEE Photonics Technology Letters, 2004, 16, 1065-1067.	1.3	156
186	Design of Erbium-Doped Triangular Photonic-Crystal-Fiber-Based Amplifiers. IEEE Photonics Technology Letters, 2004, 16, 2027-2029.	1.3	37
187	Dispersion properties of square-lattice photonic crystal fibers. Optics Express, 2004, 12, 941.	1.7	107
188	Modeling of Photonic Crystal Fiber Raman Amplifiers. Journal of Lightwave Technology, 2004, 22, 1707-1713.	2.7	26
189	Overview on finite-element time-domain approaches for optical propagation analysis. Optical and Quantum Electronics, 2003, 35, 1005-1023.	1.5	6
190	Amplification properties of Er/sub 3+/ -doped photonic crystal fibers. Journal of Lightwave Technology, 2003, 21, 782-788.	2.7	64
191	Study of raman amplification properties in triangular photonic crystal fibers. Journal of Lightwave Technology, 2003, 21, 2247-2254.	2.7	37
192	Characterization of microstructured optical fibers for wideband dispersion compensation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 1958.	0.8	75
193	Mesh Truncation in Finite Element Modal Analysis of Dielectric Waveguides. Electromagnetics, 2002, 22, 331-343.	0.3	2
194	Leakage properties of photonic crystal fibers. Optics Express, 2002, 10, 1314.	1.7	135
195	Perturbation analysis of dispersion properties in photonic crystal fibers through the finite element method. Journal of Lightwave Technology, 2002, 20, 1433-1442.	2.7	54
196	Holey fiber analysis through the finite-element method. IEEE Photonics Technology Letters, 2002, 14, 1530-1532.	1.3	134
197	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
198	Complex FEM modal solver of optical waveguides with PML boundary conditions. Optical and Quantum Electronics, 2001, 33, 359-371.	1.5	163

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199	Three-dimensional finite-element beam propagation method: assessments and developments. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2000, 17, 1124.	0.8	20
200	Open Waveguide Boundary Conditions for Finite Element Modal Analysis. , 2000, , .		2
201	Anisotropic and magneto-optic waveguide numerical analysis. , 2000, , .		0
202	Active nonlinear integrated optical devices: a numerical analysis. Optical and Quantum Electronics, 1999, 31, 1073-1084.	1.5	2
203	Perfectly matched anisotropic layers for optical waveguide analysis through the finite-element beam-propagation method. Microwave and Optical Technology Letters, 1999, 23, 67-69.	0.9	30
204	Nonlinear finite-element semivectorial propagation method for three-dimensional optical waveguides. IEEE Photonics Technology Letters, 1999, 11, 209-211.	1.3	10
205	Finite element method resolution of non-linear Helmholtz equation. Optical and Quantum Electronics, 1998, 30, 457-465.	1.5	6
206	Numerical and experimental analysis of erbium-doped fiber linear cavity lasers. Optics Communications, 1998, 156, 264-270.	1.0	29
207	Modeling of erbium doped fiber ring laser. Optics Communications, 1997, 141, 21-24.	1.0	21
208	Photonic crystal fibers: perturbation analysis of polarization and dispersion properties. , 0, , .		3
209	Raman gain coefficient of solid-core honeycomb photonic crystal fibers. , 0, , .		1
210	Impact of background losses on photonic crystal fiber Raman amplifier. , 0, , .		1
211	Photonic crystal fiber based polarization splitter. , 0, , .		1
212	Wide bandgap air-guiding modified honeycomb photonic crystal fibers. , 0, , .		3
213	Polarization selective coupling in three-core holey fibers. , 0, , .		0
214	Cutoff properties of large-mode-area photonic crystal fibers. , 0, , .		2
215	Bending influence on depressed-cladding EDFA gain spectrum. , 0, , .		2
216	Air-guiding photonic crystal fibers with modified honeycomb lattice. , 0, , .		7