

John Ballato

List of Publications by Year in descending order

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234
papers

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61984

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all docs

239
docs citations

239
times ranked

5212
citing authors

#	ARTICLE	IF	CITATIONS
1	The uniqueness of glass for passive thermal management for optical fibers. International Journal of Applied Glass Science, 2022, 13, 267-280.	2.0	6
2	A Novel Route to Fibers with Incongruent and Volatile Crystalline Semiconductor Cores: GaAs. ACS Photonics, 2022, 9, 1058-1064.	6.6	11
3	Anti-Stokes cooling and other thermal managements techniques in fiber lasers and amplifiers. , 2022, , .		0
4	Optical characterization of disordered Yb-doped silica glass Anderson localizing optical fiber. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1272.	2.1	0
5	Raman enhanced four-wave mixing in silicon core fibers. Optics Letters, 2022, 47, 1626.	3.3	10
6	Anti-Stokes fluorescence cooling of nanoparticle-doped silica fibers. Optics Letters, 2022, 47, 2590.	3.3	8
7	Localised structuring of metal-semiconductor cores in silica clad fibres using laser-driven thermal gradients. Nature Communications, 2022, 13, 2680.	12.8	9
8	3D Laser Engineering of Molten Core Optical Fibers: Toward a New Generation of Harsh Environment Sensing Devices. Advanced Optical Materials, 2022, 10, .	7.3	13
9	All-fibre heterogeneously-integrated frequency comb generation using silicon core fibre. Nature Communications, 2022, 13, .	12.8	21
10	Four-Wave Mixing-Based Wavelength Conversion and Parametric Amplification in Submicron Silicon Core Fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11.	2.9	22
11	Glass: The carrier of lightâ€™Part IIâ€™A brief look into the future of optical fiber. International Journal of Applied Glass Science, 2021, 12, 3-24.	2.0	20
12	Stimulated Raman Scattering in a Tapered Submicron Silicon Core Fiber. , 2021, , .		0
13	All-optical high-speed modulation of THz transmission through silicon core optical fibers. Optics Express, 2021, 29, 3543.	3.4	14
14	Semiconductor core fibres: materials science in a bottle. Nature Communications, 2021, 12, 3990.	12.8	24
15	Thermal Stability of Type II Modifications by IR Femtosecond Laser in Highly-Doped Aluminosilicate Glass Optical Fibers. , 2021, , .		0
16	Laser sintering and influence of the Dy concentration on BaAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ persistent luminescence ceramics. Journal of the European Ceramic Society, 2021, 41, 3629-3634.	5.7	9
17	Radiation-balanced silica fiber laser. Optica, 2021, 8, 830.	9.3	27
18	Core opportunities for future optical fibers. JPhys Photonics, 2021, 3, 041001.	4.6	3

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19	Concentration quenching and clustering effects in Er:YAG-derived all-glass optical fiber. Optical Materials Express, 2021, 11, 3587.	3.0	5
20	Continuous-wave Raman amplification in silicon core fibers pumped in the telecom band. APL Photonics, 2021, 6, .	5.7	16
21	Kilowatt power scaling of an intrinsically low Brillouin and thermo-optic Yb-doped silica fiber [Invited]. Journal of the Optical Society of America B: Optical Physics, 2021, 38, F38.	2.1	11
22	On the origin of photodarkening resistance in Yb-doped silica fibers with high aluminum concentration. Optical Materials Express, 2021, 11, 115.	3.0	9
23	Parametric frequency comb generation using silicon core fiber. , 2021, , .		0
24	Reduced quantum defect in a Yb-doped fiber laser by balanced dual-wavelength excitation. Applied Physics Letters, 2021, 119, .	3.3	8
25	All-optically-driven and All-optical-fiber Vacuum Gauge via Ytterbium-doped Optical Fiber Microheater. , 2021, , .		0
26	Review of a Decade of Research on Disordered Anderson Localizing Optical Fibers. Frontiers in Physics, 2021, 9, .	2.1	4
27	Stokes and anti-Stokes pumped Yb-doped fiber lasers. , 2021, , .		0
28	Power Scaling of Diffraction-Limited, Narrow-Linewidth Fiber Lasers to Beyond 10 kW. , 2020, , .		0
29	Sellmeier circuits: A unifying view on optical and plasma dispersion fitting formulas. Journal of Applied Physics, 2020, 128, .	2.5	1
30	Robinsonâ€™s Martin: Relating the 4Å ³ m and 6mm nonlinear piezoelectric tensors. AIP Advances, 2020, 10, 095321.	1.3	1
31	Phase separation and transformation of binary immiscible systems in molten core-derived optical fibers. MRS Communications, 2020, 10, 298-304.	1.8	5
32	All optical fiber thermal vacuum gauge. JPhys Photonics, 2020, 2, 014006.	4.6	2
33	Effect of the Ce ³⁺ concentration on laser-sintered YAG ceramics for white LEDs applications. Journal of the European Ceramic Society, 2020, 40, 3673-3678.	5.7	33
34	Designing silicon-core fiber tapers for efficient supercontinuum generation in the greenhouse gas absorption region. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1698.	2.1	1
35	Random lasing from optical fibers with phase separated glass cores. Optics Express, 2020, 28, 22049.	3.4	12
36	Laser cooling in a silica optical fiber at atmospheric pressure. Optics Letters, 2020, 45, 1092.	3.3	43

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37	Observation of optical nonlinearities in an all-solid transverse Anderson localizing optical fiber. Optics Letters, 2020, 45, 599.	3.3	7
38	Experimental comparison of silica fibers for laser cooling. Optics Letters, 2020, 45, 4020.	3.3	28
39	CO ₂ laser annealed SiGe core optical fibers with radial Ge concentration gradients. Optical Materials Express, 2020, 10, 926.	3.0	16
40	Thermo-optic coefficient of B ₂ O ₃ and GeO ₂ co-doped silica fibers. Optical Materials Express, 2020, 10, 1509.	3.0	11
41	Broadband infrared and THz transmitting silicon core optical fiber. Optical Materials Express, 2020, 10, 2491.	3.0	13
42	On the morphologies of oxides particles in optical fibers: Effect of the drawing tension and composition. Optical Materials, 2019, 87, 74-79.	3.6	20
43	Investigation of the structural environment and chemical bonding of fluorine in Yb-doped fluorosilicate glass optical fibres. Journal of Chemical Thermodynamics, 2019, 128, 119-126.	2.0	11
44	Overview of high temperature fibre Bragg gratings and potential improvement using highly doped aluminosilicate glass optical fibres. JPhys Photonics, 2019, 1, 042001.	4.6	22
45	Optical Fiber Materials: feature introduction. Optical Materials Express, 2019, 9, 3565.	3.0	1
46	ALPO ₄ in Silica Glass Optical Fibers: Deduction of Additional Material Properties. IEEE Photonics Journal, 2019, 11, 1-13.	2.0	5
47	Insights and Aspects to the Modeling of the Molten Core Method for Optical Fiber Fabrication. Materials, 2019, 12, 2898.	2.9	16
48	Disordered Anderson Localization Optical Fibers for Image Transport – A Review. Journal of Lightwave Technology, 2019, 37, 5652-5659.	4.6	20
49	Net optical parametric gain in a submicron silicon core fiber pumped in the telecom band. APL Photonics, 2019, 4, .	5.7	20
50	Fiber Integrated Wavelength Converter Based on a Silicon Core Fiber With a Nano-Spike Coupler. IEEE Photonics Technology Letters, 2019, 31, 1561-1564.	2.5	10
51	Laser restructuring and photoluminescence of glass-clad GaSb/Si-core optical fibres. Nature Communications, 2019, 10, 1790.	12.8	27
52	Novel reactive molten core fabrication employing in-situ metal oxidation: Erbium-doped intrinsically low Brillouin scattering optical fiber. Optical Materials: X, 2019, 1, 100009.	0.8	2
53	Study of La-doped barium titanate ceramics obtained by laser sintering technique. Journal of Electroceramics, 2019, 42, 98-103.	2.0	5
54	Structural, microstructural, and luminescent properties of laser-sintered Eu-doped YAG ceramics. Optical Materials, 2019, 89, 334-339.	3.6	13

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55	A Materials Approach Toward the Mitigation of Nonlinearities in Glass Optical Fibers. , 2019, , .		1
56	Low-loss silicon core fibre platform for mid-infrared nonlinear photonics. Light: Science and Applications, 2019, 8, 105.	16.6	36
57	Observation and practical implications of nano-scale phase separation in aluminosilicate glass optical fibers. Journal of the American Ceramic Society, 2019, 102, 879-883.	3.8	11
58	Laser sintering and photoluminescence study of Tb-doped yttrium aluminum garnet ceramics. Ceramics International, 2019, 45, 3797-3802.	4.8	13
59	Nonlinear optical properties of polycrystalline silicon core fibers from telecom wavelengths into the mid-infrared spectral region. Optical Materials Express, 2019, 9, 1271.	3.0	23
60	Calcium silicate and fluorosilicate optical fibers for high energy laser applications. Optical Materials Express, 2019, 9, 2147.	3.0	6
61	Advances in the fabrication of disordered transverse Anderson localizing optical fibers [Invited]. Optical Materials Express, 2019, 9, 2769.	3.0	8
62	Ge-capped SiGe core optical fibers. Optical Materials Express, 2019, 9, 4301.	3.0	13
63	Materials Development for Advanced Optical Fiber Sensors and Lasers. , 2019, , 1301-1333.		0
64	Athermal Optical Fibers for Sensing Applications. , 2019, , .		1
65	Materials Development for Advanced Optical Fiber Sensors and Lasers. , 2018, , 1-33.		0
66	A unified materials approach to mitigating optical nonlinearities in optical fiber. III. Canonical examples and materials road map. International Journal of Applied Glass Science, 2018, 9, 447-470.	2.0	24
67	The linear and nonlinear refractive index of amorphous Al ₂ O ₃ deduced from aluminosilicate optical fibers. International Journal of Applied Glass Science, 2018, 9, 421-427.	2.0	11
68	Oxyfluoride Core Silica-Based Optical Fiber With Intrinsically Low Nonlinearities for High Energy Laser Applications. Journal of Lightwave Technology, 2018, 36, 284-291.	4.6	12
69	Wavelength Conversion and Supercontinuum Generation in Silicon Optical Fibers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9.	2.9	35
70	A unified materials approach to mitigating optical nonlinearities in optical fiber. II. A. Material additivity models and basic glass properties. International Journal of Applied Glass Science, 2018, 9, 278-287.	2.0	26
71	A unified materials approach to mitigating optical nonlinearities in optical fiber. <sc>II</sc>. B. The optical fiber, material additivity and the nonlinear coefficients. International Journal of Applied Glass Science, 2018, 9, 307-318.	2.0	25
72	A unified materials approach to mitigating optical nonlinearities in optical fiber. I. Thermodynamics of optical scattering. International Journal of Applied Glass Science, 2018, 9, 263-277.	2.0	23

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73	Characterisation of silicon fibre Bragg grating in near-infrared band for strain and temperature sensing. Electronics Letters, 2018, 54, 1393-1395.	1.0	9
74	Optimizing thermal conduction in bulk polycrystalline SrTiO ₃ ceramics via oxygen non-stoichiometry. MRS Communications, 2018, 8, 1470-1476.	1.8	9
75	Perspective: Molten core optical fiber fabrication—A route to new materials and applications. APL Photonics, 2018, 3, 120903.	5.7	64
76	A Brief Review of Specialty Optical Fibers for Brillouin-Scattering-Based Distributed Sensors. Applied Sciences (Switzerland), 2018, 8, 1996.	2.5	20
77	Materials for optical fiber lasers: A review. Applied Physics Reviews, 2018, 5, .	11.3	131
78	A nano shell game. Nature Photonics, 2018, 12, 501-502.	31.4	0
79	Less than 1% quantum defect fiber lasers via ytterbium-doped multicomponent fluorosilicate optical fiber. Optics Letters, 2018, 43, 3096.	3.3	31
80	Ytterbium-doped multicomponent fluorosilicate optical fibers with intrinsically low optical nonlinearities. Optical Materials Express, 2018, 8, 744.	3.0	16
81	Crystalline GaSb-core optical fibers with room-temperature photoluminescence. Optical Materials Express, 2018, 8, 1435.	3.0	17
82	Molten core fabrication of bismuth germanium oxide Bi ₄ Ge ₃ O ₁₂ crystalline core fibers. Journal of the American Ceramic Society, 2018, 101, 4340-4349.	3.8	9
83	Reduced loss in SiGe-core optical fibers. , 2018, , .		1
84	Low Quantum Defect Fiber Lasers via Yb-Doped Multicomponent Fluorosilicate Optical Fiber. , 2018, , .		3
85	Fiber integrated silicon photonics. , 2018, , .		0
86	Tailoring the Thermo-Optic Coefficient in Silica Optical Fibers. , 2018, , .		2
87	Future of Semiconductor-core Optical Fibers. , 2018, , .		0
88	Fiber-draw-induced elongation and breakup of particles inside the core of a silica-based optical fiber. Journal of the American Ceramic Society, 2017, 100, 1814-1819.	3.8	38
89	Use of thulium-doped LaF ₃ nanoparticles to lower the phonon energy of the thulium's environment in silica-based optical fibres. Optical Materials, 2017, 68, 24-28.	3.6	39
90	Random lasing in an Anderson localizing optical fiber. Light: Science and Applications, 2017, 6, e17041-e17041.	16.6	83

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91	Deduced elasticity of sp ³ -bonded amorphous diamond. Applied Physics Letters, 2017, 111, .	3.3	7
92	Laser sintering of persistent luminescent CaAl ₂ O ₄ :Eu ²⁺ +Dy ³⁺ ceramics. Optical Materials, 2017, 68, 2-6.	3.6	27
93	Specialty optical fiber materials and fabrication techniques for lasers. , 2017, , .		0
94	Nanoparticle doping for high power fiber lasers at eye-safer wavelengths. Optics Express, 2017, 25, 13903.	3.4	59
95	Tapered silicon core fibers with nano-spikes for optical coupling via spliced silica fibers. Optics Express, 2017, 25, 24157.	3.4	44
96	Additivity of the coefficient of thermal expansion in silicate optical fibers. Optics Letters, 2017, 42, 3650.	3.3	40
97	Laser structuring, stress modification and Bragg grating inscription in silicon-core glass fibers. Optical Materials Express, 2017, 7, 1589.	3.0	43
98	On the thermo-optic coefficient of P ₂ O ₅ in SiO ₂ . Optical Materials Express, 2017, 7, 3654.	3.0	19
99	Highly nonlinear yttrium-aluminosilicate optical fiber with a high intrinsic stimulated Brillouin scattering threshold. Optics Letters, 2017, 42, 4849.	3.3	14
100	Glass and Process Development for the Next Generation of Optical Fibers: A Review. Fibers, 2017, 5, 11.	4.0	50
101	Silicon fibre nano-spike for robust coupling to silica fibres. , 2017, , .		2
102	On the Anomalously Strong Dependence of the Acoustic Velocity of Alumina on Temperature in Aluminosilicate Glass Optical Fibers—Part I: Acoustic Properties of Alumina and Silica Polymorphs, and Approximations of the Glassy State. International Journal of Applied Glass Science, 2016, 7, 11-26.	2.0	7
103	Temperature-Dependence of Multiphonon Relaxation of Rare-Earth Ions in Solid-State Hosts. Journal of Physical Chemistry C, 2016, 120, 9958-9964.	3.1	45
104	On the Anomalously Strong Dependence of the Acoustic Velocity of Alumina on Temperature in Aluminosilicate Glass Optical Fibers—Part I: Material Modeling and Experimental Validation. International Journal of Applied Glass Science, 2016, 7, 3-10.	2.0	11
105	CO ₂ Laser-Induced Directional Recrystallization to Produce Single Crystal Silicon-Core Optical Fibers with Low Loss. Advanced Optical Materials, 2016, 4, 1004-1008.	7.3	87
106	Laser recrystallization and inscription of compositional microstructures in crystalline SiGe-core fibres. Nature Communications, 2016, 7, 13265.	12.8	91
107	Glass: The Carrier of Light —A Brief History of Optical Fiber. International Journal of Applied Glass Science, 2016, 7, 413-422.	2.0	28
108	Effects of Sintering Temperature on Open-Volume Defects and Thermoluminescence of Yttria and Lutetia Ceramics. Journal of the American Ceramic Society, 2016, 99, 1449-1454.	3.8	4

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109	Translucent and persistent luminescent SrAl ₂ O ₄ :Eu ²⁺ +Dy ³⁺ ceramics. <i>Ceramics International</i> , 2016, 42, 4306-4312.	4.8	35
110	Brillouin Properties of a Novel Strontium Aluminosilicate Glass Optical Fiber. <i>Journal of Lightwave Technology</i> , 2016, 34, 1435-1441.	4.6	27
111	Silicon optical fibres “past, present, and future. <i>Advances in Physics: X</i> , 2016, 1, 114-127.	4.1	38
112	Tapered polysilicon core fibers for nonlinear photonics. <i>Optics Letters</i> , 2016, 41, 1360.	3.3	51
113	Athermal distributed Brillouin sensors utilizing all-glass optical fibers fabricated from rare earth garnets: LuAG. <i>New Journal of Physics</i> , 2016, 18, 015004.	2.9	11
114	Tunable continuous wave emission via phase-matched second harmonic generation in a ZnSe microcylindrical resonator. <i>Scientific Reports</i> , 2015, 5, 11798.	3.3	16
115	Pockels Coefficients in Multicomponent Oxide Glasses. <i>International Journal of Applied Glass Science</i> , 2015, 6, 387-396.	2.0	12
116	Single- and few-moded lithium aluminosilicate optical fiber for athermal Brillouin strain sensing. <i>Optics Letters</i> , 2015, 40, 5030.	3.3	25
117	Infrared Spectroscopic Characterization of Photoluminescent Polymer Nanocomposites. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-9.	1.3	33
118	Rethinking optical fiber. , 2015, , .		0
119	Investigation of Er-doped Sc ₂ O ₃ transparent ceramics by positron annihilation spectroscopy. <i>Journal of Materials Science</i> , 2015, 50, 3183-3188.	3.7	16
120	Type I and II Bragg gratings made with infrared femtosecond radiation in high and low alumina content aluminosilicate optical fibers. <i>Optica</i> , 2015, 2, 313.	9.3	38
121	Kerr nonlinear switching in a hybrid silica-silicon microspherical resonator. <i>Optics Express</i> , 2015, 23, 17263.	3.4	32
122	Infrared fibers. <i>Advances in Optics and Photonics</i> , 2015, 7, 379.	25.5	274
123	Light trapping in horizontally aligned silicon microwire solar cells. <i>Optics Express</i> , 2015, 23, A1463.	3.4	22
124	Materials Development for Next Generation Optical Fiber. <i>Materials</i> , 2014, 7, 4411-4430.	2.9	48
125	Transverse Anderson Localization in Disordered Glass Optical Fibers: A Review. <i>Materials</i> , 2014, 7, 5520-5527.	2.9	9
126	Novel Brillouin- and Raman-suppressing optical fibers. , 2014, , .		0

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127	Anderson localisation in fibres. , 2014, , .		1
128	Compositional tuning of glass for the suppression of nonlinear and parasitic fiber laser phenomena. Proceedings of SPIE, 2014, , .	0.8	0
129	Nearâ€infrared and Upconversion Luminescence in Er:Y₂O₃ Ceramics under 1.5Âµm Excitation. Journal of the American Ceramic Society, 2014, 97, 2105-2110.	3.8	35
130	Four-wave mixing and octave-spanning supercontinuum generation in a small core hydrogenated amorphous silicon fiber pumped in the mid-infrared. Optics Letters, 2014, 39, 5721.	3.3	42
131	Brillouin scattering properties of lanthanoâ€aluminosilicate optical fiber. Applied Optics, 2014, 53, 5660.	1.8	24
132	Image transport through a disordered optical fibre mediated by transverse Anderson localization. Nature Communications, 2014, 5, 3362.	12.8	118
133	Correlation between native As ₂ Se ₃ preform purity and glass optical fiber mechanical strength. Materials Research Bulletin, 2014, 49, 250-258.	5.2	8
134	Bulk fabrication and properties of solar grade silicon microwires. APL Materials, 2014, 2, 116108.	5.1	13
135	The effects of thermal processing on the luminescence of Y ₂ O ₃ :Tm transparent ceramic. , 2014, , .		0
136	Silicon-core glass fibres as microwire radial-junction solar cells. Scientific Reports, 2014, 4, 6283.	3.3	52
137	120 Years of Optical Glass Science. Optics and Photonics News, 2014, 25, 44.	0.5	13
138	Rethinking Optical Fiber: New Demands, Old Glasses. Journal of the American Ceramic Society, 2013, 96, 2675-2692.	3.8	99
139	Mid-infrared Raman sources using spontaneous Raman scattering in germanium core optical fibers. Applied Physics Letters, 2013, 102, .	3.3	18
140	Chirped rectilinear core longitudinally-graded optical fibers. Optical Fiber Technology, 2013, 19, 432-436.	2.7	1
141	The Brillouin gain coefficient of Yb-doped aluminosilicate glass optical fibers. Optical Materials, 2013, 35, 1627-1632.	3.6	27
142	Brillouin spectroscopy of a novel baria-doped silica glass optical fiber. Optics Express, 2013, 21, 10924.	3.4	48
143	Nonlinear transmission properties of hydrogenated amorphous silicon core fibers towards the mid-infrared regime. Optics Express, 2013, 21, 13075.	3.4	37
144	Spinel-derived single mode optical fiber. Optical Materials Express, 2013, 3, 511.	3.0	28

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145	Pockels's coefficients of alumina in aluminosilicate optical fiber. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 244.	2.1	43
146	Characterisation of Raman gain spectra in Yb:YAG-derived optical fibres. Electronics Letters, 2013, 49, 895-897.	1.0	33
147	Optimized statically non-wetting hydrophobic electrospun surface of perfluorocyclobutyl aryl ether polymer. Polymer International, 2013, 62, 1152-1158.	3.1	9
148	Germanium microsphere high-Q resonator. Optics Letters, 2012, 37, 728.	3.3	45
149	Linkage of oxygen deficiency defects and rare earth concentrations in silica glass optical fiber probed by ultraviolet absorption and laser excitation spectroscopy. Optics Express, 2012, 20, 14494.	3.4	21
150	Reactive molten core fabrication of glass-clad amorphous and crystalline oxide optical fibers. Optical Materials Express, 2012, 2, 153.	3.0	25
151	Transverse Anderson localization in a disordered glass optical fiber. Optical Materials Express, 2012, 2, 1496.	3.0	80
152	On loss in silicon core optical fibers. Optical Materials Express, 2012, 2, 1511.	3.0	29
153	Spectral engineering of optical fiber preforms through active nanoparticle doping. Optical Materials Express, 2012, 2, 1520.	3.0	19
154	Mass density and the Brillouin spectroscopy of aluminosilicate optical fibers. Optical Materials Express, 2012, 2, 1641.	3.0	31
155	Non-thermal oxygen-rich helium plasmas using theta shaped tubing for evaluation of plasmid DNA strand breaks. , 2012, , .		1
156	Reactive oxygen species controllable non-thermal helium plasmas for evaluation of plasmid DNA strand breaks. Applied Physics Letters, 2012, 101, .	3.3	25
157	Longitudinally-graded optical fibers. , 2012, , .		0
158	Enhanced piezoelectric performance from carbon fluoropolymer nanocomposites. Journal of Applied Physics, 2012, 112, .	2.5	40
159	Spectral engineering of LaF ₃ :Ce ³⁺ nanoparticles: The role of Ce ³⁺ in surface sites. Journal of Applied Physics, 2012, 111, .	2.5	17
160	Sapphire-derived all-glass optical fibres. Nature Photonics, 2012, 6, 627-633.	31.4	160
161	The influence of core geometry on the crystallography of silicon optical fiber. Journal of Crystal Growth, 2012, 352, 53-58.	1.5	29
162	Intense plasma emission induced by jet-to-jet coupling in atmospheric pressure plasma arrays. Applied Physics Letters, 2012, 101, .	3.3	30

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163	On crystallographic orientation in crystal core optical fibers II: Effects of tapering. Optical Materials, 2012, 35, 93-96.	3.6	24
164	Intense and Energetic Atmospheric Pressure Plasma Jet Arrays. Plasma Processes and Polymers, 2012, 9, 253-260.	3.0	81
165	Feasibility study of Yb:YAG-derived silicate fibers with large Yb content as gain media. Optical Materials, 2012, 34, 1294-1298.	3.6	39
166	Cladding Glass Development for Semiconductor Core Optical Fibers. International Journal of Applied Glass Science, 2012, 3, 144-153.	2.0	33
167	Apoptosis Experiments of Cultured Tumor Cells Treated With 200- μm -Sized Flexible Microplasma Jet. IEEE Transactions on Plasma Science, 2011, 39, 2974-2975.	1.3	6
168	Novel Visible Light Emitting Optical Fibers Using Up-Conversion. Journal of Display Technology, 2011, 7, 295-300.	1.2	1
169	All-optical modulation using two-photon absorption in silicon core optical fibers. Optics Express, 2011, 19, 19078.	3.4	51
170	Silica-clad crystalline germanium core optical fibers. Optics Letters, 2011, 36, 687.	3.3	50
171	Reactive molten core fabrication of silicon optical fiber. Optical Materials Express, 2011, 1, 1141.	3.0	48
172	Multiphonon-based comparison of erbium-doped yttria in large, fine grain polycrystalline ceramics and precursor forms. Optical Materials, 2011, 34, 95-98.	3.6	1
173	Apoptosis of lung carcinoma cells induced by a flexible optical fiber-based cold microplasma. Biosensors and Bioelectronics, 2011, 28, 333-338.	10.1	133
174	Atmospheric-Pressure Microplasma Jets From Linear Arrays of Hollow-Core Optical Fibers for Biomedical Applications. IEEE Transactions on Plasma Science, 2011, 39, 2958-2959.	1.3	6
175	Fabrication and characterization of GaP/polymer nanocomposites for advanced light emissive device structures. Journal of Nanoparticle Research, 2011, 13, 5565-5570.	1.9	8
176	Cancer Therapy: Single-Cell-Level Microplasma Cancer Therapy (Small 16/2011). Small, 2011, 7, 2290-2290.	10.0	1
177	Scintillation of rare earth doped fluoride nanoparticles. Applied Physics Letters, 2011, 99, .	3.3	15
178	Annealing of silicon optical fibers. Journal of Applied Physics, 2011, 110, .	2.5	41
179	The Influence of Synthesis Parameters on Particle Size and Photoluminescence Characteristics of Ligand Capped Tb ³⁺ :LaF ₃ . Polymers, 2011, 3, 2039-2052.	4.5	12
180	Advances in semiconductor core optical fiber. , 2011, , .		0

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181	Semiconductor Core Optical Fibers. IEEE Photonics Journal, 2011, 3, 259-262.	2.0	3
182	Evolution of Optical and Mechanical Properties of Semiconductors over 40 Years. Journal of Electronic Materials, 2010, 39, 635-641.	2.2	9
183	On crystallographic orientation in crystal core optical fibers. Optical Materials, 2010, 32, 862-867.	3.6	31
184	Single-Cell-Level Cancer Therapy Using a Hollow Optical Fiber-Based Microplasma. Small, 2010, 6, 1474-1478.	10.0	46
185	Synthesis, Processing, and Properties of Submicrometer-Grained Highly Transparent Yttria Ceramics. Journal of the American Ceramic Society, 2010, 93, 1320-1325.	3.8	74
186	Submicrometer Grain-Sized Transparent Erbium-Doped Scandia Ceramics. Journal of the American Ceramic Society, 2010, 93, 3657-3662.	3.8	54
187	Advancements in semiconductor core optical fiber. Optical Fiber Technology, 2010, 16, 399-408.	2.7	102
188	An analysis of coupling between a whispering gallery mode laser in an elliptical microring and the dominant mode in the coaxially oriented elliptical optical fiber. Journal of Applied Physics, 2010, 107, 023104.	2.5	2
189	Scintillation of nanoparticles: Case study of rare earth doped fluorides. , 2010, , .		0
190	Toward a photoconducting semiconductor RF optical fiber antenna array. Applied Optics, 2010, 49, 5163.	2.1	13
191	Binary III-V semiconductor core optical fiber. Optics Express, 2010, 18, 4972.	3.4	86
192	Brillouin spectroscopy of YAG-derived optical fibers. Optics Express, 2010, 18, 10055.	3.4	75
193	Nonlinear transmission properties of hydrogenated amorphous silicon core optical fibers. Optics Express, 2010, 18, 16826.	3.4	65
194	Hydrothermal Growth and Thermal Property Characterization of ThO ₂ Single Crystals. Crystal Growth and Design, 2010, 10, 2146-2151.	3.0	59
195	Preparation and Characterization of Rare Earth Doped Fluoride Nanoparticles. Materials, 2010, 3, 2053-2068.	2.9	47
196	On the fabrication of all-glass optical fibers from crystals. Journal of Applied Physics, 2009, 105, .	2.5	86
197	Evolution of Luminescence from Doped Gallium Phosphide over 40 Years. Journal of Electronic Materials, 2009, 38, 640-646.	2.2	19
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