Seongwoo Yoo

List of Publications by Year
in descending order

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Version: 2024-02-01

160 papers	1,857 citations	257450 24 h-index	315739 38 g-index
160 all docs	160 docs citations	160 times ranked	1177 citing authors

#	Article	IF	Citations
1	All-solid antiresonant fiber design for high-efficiency three-level lasing in ytterbium-doped fiber lasers. Optics Letters, 2022, 47, 1045.	3.3	6
2	Integration of an anti-resonant hollow-core fiber with a multimode Yb-doped fiber for high power near-diffraction-limited laser operation. Optics Express, 2022, 30, 7928.	3.4	9
3	Efficient 976 nm laser based on an all-solid and large-mode-area multicore Yb-doped fiber. , 2021, , .		1
4	Multimode Nested Antiresonant Hollow Core Fiber. Journal of Lightwave Technology, 2021, 39, 6592-6598.	4.6	12
5	Power stable 1.5â€“10.5â€‰â€‰Âµm cascaded mid-infrared supercontinuum laser without thulium amplifier. Optics Letters, 2021, 46, 1129.	3.3	35
6	Hybrid daylight harvesting system using static ball lens concentrator and movable optical fiber. Solar Energy, 2021, 216, 121-132.	6.1	7
7	Large-mode-area multicore Yb-doped fiber for an efficient high power 976 nm laser. Optics Express, 2021, 29, 21992.	3.4	9
8	Temperature-Insensitive Mechanical Sensor Using Multi-Modal Behavior of Antiresonant Hollow-Core Fibers. Journal of Lightwave Technology, 2021, 39, 3998-4005.	4.6	14
9	W-type normal dispersion thulium-doped fiber-based high-energy all-fiber femtosecond laser at 1.7â€‰â€‰Âµm. Optics Letters, 2021, 46, 3637.	3.3	12
10	Anti-resonant hollow-core fiber fusion spliced to laser gain fiber for high-power beam delivery. Optics Letters, 2021, 46, 4374.	3.3	20
11	All-fiber High-energy 174 fs Laser at 1.78 Î¼m using parabolic W-type Normal Dispersion Thulium-doped Fiber. , 2021, , .		0
12	1725nm all-fiber SWIR CW laser using W-type Tm:Ge doped fiber. , 2021, , .		0
13	Selective Excitation of Fundamental Mode in Fusion Spliced Antiresonant Hollow-Core Fiber. , 2021, , .		1
14	Coreless Fiberâ€Based Whisperingâ€Galleryâ€Mode Assisted Lasing from Colloidal Quantum Well Solids. Advanced Functional Materials, 2020, 30, 1907417.	14.9	31
15	Short-wave IR ultrafast fiber laser systems: Current challenges and prospective applications. Journal of Applied Physics, 2020, 128, .	2.5	29
16	Evolution from Periodic Intensity Modulations to Dissipative Vector Solitons in A Single-Mode Fiber Laser. Photonics, 2020, 7, 103.	2.0	1
17	Mode Selection in Large-Mode-Area Step-Index Multicore Fiber Laser and Amplifier. IEEE Photonics Technology Letters, 2020, 32, 722-725.	2.5	8
18	Investigation of Thermal Loads for Transverse Mode Instability in Ytterbium-Doped Large Mode Area Fibers. Journal of Lightwave Technology, 2020, 38, 4478-4489.	4.6	6

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19	Investigation of Core Compositions for Efficient 976 nm Lasing From Step Index Large-Mode-Area Fiber. IEEE Photonics Technology Letters, 2020, 32, 1457-1460.	2.5	2
20	Reconfigurable multiwavelength fiber laser based on multimode interference in highly germanium-doped fiber. Applied Optics, 2020, 59, 1163.	1.8	6
21	High-energy Pulse Generation at 1.76 Î¼m from All-fiber Laser Configuration using Normal Dispersion Thulium-doped Fiber. , 2020, , .		1
22	All-fiber short-wavelength tunable mode-locked fiber laser using normal dispersion thulium-doped fiber. Optics Express, 2020, 28, 17570.	3.4	33
23	Ultra-low NA step-index large mode area Yb-doped fiber with a germanium doped cladding for high power pulse amplification. Optics Letters, 2020, 45, 3828.	3.3	21
24	Femtosecond Bragg grating inscription in an Yb-doped large-mode-area multicore fiber for high-power laser applications. Optics Letters, 2020, 45, 4563.	3.3	12
25	Influence of pulse duration and repetition rate on mid-infrared cascaded supercontinuum. Optics Letters, 2020, 45, 5161.	3.3	4
26	High absorption large-mode area step-index fiber for tandem-pumped high-brightness high-power lasers. Photonics Research, 2020, 8, 1599.	7.0	29
27	Yb-doped Large Mode Area Multicore Fiber Laser with a Fs-inscribed Fiber Bragg Grating. , 2020, , .		0
28	Simultaneous Strain and Force Sensing in an Antiresonant Fiber Featuring Enhanced Modal Interference. , 2020, , .		0
29	Photodarkening Suppressed Low Loss Yb:Al:P Doped Fiber by All Solution Doping Technique. , 2020, , .		0
30	Long Wavelength Mid-Infrared Supercontinuum Source. , 2020, , .		0
31	All-Fiber CPA Toward High Peak Power fs Pulses at 1875nm Using Normal Dispersion Tm Fiber. , 2020, , .		0
32	Low NA Ge-Clad Step-Index Yb-Doped Fiber for High Power Picosecond Laser Pulses. , 2020, , .		0
33	All-fiber Short-wavelength Mode-locked Fiber Laser and Amplifier Using Normal Dispersion Thulium-doped Fiber. , 2020, , .		0
34	Suppression of Transverse Mode Instability in Ring-core Fiber. , 2020, , .		2
35	Toward high peak power ultrashort pulses using normal dispersion thulium fiber in all-fiber amplifier and compressor. , 2020, , .		1
36	Enhanced modal interference in negative curvature fiber for sensing applications. , 2020, , .		1

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37	Multiple hollow-core anti-resonant fiber as a supermodal fiber interferometer. Scientific Reports, 2019, 9, 9342.	3.3	10
38	High Energy Ultrafast Laser at 2 Î¼m Using Dispersion Engineered Thulium-Doped Fiber. IEEE Photonics Journal, 2019, 11, 1-12.	2.0	5
39	Tunable Mode-Locked Fiber Laser in 1750â€“1870nm by Bending Normal Dispersion Thulium-Doped Fiber as a Distribution Filter. , 2019, , .		0
40	Photo Darkening Suppression in Highly Yb-Doped Aluminophosphosilicate Fiber by Addition of Cerium. , 2019, , .		0
41	Scaling power, bandwidth, and efficiency of mid-infrared supercontinuum source based on a GeO₂-doped silica fiber. Journal of the Optical Society of America B: Optical Physics, 2019, 36, A86.	2.1	23
42	Observation of incoherently coupled dark-bright vector solitons in single-mode fibers. Optics Express, 2019, 27, 18311.	3.4	19
43	Ultra-short wavelength operation of thulium-doped fiber amplifiers and lasers. Optics Express, 2019, 27, 36699.	3.4	35
44	16 W Large-mode-area Multi-core Q-switched Fiber Laser. , 2019, , .		0
45	High Absorption Low NA Step Index Large-Mode-Area Fiber for High Power Ultrafast Lasers. , 2019, , .		0
46	Ultra flat mid-infrared supercontinuum source based on concatenation of Thulium and Germania doped silica fibers. , 2019, , .		0
47	All-Fiber 2 Î¼m Amplifier Using a Normal Dispersion Thulium Fiber. , 2019, , .		0
48	Scaling power and bandwidth of mid-infrared supercontinuum source based on a GeO2 doped silica fiber. , 2019, , .		0
49	Multiple-Hollow-Core Anti-resonant Fiber. , 2018, , .		0
50	Large-mode-area Multicore Fiber Amplifier at 1070 nm. , 2018, , .		1
51	Birefringent Bragg Grating in C-Shaped Optical Fiber as a Temperature-Insensitive Refractometer. Sensors, 2018, 18, 3285.	3.8	14
52	A Method to Process Hollow-Core Anti-Resonant Fibers into Fiber Filters. Fibers, 2018, 6, 89.	4.0	20
53	Editorial: HPLSE special issue on fibres for high-power lasers. High Power Laser Science and Engineering, 2018, 6, .	4.6	0
54	Ultra-Short Wavelength Operation of Thulium-Doped Fibre Amplifier in the 1628â€“1655nm Waveband. , 2018, , .		0

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55	Multimode-pumped Raman amplification of a higher order mode in a large mode area fiber. Optics Express, 2018, 26, 23295.	3.4	12
56	Large-mode-area Fiber with Non-circular Cores. , 2018, , .		0
57	115â€‰â€‰W fiber laser with an all solid-structure and a large-mode-area multicore fiber. Optics Letters, 2018, 43, 3369.	3.3	26
58	Bendable large-mode-area fiber with a non-circular core. Applied Optics, 2018, 57, 6388.	1.8	4
59	Ultra-short wavelength operation of a thulium doped fiber laser in the 1620-1660nm wavelength band. , 2018, , .		5
60	115 W Large-mode-area Multi-core Fiber Laser with All Solid Structure. , 2018, , .		1
61	Carbon Nanoparticles as an Optical Modulator for Passively Q-switched Fiber Laser. , 2018, , .		0
62	Sensing applications of double hollow-core anti-resonant fiber based modal interferometer. , 2018, , .		2
63	An All-solid Large-mode-area Multicore Fiber Laser with A Pinhole for Mode Selection. , 2018, , .		1
64	Normal dispersion thulium fiber for ultrafast near-2 Âµm fiber laser. , 2018, , .		2
65	Fabrication of Low Loss Low-NA Highly Yb-doped Aluminophosphosilicate Fiber for High Power Fiber Lasers. , 2018, , .		3
66	Bendable large-mode-area fiber with a non-circular core: publisherâ€™s note. Applied Optics, 2018, 57, 8518.	1.8	0
67	Step-index high-absorption Yb-doped large-mode-area fiber with Ge-doped raised cladding. Optics Letters, 2018, 43, 5897.	3.3	19
68	Mode instability in a Yb-doped stretched core fiber. , 2017, , .		0
69	Optical Orbital Angular Momentum Amplifier Based on an Air-Hole Erbium-Doped Fiber. Journal of Lightwave Technology, 2017, 35, 430-436.	4.6	53
70	Dispersion measurement of optical fibers by phase retrieval from spectral interferometry. Journal of Optics (United Kingdom), 2017, 19, 055611.	2.2	6
71	Pump Wavelength Dependence of Photodarkening in Yb-Doped Fibers. Journal of Lightwave Technology, 2017, 35, 2535-2540.	4.6	11
72	High power, ultra-broadband supercontinuum source based on highly GeO₂ doped silica fiber. Proceedings of SPIE, 2017, , .	0.8	3

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73	Function of second cladding layer in hollow core tube lattice fibers. Scientific Reports, 2017, 7, 1618.	3.3	22
74	Ultra-wideband Operation of a Tunable Thulium Fibre Laser offering Tunability from 1679â€“1992 nm. , 2017, , .		2
75	Asymmetric large mode area fibres. , 2017, , .		0
76	Mode instability in ytterbium-doped non-circular fibers. Optics Express, 2017, 25, 13230.	3.4	9
77	Large mode area inverse index fiber with a graded index profile for high power single mode operation. Optics Express, 2017, 25, 21935.	3.4	2
78	Hollow-core air-gap anti-resonant fiber couplers. Optics Express, 2017, 25, 29296.	3.4	39
79	Double layer hollow core anti-resonant fiber for small core and low loss characteristics. , 2017, , .		0
80	Record power, ultra-broadband supercontinuum source based on highly GeO_2 doped silica fiber. Optics Express, 2016, 24, 26667.	3.4	46
81	Hollow core anti-resonant fiber with split cladding. Optics Express, 2016, 24, 7670.	3.4	41
82	Microstructured Inline Optical Fiber Structure for Dispersion Control and Coherent Supercontinuum Generation. IEEE Photonics Journal, 2016, 8, 1-9.	2.0	2
83	Stress-Loss Correlation and Dispersion Control in Highly GeO₂-Doped Fibers. IEEE Photonics Technology Letters, 2016, 28, 1521-1524.	2.5	7
84	Hollow core anti-resonant fibres with split cladding. Proceedings of SPIE, 2016, , .	0.8	1
85	Fabrication of 74 mol% GeO2-Doped Fibers and Mid-IR Supercontinuum Generation. , 2016, , .		3
86	Optical Orbital Angular Momentum Amplifier based on an Air-Core Erbium Doped Fiber. , 2016, , .		3
87	Highly coherent supercontinuum generation in an inline silica optical fiber structure. , 2016, , .		0
88	Mode area scalability in rectangular core fiber. , 2015, , .		4
89	1-μm Periodical grating structure on stainless steel designed by high-power nanosecond pulsed fiber lasers. , 2015, , .		0
90	Stress induced bend compensation in a large mode area fiber. , 2015, , .		0

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91	Fibre fabrications for high power laser fibres and high nonlinearity fibres. , 2015, , .		0
92	Multi-trench fiber with four gaps for improved bend performance. Applied Optics, 2015, 54, 8271.	2.1	5
93	Fiber-based technology for efficient three photon generation. , 2014, , .		0
94	Novel Design of Large-Mode-Area Rod-Type Fibers with Negative Curvature Trenches at 1 Âμm. , 2014, , .		0
95	Pump Power Depreciation by Photodarkening in Ytterbium-Doped Fibers and Amplifiers. IEEE Photonics Technology Letters, 2014, 26, 115-118.	2.5	8
96	3 % Thermal Load Measured in Tandem-pumped Ytterbium-doped Fiber Amplifier. , 2014, , .		6
97	Pump power reduction by photodarkening in Yb-doped fibres. , 2013, , .		0
98	Regenerative Er-doped Fiber Amplifier System for High-repetition-rate Optical Pulses. Journal of the Optical Society of Korea, 2013, 17, 357-361.	0.6	9
99	Specialty Doped Fibers in High Power Lasers. , 2013, , .		0
100	Q-switched neodymium-doped Y_3Al_5O_12-based silica fiber laser. Optics Letters, 2012, 37, 2181.	3.3	11
101	Characteristics of suspended-core fiber interferometer: Modal analysis. , 2012, , .		0
102	Tunable Laser in Ytterbium-Doped ${m Y}_{2}{m O}_{3}$ Nanoparticle Optical Fibers. IEEE Photonics Technology Letters, 2012, 24, 679-681.	2.5	5
103	Nano-engineered glass based optical fiber for fiber laser. , 2012, , .		0
104	Measuring photodarkening from Ytterbium-doped fiber amplifier at 1064 nm wavelength emission. , 2012, , .		0
105	Minimize quantum-defect heating in thulium-doped silica fiber amplifiers by tandem-pumping. , 2012, , .		0
106	Incorporation of Yb3+ ions in multicomponent phase-separated fibre glass preforms. Optical Materials, 2012, 34, 660-664.	3.6	20
107	Yb$_{2}$O$_{3}$ Doped Yttrium-Alumino-Silicate Nano-Particles Based LMA Optical Fibers for High-Power Fiber Lasers. Journal of Lightwave Technology, 2012, 30, 2062-2068.	4.6	19
108	Nano-Engineered Yb₂O₃ Doped Optical Fiber: Fabrication, Material Characterizations, Spectroscopic Properties and Lasing Characteristics: A Review. Science of Advanced Materials, 2012, 4, 292-321.	0.7	9

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109	5.4 W cladding-pumped Nd:YAG silica fiber laser. , 2012, , .		1
110	Optical Fiber Fabrication Using Novel Gas-Phase Deposition Technique. Journal of Lightwave Technology, 2011, 29, 912-915.	4.6	30
111	Study of Multichannel Amplification in Erbium-Doped Zirconia-Yttria- Alumino-Silicate Fiber. Journal of Lightwave Technology, 2011, 29, 2109-2115.	4.6	11
112	Compact fiber laser at L-band region using Erbium-doped Zirconia fiber. Laser Physics, 2011, 21, 176-179.	1.2	10
113	Linearly polarized ytterbium-doped fiber laser in a pedestal design with aluminosilicate inner cladding. Laser Physics Letters, 2011, 8, 453-457.	1.4	25
114	Double-pass erbium-doped zirconia fiber amplifier for wide-band and flat-gain operations. Optics and Laser Technology, 2011, 43, 1279-1281.	4.6	13
115	Polarization-maintaining ytterbium-doped fibre with an aluminosilicate inner-cladding fabricated using in-situ doping technique. , 2011, , .		0
116	Modification of Spectroscopic Properties of Bismuth Doped Silica Fiber by Post-fabrication Process and Different Fabrication Methods. , 2010, , .		0
117	Ytterbium-Doped Low-NA P-Al-Silicate Large-Mode-Area Fiber for High Power Applications. , 2010, , .		1
118	Yb2O3-doped YAG nano-crystallites in silica-based core glass matrix of optical fiber preform. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 175, 108-119.	3.5	22
119	Ytterbium-doped Y2O3 nanoparticle silica optical fibers for high power fiber lasers with suppressed photodarkening. Optics Communications, 2010, 283, 3423-3427.	2.1	39
120	Measurement of photodarkening in Yb-doped aluminosilicate fibres at elevated temperature. Electronics Letters, 2010, 46, 233.	1.0	15
121	Rare-Earth Doped Optical Fiber Fabrication Using Novel Gas Phase Deposition Technique. , 2010, , .		6
122	Analysis and optimization of acoustic speed profiles with large transverse variations for mitigation of stimulated Brillouin scattering in optical fibers. Applied Optics, 2010, 49, 1388.	2.1	21
123	Multi-watts narrow-linewidth all fiber Yb-doped laser operating at 1179 nm. Optics Express, 2010, 18, 5920.	3.4	47
124	Performance comparison of Zr-based and Bi-based erbium-doped fiber amplifiers. Optics Letters, 2010, 35, 2882.	3.3	38
125	Wideband EDFA Based on Erbium Doped Crystalline Zirconia Yttria Alumino Silicate Fiber. Journal of Lightwave Technology, 2010, 28, 2919-2924.	4.6	43
126	MCVD in-situ solution doping process for the fabrication of complex design large core rare-earth doped fibers. Journal of Non-Crystalline Solids, 2010, 356, 848-851.	3.1	63

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127	Novel fibre technology for high-power lasers. , 2010, , .		0
128	Ytterbium Doped Nano-crystalline Optical Fiber for Reduced Photodarkening. , 2010, , .		0
129	All Fiber Narrow Linewidth High Power Bismuth Doped Fiber Amplifier at 1179 nm. , 2009, , .		0
130	High power fibre lasers: Exploitation of unique properties. , 2009, , .		2
131	Influence of temperature on the post-irradiation temporal loss evolution in Yb-doped aluminosilicate fibers, photodarkened by 488 nm CW irradiation. , 2009, , .		0
132	Bismuth doped fiber laser performance on effective fiber cooling. , 2009, , .		0
133	Ytterbium doped nanostructured optical fibers for high power fiber lasers. , 2009, , .		3
134	Thermal resilience of polymer-coated double-clad fiber. , 2009, , .		0
135	Excited state absorption measurement in the 900-1250 nm wavelength range for bismuth-doped silicate fibers. Optics Letters, 2009, 34, 530.	3.3	32
136	Influence of cooling on a bismuth-doped fiber laser and amplifier performance. Applied Optics, 2009, 48, G83.	2.1	14
137	Fiber design for high-power fiber lasers. , 2009, , .		10
138	Optimized acoustic refractive index profiles for suppression of stimulated Brillouin scattering in large core fibers. , 2009, , .		2
139	Progress in high-power single frequency master oscillator power amplifier. , 2008, , .		0
140	Reply to comment on â€œPhotodarkening in Yb-doped aluminosilicate fibers induced by 488 nm irradiationâ€• Optics Letters, 2008, 33, 1217.	3.3	11
141	Bismuth doped fiber laser and study of unsaturable loss and pump induced absorption in laser performance. Optics Express, 2008, 16, 21032.	3.4	91
142	488 nm irradiation induced photodarkening study of Yb-doped aluminosilicate and phosphosilicate fibers. , 2008, , .		6
143	Fiber MOPAs with high control and high power. , 2008, , .		0
144	Bismuth-doped fiber laser at 1.16 μm. , 2008, , .		1

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145	Progress in active fibers. , 2007, , .		0
146	Photodarkening in Yb-doped aluminosilicate fibers induced by 488 nm irradiation. Optics Letters, 2007, 32, 1626.	3.3	144
147	Erbium:Ytterbium Codoped Large-Core Fiber Laser With 297-W Continuous-Wave Output Power. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 573-579.	2.9	164
148	Opportunities in high-power fiber lasers. , 2006, , .		1
149	Depressed clad hollow optical fiber with fundamental LP 01 mode cut-off. , 2006, , .		0
150	Spectral control of optical gain in a rare earth-doped optical fiber using novel triple layered structures. Optical Fiber Technology, 2006, 12, 297-304.	2.7	4
151	High power single-frequency Yb doped fiber amplifiers. , 2006, , .		1
152	Analysis of W-type waveguide for Nd-doped fiber laser operating near 940 nm. Optics Communications, 2005, 247, 153-162.	2.1	27
153	Amplified spontaneous emission light source near 640 nm in an organicâ€“inorganic hybrid device based on a dye-filled hollow optical fiber. Optics Communications, 2005, 247, 163-169.	2.1	2
154	W-type fiber design for application in U- and S-band amplifiers by controlling the LP01 mode long wavelength cut-off. Optical Fiber Technology, 2005, 11, 332-345.	2.7	2
155	Optical anisotropy in single-walled carbon nanotubes. Optics Letters, 2005, 30, 3201.	3.3	7
156	Emission Cross-Section Synthesis in Rare Earth Doped Optical Fiber. , 2005, , .		0
157	Neodymium-doped cladding-pumped aluminosilicate fiber laser tunable in the 0.9-/spl mu/m wavelength range. IEEE Journal of Quantum Electronics, 2004, 40, 1275-1282.	1.9	51
158	Development of a glass optical fiber containing ZnOâ€“Al2O3â€“SiO2 glass-ceramics doped with Co2+ and its optical absorption characteristics. Journal of Non-Crystalline Solids, 2003, 315, 180-186.	3.1	21
159	Optical properties of the optical fiber containing Co2+ doped ZnOâ€“Al2O3â€“SiO2 glass-ceramics. Journal of Non-Crystalline Solids, 2002, 303, 291-295.	3.1	14
160	Yb:Al-doped depressed clad hollow optical fiber laser operating at 980nm. , 0, , .		1