

Amiel A Ishaaya

List of Publications by Year in descending order

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89
papers

1,129
citations

430754

18
h-index

414303

32
g-index

89
all docs

89
docs citations

89
times ranked

744
citing authors

#	ARTICLE	IF	CITATIONS
1	Collapse of Optical Vortices. Physical Review Letters, 2006, 96, 133901.	2.9	136
2	Collapse dynamics of super-Gaussian Beams. Optics Express, 2006, 14, 5468.	1.7	110
3	Very high-order pure Laguerre-Gaussian mode selection in a passive Q-switched Nd:YAG laser. Optics Express, 2005, 13, 4952.	1.7	52
4	Self-focusing dynamics of polarization vortices in Kerr media. Optics Letters, 2008, 33, 13.	1.7	52
5	Efficient selection of high-order Laguerre-Gaussian modes in a Q-switched Nd:YAG laser. IEEE Journal of Quantum Electronics, 2003, 39, 74-82.	1.0	47
6	Controlled interactions of femtosecond light filaments in air. Physical Review A, 2010, 81, .	1.0	43
7	Efficient conversion of a Gaussian beam to a high purity helical beam. Optics Communications, 2002, 209, 265-271.	1.0	42
8	Intracavity coherent addition of 16 laser distributions. Optics Letters, 2006, 31, 350.	1.7	39
9	Collapse and Stability of Necklace Beams in Kerr Media. Physical Review Letters, 2007, 99, 133902.	2.9	39
10	Conversion of a high-order mode beam into a nearly Gaussian beam by use of a single interferometric element. Optics Letters, 2003, 28, 504.	1.7	37
11	Wavelength conversion of nanosecond pulses to the mid-IR in photonic crystal fibers. Optics Letters, 2012, 37, 82.	1.7	37
12	Intracavity coherent addition of Gaussian beam distributions using a planar interferometric coupler. Applied Physics Letters, 2004, 85, 2187-2189.	1.5	36
13	Passive Laser Beam Combining With Intracavity Interferometric Combiners. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 301-311.	1.9	34
14	Coherent addition of spatially incoherent light beams. Optics Express, 2004, 12, 4929.	1.7	30
15	Highly-efficient coupling of linearly- and radially-polarized femtosecond pulses in hollow-core photonic band-gap fibers. Optics Express, 2009, 17, 18630.	1.7	26
16	115-W fiber laser with an all solid-structure and a large-mode-area multicore fiber. Optics Letters, 2018, 43, 3369.	1.7	26
17	Efficient formation of a high-quality beam from a pure high-order Hermite-Gaussian mode. Optics Letters, 2002, 27, 1501.	1.7	23
18	Self-focusing dynamics of coupled optical beams. Physical Review A, 2007, 75, .	1.0	23

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19	Large volume ablation of Sapphire with ultra-short laser pulses. Applied Surface Science, 2013, 270, 763-766.	3.1	18
20	Improving the output beam quality of multimode laser resonators. Optics Express, 2005, 13, 2722.	1.7	17
21	Femtosecond inscription of phase-shifted gratings by overlaid fiber Bragg gratings. Optics Letters, 2016, 41, 2017.	1.7	16
22	Efficient mode transformations of degenerate Laguerre-Gaussian beams. Applied Optics, 2004, 43, 2561.	2.1	15
23	Phase locking a fiber laser array via diffractive coupling. Optics Express, 2011, 19, 1510.	1.7	14
24	Competition between stimulated Raman and Brillouin scattering processes in CF ₄ gas. Optics Letters, 2014, 39, 1026.	1.7	13
25	Femtosecond laser inscription of Bragg gratings on a thin GaN film grown on a sapphire substrate. Optics and Lasers in Engineering, 2018, 109, 68-72.	2.0	13
26	Femtosecond Bragg grating inscription in an Yb-doped large-mode-area multicore fiber for high-power laser applications. Optics Letters, 2020, 45, 4563.	1.7	12
27	Passive intra-cavity phase locking of laser channels. Optics Communications, 2006, 263, 60-64.	1.0	11
28	Effect of femtosecond photo-treatment on inscription of fiber Bragg gratings. Optics Letters, 2016, 41, 765.	1.7	11
29	Upscaling coherent addition of laser distributions. Optics Communications, 2007, 275, 389-393.	1.0	10
30	Atherectomy using a solid-state laser at 355 nm wavelength. Journal of Biophotonics, 2017, 10, 1271-1278.	1.1	10
31	Passive intracavity coherent addition of nine laser distributions. Applied Physics Letters, 2006, 88, 041103.	1.5	9
32	07 MW output power from a two-arm coherently combined Q-switched photonic crystal fiber laser. Optics Express, 2014, 22, 6416.	1.7	9
33	A Route to Laser Angioplasty in the Presence of Fluoroscopy Contrast Media, Using a Nanosecond-Pulsed 355-nm Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 342-347.	1.9	9
34	Strain-assisted femtosecond inscription of phase-shifted gratings. Optics Letters, 2018, 43, 3893.	1.7	9
35	Large-mode-area multicore Yb-doped fiber for an efficient high power 976 nm laser. Optics Express, 2021, 29, 21992.	1.7	9
36	Characterizing the effect of femtosecond photo-treatment on the center wavelength of fiber Bragg gratings. Optics Express, 2018, 26, 18990.	1.7	9

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37	Mode Selection in Large-Mode-Area Step-Index Multicore Fiber Laser and Amplifier. IEEE Photonics Technology Letters, 2020, 32, 722-725.	1.3	8
38	High-efficiency Raman conversion in SF6- and CF4-filled hollow-core photonic bandgap fibers. Optics Letters, 2019, 44, 5856.	1.7	8
39	Chalcogenide waveguides on a sapphire substrate for mid-IR applications. Optics Letters, 2014, 39, 2522.	1.7	7
40	Effect of spatial coherence on damage occurrence in multimode optical fibers. Optics Letters, 2015, 40, 415.	1.7	7
41	Passive Q-switching of a Tm:YLF laser with a Co ²⁺ doped silver halide saturable absorber. Optical Materials, 2017, 64, 64-69.	1.7	6
42	Radiative and non-radiative transitions of excited Ti ³⁺ cations in sapphire. Scientific Reports, 2019, 9, 18810.	1.6	6
43	Increasing output energy from a passively Q-switched Er:glass laser. Applied Optics, 2007, 46, 7426.	2.1	5
44	Phase Clusters Induced by Degeneracy in a Phase Locked Fiber Laser Array. IEEE Journal of Quantum Electronics, 2011, 47, 1526-1530.	1.0	4
45	Shaping photomechanical effects in tissue ablation using 355 nm laser pulses. Journal of Biophotonics, 2017, 10, 1262-1270.	1.1	4
46	Ns-duration transient Bragg gratings in silica fibers. Optics Letters, 2017, 42, 4748.	1.7	4
47	In situ tissue classification during laser ablation using acoustic signals. Journal of Biophotonics, 2019, 12, e201800405.	1.1	4
48	Silicon nanophotonic multitaper for efficient light coupling between fiber and silicon waveguide. Journal of Nanophotonics, 2013, 7, 073084.	0.4	3
49	Imposing narrow spectral bandwidth in a system of passively combined fiber lasers. Optics Letters, 2013, 38, 603.	1.7	2
50	Tissue post-€classification using the measured acoustic signals during 355-€nm laser atherectomy procedures. Journal of Biophotonics, 2021, 14, e202000185.	1.1	2
51	Scaling effects and brittle fracture mechanisms in laser punching of PECVD SiO ₂ films. Journal of Micromechanics and Microengineering, 2020, 30, 115016.	1.5	2
52	<title>Transformation of a high-order mode-intensity distribution to a nearly Gaussian beam</title>. , 2003, , .		1
53	Collapse of optical vortices. , 2006, , .		1
54	Efficient excitation of polarization vortices in a photonic bandgap fiber with ultrashort laser pulses. , 2008, , .		1

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55	Frequency, phase, and polarization locking of evanescently coupled lasers. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1226.	0.9	1
56	Imposing temporal and frequency characteristics in a system of coherently combined high peak power photonic crystal fiber lasers. , 2013, , .		1
57	Experimental characterization of an off-axis scheme for pumping high-power photonic crystal fiber lasers. Applied Physics B: Lasers and Optics, 2014, 114, 327-331.	1.1	1
58	Large-mode-area Multicore Fiber Amplifier at 1070 nm. , 2018, , .		1
59	Efficient 976 nm laser based on an all-solid and large-mode-area multicore Yb-doped fiber. , 2021, , .		1
60	Collapse and stability of necklace beams in Kerr media. , 2007, , .		1
61	115 W Large-mode-area Multi-core Fiber Laser with All Solid Structure. , 2018, , .		1
62	Multitaper high efficiency coupler that overcomes coupling misalignment errors. Journal of Nanophotonics, 2018, 12, 1.	0.4	1
63	Stability of polarization vortices in self-focusing Kerr media. , 2007, , .		0
64	Upscaling coherent addition of laser distributions. , 2007, , .		0
65	High Power Photonic Crystal Fiber Lasers and their Intracavity Coherent Combining. , 2012, , .		0
66	Characterization of Coherently Combined High Peak Power Photonic Crystal Fiber Lasers. , 2013, , .		0
67	0.7 MW Output Power from Coherently Combined Q-Switched Fiber Lasers. , 2013, , .		0
68	Fundamental mode amplification in 140 μm core diameter fiber. , 2013, , .		0
69	Single-channel Q-switching in a system of coherently combined fiber lasers. Applied Physics B: Lasers and Optics, 2014, 117, 995-999.	1.1	0
70	Short pulse generation based on ultrafast Transient Bragg Gratings. , 2015, , .		0
71	Highly efficient 10¦m long fiber laser. Optics Letters, 2015, 40, 407.	1.7	0
72	Lead extraction by selective operation of a nanosecond-pulsed 355nm laser. Proceedings of SPIE, 2016, , .	0.8	0

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73	Femtosecond laser inscription of Bragg gratings formed on a thin GaN film grown on a sapphire substrate. , 2017, , .		0
74	Femtosecond Laser Induced of Nano-Gratings on a Thin Gan Layer Grown on a Sapphire Substrate. , 2019, , .		0
75	Femtosecond Transient Bragg Gratings. , 2019, , .		0
76	Applying tiling and pattern theory in the design of hollow-core photonic crystal fibers for multi-wavelength beam guidance. Scientific Reports, 2020, 10, 19697.	1.6	0
77	Femtosecond written phase-shifted-gratings and fiber Bragg gratings arrays using defocusing and phase-mask movement. , 2021, , .		0
78	Laser assisted oxygen cutting of thick mild steel with off-axis beam delivery of 400 W fiber-coupled diode lasers. , 2021, , .		0
79	Time-resolved imaging and simulations of SiO2 films dynamic fracture due to laser-induced confined micro-explosion at Si/SiO2 interface. , 2021, , .		0
80	Phase locking a fiber laser array via diffractive coupling. , 2010, , .		0
81	High Power Photonic Crystal Fiber Lasers and their Intracavity Coherent Combining. , 2011, , .		0
82	High average power cascaded FWM in photonic crystal fibers. , 2013, , .		0
83	Ns in-fiber modulator by dynamic Bragg grating. , 2016, , .		0
84	Fine-tuning the fiber Bragg grating wavelength by femtosecond photo-treatment. , 2018, , .		0
85	Femtosecond inscription of phase-shifted gratings by exploiting fiber strain. , 2018, , .		0
86	16 W Large-mode-area Multi-core Q-switched Fiber Laser. , 2019, , .		0
87	Yb-doped Large Mode Area Multicore Fiber Laser with a Fs-inscribed Fiber Bragg Grating. , 2020, , .		0
88	Efficient Raman Conversion in SF6- and CF4-FiÅ»ed Hollow-Core Photonic Bandgap Fibers. , 2020, , .		0
89	Intracavity Coherent Addition of Lasers. , 0, , 117-136.		0