

# Jan K Jabczynski

## List of Publications by Year in descending order

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92  
papers

300  
citations

933447

10  
h-index

888059

17  
g-index

92  
all docs

92  
docs citations

92  
times ranked

205  
citing authors

#	ARTICLE	IF	CITATIONS
1	Segmented vortex wavefront coherent beam combining. AIP Advances, 2022, 12, .	1.3	0
2	Simplified sensitivity analysis of coherent beam combining in a tiled aperture architecture. Applied Optics, 2021, 60, 5012.	1.8	6
3	Impact of atmospheric turbulence on coherent beam combining for laser weapon systems. Defence Technology, 2021, 17, 1160-1167.	4.2	18
4	Vortex Coherent Beam Combining. , 2021, , .		0
5	Characterization of Absorption Losses and Transient Thermo-Optic Effects in a High-Power Laser System. Photonics, 2020, 7, 94.	2.0	1
6	Analysis of the caustics of partially coherently combined truncated Gaussian beams. Applied Optics, 2020, 59, 3340.	1.8	8
7	Propagation of coherently combined beams in turbulent atmosphere: analytical approach. , 2020, , .		0
8	Investigations of transient thermal optics effects in 10kW fiber laser effector. , 2020, , .		0
9	Tolerance Analysis for Piston and Tilt Error in Hexagonal Laser Phased Array. , 2019, , .		0
10	Effect of beam profile and partial coherence on coherent beam combining performance. Optics Communications, 2019, 442, 40-45.	2.1	15
11	Influence of beam shape on piston and tilt error in coherent combined laser array. Optical Engineering, 2019, 58, 1.	1.0	3
12	Characterization of beam quality of 10-kW class laser. , 2019, , .		1
13	Beam quality characterization of 10-kW CW fiber laser effector. , 2019, , .		0
14	Model of partially coherent combining and propagation of 2D array of laser beams. , 2018, , .		0
15	Modeling of the laser beam shape for high-power applications. Optical Engineering, 2018, 57, 1.	1.0	4
16	Analysis of partially coherent combining of 2D arrays of laser beams. , 2018, , .		1
17	Tolerance analysis of coherent combining optical system. , 2018, , .		1
18	Development of laser technology in Poland: 2018. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	High-peak power, athermal Nd:YAG transmitter. , 2017, , .		1
20	Analysis of optical scheme for medium-range directed energy laser weapon system. , 2017, , .		0
21	Development of laser technology in Poland: 2016. , 2016, , .		2
22	Investigative study of a diode-pumped continuous-wave Tm:YAP laser as an efficient 1.94 $\mu$ m pump source. , 2016, , .		1
23	Analysis of pumping schemes for high brightness diode-side-pumped lasers. , 2016, , .		0
24	Diode-side-pumped, passively Q-switched Yb:LuAG laser. Optics and Laser Technology, 2015, 73, 101-104.	4.6	4
25	An efficient continuous-wave and Q-switched single-pass two-stage Ho:YLF MOPA system. Optics and Laser Technology, 2015, 67, 93-97.	4.6	13
26	Near-diffraction-limited, high peak power, electro-optically Q-switched, diode-side-pumped Nd:YVO4 grazing-incidence oscillator. Optics and Laser Technology, 2015, 65, 50-55.	4.6	1
27	Optimization of diode-side-pumped, passively Q-switched Yb:LuAG slab laser. , 2015, , .		0
28	Low threshold polycrystalline Cr:ZnSe laser gain-switched in high inversion regime. , 2014, , .		0
29	Diode-pumped, actively Q-switched Nd:YAG laser with self-adaptive, reciprocal, closed-loop resonator. Optics Express, 2014, 22, 30657.	3.4	6
30	Self-adaptive, passively Q-switched, diode-side-pumped Nd:YAG slab laser. Proceedings of SPIE, 2014, , .	0.8	0
31	Diode pumped Yb-lasers Q-switched by V:YAG saturable absorber. Proceedings of SPIE, 2014, , .	0.8	0
32	Polycrystalline Cr:ZnSe laser pumped by efficient Tm:YLF laser. Proceedings of SPIE, 2014, , .	0.8	0
33	Diffraction-limited, grazing-incidence Nd:YVO4slab laser side pumped by 2D laser diode stack. , 2014, , .		0
34	Design and characterization of beam shapers for end-pumped lasers. , 2014, , .		0
35	Ultra low threshold gain-switched Cr:ZnSe laser. , 2014, , .		0
36	Continuous-wave and high repetition rate Q-switched operation of Ho:YLF laser in-band pumped by a linearly polarized Tm:fiber laser. Optics and Laser Technology, 2014, 63, 66-69.	4.6	11

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37	Resonantly pumped, Q-switched Ho:YLF laser with output energy of 5 mJ at 1 kHz. Photonics Letters of Poland, 2014, 6, .	0.4	0
38	Polycrystalline Cr <sup>2+</sup> :ZnSe Laser Pumped by Efficient Tm:YLF Oscillator. , 2013, , .		0
39	The investigation of transient thermal effects in optical elements under high laser intensities. Proceedings of SPIE, 2012, , .	0.8	0
40	A highly efficient resonantly pumped Ho:YAG laser. Proceedings of SPIE, 2012, , .	0.8	1
41	Analysis on non-stationary thermo-optical effects occurring in laser mirrors under high heat load. , 2012, , .		0
42	Optimization of end-pumped, actively Q-switched quasi-III-level lasers. Optics Express, 2011, 19, 15652.	3.4	11
43	Analysis of thermo-optic effects in Nd:YAG ceramics disk under high heat load. Proceedings of SPIE, 2011, , .	0.8	0
44	Technology and characterization of Nd:YAG ceramics. AIP Conference Proceedings, 2010, , .	0.4	0
45	High peak power Nd:YAG laser pumped by 600-W diode laser stack. Optics and Laser Technology, 2008, 40, 441-444.	4.6	11
46	Comparison of tunable lasers based on diode pumped Tm-doped crystals. Proceedings of SPIE, 2008, , .	0.8	4
47	Efficient, high peak power, Q-switched, tunable diode pumped Tm:YLF laser. , 2008, , .		1
48	Ytterbium doped phosphate glass air-clad photonic crystal fiber for laser applications. Proceedings of SPIE, 2008, , .	0.8	0
49	High repetition rate, acousto-optic Q-switched, diode pumped Tm:YLF laser. , 2008, , .		0
50	The investigations of tunable, high peak power, diode pumped Tm:YLF laser. , 2008, , .		1
51	Optical and laser characterization of 2% Nd:YAG ceramics elements. , 2008, , .		0
52	2-mJ picosecond Nd:YAG slab laser passively Q-switched and mode-locked using multiple quantum well saturable absorbers. , 2007, , .		0
53	Acousto-optic modulation in diode-pumped solid-state lasers. Optical Engineering, 2007, 46, 074202.	1.0	2
54	Quasi CW Laser Diode Side Pumped Nd:YAG Slab Laser Passively Mode-locked Using Multiple Quantum Well Saturable Absorbers. , 2007, , .		0

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55	Q-switched neodymium slab lasers at $1.3\ \mu\text{m}$ wavelength side-pumped by a	1.0	1
56	Q-switched mode locking with acousto-optic modulator in a diode-pumped Nd:YVO <sub>4</sub> laser. Optics Express, 2006, 14, 2184.	3.4	64
57	New wavelengths generated by BaWO <sub>4</sub> or KGW intracavity Raman laser. , 2006, 6100, 377.		0
58	A highly efficient pulsed Nd:YVO <sub>4</sub> laser pumped by two high-power diode lasers. , 2006, 6599, 68.		0
59	Acousto-optic modulation in diode pumped solid state lasers. , 2006, , .		4
60	High power single- and double-frequency, tunable mini-laser with nano-film selector for onboard applications. , 2006, 6243, 197.		0
61	High-peak-power intracavity OPO transmitter at 1572 nm. , 2006, 6216, 237.		0
62	Side-pumped neodymium slab lasers Q-switched by V:YAG on $1.3\ \mu\text{m}$ . , 2006, 6100, 444.		0
63	Nd:YAG slab laser side pumped by 600-W diode laser stack. , 2006, , .		2
64	Acousto-Optic Q-Switching and Mode Locking in Diode Pumped Nd:YVO <sub>4</sub> Laser. , 2006, , .		0
65	Intracavity optical parametric oscillator pumped by acousto-optically Q-switched Nd:YVO <sub>4</sub> laser. , 2005, , .		1
66	Diode pumped cw mode locked Nd:YVO <sub>4</sub> laser. , 2005, , .		0
67	Application of Wigner transform for characterization of aberrated laser beams. , 2005, , .		0
68	Characterization of thermo-optic effects in diode end pumped lasers. , 2005, , .		0
69	Intracavity pumped gain-switched broadband LiF:F <sup>2+</sup> - laser. , 2005, , .		0
70	Comparison of diode-side-pumped triangular Nd:YAG and Nd:YAP laser. , 2005, , .		6
71	Investigations of Q-switching and mode locking in diode-pumped Nd:YVO <sub>4</sub> laser with passive saturable absorbers. , 2005, , .		0
72	Diode pumped Q-switched and mode locked lasers. , 2005, 5958, 22.		0

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73	<title>Characterization of thermo-optic effects in diode pumped solid state lasers</title>. , 2005, , .		0
74	Highly efficient, intracavity-pumped KTP OPO at 1572 nm. , 2005, , .		0
75	Modeling of beam width in passively Q-switched end-pumped lasers. Optics Express, 2003, 11, 552.	3.4	12
76	Passively Q-switched diode-pumped Nd:YAG laser with intracavity optical parametric oscillator. , 2003, , .		0
77	Diode-pumped passively Q-switched nanosecond Raman laser on BaWO <sub>4</sub> crystal converter. , 2003, 5036, 582.		2
78	Optical characterization of diode side pumped active elements. , 2003, , .		1
79	Passively mode-locked Q-switched Nd:YAP 1.34-um/1.08-um laser with efficient hollow-waveguide radiation delivery. , 2002, , .		0
80	Efficient diode-pumped passively Q-switched Raman laser on barium tungstate crystal. Optics Communications, 2002, 209, 403-409.	2.1	39
81	Chromium-doped LiCAF laser passively Q switched with a V <sup>3+</sup> :YAG crystal. Applied Optics, 2001, 40, 6638.	2.1	22
82	Modeling of diode pumped laser with pump dependent diffraction loss. Optics Communications, 2000, 182, 413-422.	2.1	12
83	Single-frequency generation in Nd:crystals diode-pumped lasers. , 1998, 3320, 274.		0
84	Propagation of aberrated Gaussian beams. , 1998, , .		1
85	<title>Pulsed diode-pumped solid state lasers</title>. , 1997, 3186, 284.		0
86	<title>Influence of active media parameters on generation characteristics of microlasers</title>. , 1997, , .		0
87	<title>Formation of diode end-pumped laser beams</title>. , 1997, 3186, 296.		0
88	Tunable single-frequency diode-pumped neodymium lasers with metallic thin film selectors. , 1997, , .		0
89	Minimum averaged area of asymmetric multimode pumping beam. Optics Communications, 1997, 140, 1-5.	2.1	5
90	<title>Thermally induced GRIN effects in diode-pumped lasers</title>. , 1996, , .		0

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91	<title>Quasi-geometrical approach in laser diode optics problems</title>. , 1995, , .		0
92	An Analytical Model Of Focal Region Of Conical , Annular Beam -2 - D And 3 - D Cases.. Proceedings of SPIE, 1990, 1121, 624.	0.8	0