

Anatolii Kirpichnikov

List of Publications by Year in descending order

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40
papers

202
citations

1163117

8
h-index

1125743

13
g-index

40
all docs

40
docs citations

40
times ranked

103
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of the laser amplification process with allowance for the effect of the temperature distribution in an Yb : YAG gain element on the thermophysical and lasing characteristics of the medium. Quantum Electronics, 2020, 50, 315-320.	1.0	8
2	Compromise between wavefront distortions and gain in high power laser amplifier. , 2020, , .		0
3	Modeling of thermal field in active elements with non-uniform concentration distribution of dopant ions. AIP Conference Proceedings, 2019, , .	0.4	3
4	Contactless method for studying temperature within the active element of a multidisk cryogenic amplifier. Quantum Electronics, 2019, 49, 358-361.	1.0	14
5	Two-photon absorption in undoped LiTaO3 crystals. Optical Materials, 2018, 78, 253-258.	3.6	27
6	Optimisation of a multi-disk cryogenic amplifier for a high-intensity, high-repetition-rate laser system. Quantum Electronics, 2018, 48, 358-362.	1.0	9
7	The Multidisk Diode-Pumped High Power Yb:YAG Laser Amplifier of High-Intensity Laser System with 1 kHz Repetition Rate. Journal of Physics: Conference Series, 2018, 999, 012008.	0.4	7
8	The modeling of thermal fields in high power multi-disk cryogenic laser amplifier. AIP Conference Proceedings, 2017, , .	0.4	3
9	The amplification of transform-limited pulses in media with homogeneously broadened line. , 2016, , .		0
10	Carrier-envelope offset phase control and stabilization of kilohertz solid-state laser system. , 2016, , .		0
11	Implementation of multiterawatt femtosecond laser system at kilohertz repetition rate. , 2014, , .		0
12	Formation of color centers and light scattering structures by femtosecond laser pulses in sodium fluoride. Optics Communications, 2014, 330, 56-60.	2.1	14
13	Formation of luminescent emitters by intense laser radiation in transparent media. Quantum Electronics, 2013, 43, 463-466.	1.0	39
14	Influence of femtosecond laser radiation on cells of the transplantable tumour Krebs-2. Quantum Electronics, 2012, 42, 505-508.	1.0	0
15	Ultrarelativistic laser systems based on coherent beam combining. , 2012, , .		4
16	3D Fluorescent Imaging with Highly Nonlinear Photosensitive Materials. , 2011, , .		1
17	Limiting the intensity of femtosecond pulses with anti-stokes excitation of organic dye solutions. Russian Physics Journal, 2010, 53, 270-275.	0.4	0
18	Design of high gain OPCPA for multiterawatt and petawatt class systems on large aperture LBO crystals. , 2010, , .		6

#	ARTICLE	IF	CITATIONS
19	Measurement of thermal lensing in end-pumped Yb-doped yttrium vanadate crystal and sesquioxide laser ceramics. , 2010, , .		0
20	Highly nonlinear fundamental mechanisms of excitation and coloring of wide-gap crystals by intense femtosecond laser pulses. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 105, 348-351.	0.6	14
21	Spatiotemporal reshaping and compression of high intensity femtosecond pulses. , 2007, , .		0
22	Thermo-optical properties of beryllium containing oxide crystals as materials for high power laser systems. , 2007, , .		2
23	Features of femtosecond laser pulses interaction with laser nanoceramics. Proceedings of SPIE, 2007, , .	0.8	0
24	<title>Hybrid ytterbium doped active medium for femtosecond lasers</title>. , 2007, , .		2
25	Partially disordered Yb:Gd x Y 1-x VO 4 crystal for femtosecond lasers. , 2007, , .		0
26	<title>Spectroscopic and laser properties of BeLaAl$\langle \inf \langle \roman \rangle 11 \langle /roman \rangle \langle /inf \rangle \langle /math \rangle O \langle \math \rangle \langle \inf \langle \roman \rangle 19 \langle /roman \rangle \langle /inf \rangle \langle /math \rangle$ crystals doped with Cr$\langle \sup \langle \roman \rangle 3+ \langle /roman \rangle \langle /sup \rangle \langle /math \rangle$ and Nd$\langle \sup \langle \roman \rangle 3+ \langle /roman \rangle \langle /sup \rangle \langle /math \rangle$ ions</title>. , 2006, 6054, 137.		0
27	<title>Hybrid high power femtosecond laser system</title>. , 2006, , .		1
28	<title>Availability of new Yb:YVO$\langle \inf \langle \roman \rangle 4 \langle /roman \rangle \langle /inf \rangle \langle /math \rangle$ and Yb:Gd$\langle \inf \langle \roman \rangle x \langle /roman \rangle \langle /inf \rangle \langle /math \rangle Y \langle \math \rangle \langle \inf \langle \roman \rangle 1-x \langle /roman \rangle \langle /inf \rangle \langle /math \rangle VO \langle \math \rangle \langle \inf \langle \roman \rangle 2 \langle /roman \rangle \langle /inf \rangle \langle /math \rangle$ laser crystals for femtosecond laser systems at low temperature</title>. , 2005, , .		0
29	<title>Multilevel kinoform microlens arrays in fused silica for high-power laser optics</title>. , 2004, , .		7
30	Femtosecond SESAM lasers with shortlength cavity. , 2003, , .		0
31	<title>Ultrashort mode-locked lasers with additional Raman active elements</title>. , 2002, 4752, 26.		0
32	Investigation of Kerr-lens mode locking in lasers with composite active media. , 2001, , .		0
33	Spectroscopic and laser properties of BeLaAl 11 O 19 single crystals doped with Cr3+, Ti3+, and Nd3+ions. , 2001, 4350, 68.		3
34	Physical properties of BeAl6O10 single crystals. Journal of Applied Physics, 1997, 82, 3661-3666.	2.5	10
35	Infrared cw tunable color center lasers. , 1992, , .		0
36	Stimulated emission from (F2+)Acolor centers in an NaF crystal. Soviet Journal of Quantum Electronics, 1981, 11, 833-834.	0.1	6

#	ARTICLE	IF	CITATIONS
37	Spectral characteristics of radiation emitted by a YAG:Nd ³⁺ -laser with a saturable absorber in the form of an LiF crystal containing F ²⁺ centers. Soviet Journal of Quantum Electronics, 1981, 11, 685-686.	0.1	11
38	Tunable (0.86 μm) cw room-temperature laser utilizing F ²⁺ -color centers in an LiF crystal. Soviet Journal of Quantum Electronics, 1980, 10, 648-649.	0.1	5
39	Investigation of the spectral characteristics of a pulsed F ²⁺ -center laser tunable in the range 1.1 μm - 1.26 μm. Soviet Journal of Quantum Electronics, 1979, 9, 1554-1556.	0.1	4
40	Kinoform optical elements in fused silica for high-power laser optics. , 0, , .		0