

Vladimir Petrov

List of Publications by Year in descending order

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26
papers

70
citations

1684188

5
h-index

1588992

8
g-index

26
all docs

26
docs citations

26
times ranked

35
citing authors

#	ARTICLE	IF	CITATIONS
1	YAG:Yb crystal with non-linear doping ions distribution as promising active element for high average power laser systems. Laser Physics, 2021, 31, 035003.	1.2	4
2	Modeling of thermal fields in active elements with a volume inhomogeneous distribution of the concentration of laser ions. AIP Conference Proceedings, 2020, , .	0.4	0
3	Optimization of high peak, high average power laser amplifier with cryogenic cooling. , 2020, , .		0
4	Compromise between wavefront distortions and gain in high power laser amplifier. , 2020, , .		0
5	Modeling of thermal field in active elements with non-uniform concentration distribution of dopant ions. AIP Conference Proceedings, 2019, , .	0.4	3
6	Contactless method for studying temperature within the active element of a multidisk cryogenic amplifier. Quantum Electronics, 2019, 49, 358-361.	1.0	14
7	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
8	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
9	Elaboration of Carrier-Envelope Offset Phase Control and Stabilization of Kilohertz Solid-State Laser System. , 2018, , .		1
10	Thermo-optical properties of Yb:YAG disks in cryogenic amplifier of high intensity femtosecond laser system. , 2018, , .		0
11	The advancement of pump channel of high peak and high average power laser system. , 2018, , .		0
12	The optimization of diode pumped high power multidisk laser amplifier. , 2018, , .		0
13	Upgrading of kilohertz solid-state laser system with stabilization CEO for nonlinear interaction of radiation with optical medium experiments. , 2018, , .		1
14	The evolution of cryogenically cooled pump channel of high-intensity laser system with 1 kHz repetition rate. , 2018, , .		3
15	The modeling of thermal fields in high power multi-disk cryogenic laser amplifier. AIP Conference Proceedings, 2017, , .	0.4	3
16	The amplification of transform-limited pulses in media with homogeneously broadened line. , 2016, , .		0
17	A parametric amplification unit based on nonlinear borate crystals for multiterawatt femtosecond laser system. , 2016, , .		2
18	Carrier-envelope offset phase control and stabilization of kilohertz solid-state laser system. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
19	Simulation of picosecond pulse propagation in fibre-based radiation shaping units. Quantum Electronics, 2016, 46, 801-805.	1.0	8
20	The modeling of supercontinuum generation in photonic-crystal fibre in the spectral broadening unit of high-intensity laser system. , 2015, , .		3
21	Pump channel of parametric amplifier of terawatt femtosecond Yb laser system. Atmospheric and Oceanic Optics, 2014, 27, 344-347.	1.3	1
22	The seed signal for the parametric amplification channel of multiterawatt femtosecond laser system. , 2014, , .		0
23	Implementation of multiterawatt femtosecond laser system at kilohertz repetition rate. , 2014, , .		0
24	Multiterawatt femtosecond laser system with kilohertz pulse repetition rate. Quantum Electronics, 2014, 44, 452-457.	1.0	7
25	The design of Yb:Y ₂ O ₃ ceramic diode-pumped multipass amplifier operating at cryogenic temperatures. Laser Physics, 2014, 24, 074014.	1.2	4
26	Components of femtosecond laser system based on diode-pumped Yb-doped media. Laser Physics, 2014, 24, 074015.	1.2	0