Gorbunkov Mikhail

List of Publications by Year
in descending order

35 papers	226 citations	1040056 9 h-index	1058476 14 g-index
35 all docs	35 docs citations	35 times ranked	91 citing authors

#	Article	IF	Citations
1	Laser-electron generator for X-ray applications in science and technology. Laser and Particle Beams, 2008, 26, 489-495.	1.0	31
2	Pulsed-diode-pumped, all-solid-state, electro-optically controlled picosecond Nd:YAG lasers. Quantum Electronics, 2005, 35, 2-6.	1.0	28
3	Design study of compact Laser-Electron X-ray Generator for material and life sciences applications. Journal of Instrumentation, 2009, 4, P07017-P07017.	1.2	16
4	Compact 1.64 THz source based on a dual-wavelength diode end-pumped Nd:YLF laser with a nearly semiconfocal cavity. Laser Physics Letters, 2014, 11, 015004.	1.4	15
5	Two-loop feedback controlled laser: new possibilities for ultrashort-pulse generation and high-level stabilization. , 2002, 4751, 463.		12
6	Laser electron-beam X-ray source for medical applications. Physics-Uspekhi, 2003, 46, 872-876.	2.2	12
7	Peculiarities of the fundamental mode structure in stable-resonator lasers upon spatially inhomogeneous amplification. Quantum Electronics, 2007, 37, 173-180.	1.0	12
8	Manifestation of active medium astigmatism at transverse mode locking in a diode end-pumped stable resonator laser. Applied Optics, 2008, 47, 3651.	2.1	12
9	Diode end-pumped acousto-optically Q-switched compact Nd:YLF laser. Applied Physics B: Lasers and Optics, 2010, 101, 71-74.	2.2	12
10	Enhanced optical cooling system test in an electron storage ring. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	9
11	Behavior of threshold pump power of diode end-pumped solid-state lasers in critical cavity configurations. Laser Physics Letters, 2015, 12, 025001.	1.4	9
12	Influence of the resonator parameters and spatially nonuniform amplification on the spatial structure of the fundamental mode of stable resonator lasers. Quantum Electronics, 2008, 38, 689-694.	1.0	8
13	Optical unit of Laser-Electron X-ray Generator designed for medical applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, S32-S35.	1.6	8
14	Submicrosecond regular and chaotic nonlinear dynamics in a pulsed picosecond Nd:YAG laser with millisecond pumping. Applied Optics, 2009, 48, 2267.	2.1	8
15	Two-frequency lasing in the Nd:YLF laser with a lens-shaped active element and longitudinal diode pumping. Bulletin of the Lebedev Physics Institute, 2011, 38, 311-316.	0.6	6
16	Proposal of a compact repetitive dichromatic x-ray generator with millisecond duty cycle for medical applications. , 2005, , .		4
17	Relativistic Thomson scattering in compact linacs and storage rings: a route to quasi-monochromatic tunable laboratory-scale x-ray sources. Proceedings of SPIE, 2007, , .	0.8	4
18	Lasing threshold of Nd-doped crystal, ceramic, and glass lasers under spatially inhomogeneous diode pumping. Bulletin of the Lebedev Physics Institute, 2013, 40, 55-61.	0.6	4

#	Article	IF	Citations
19	Spatial radiation intensity distribution of linear diode arrays and calculation of inversion in fibre-coupled end-pumped solid-state lasers. Quantum Electronics, 2005, 35, 1121-1125.	1.0	3
20	Proposal of a compact repetitive dichromatic x-ray generator with millisecond duty cycle for medical applications. , 2006, , .		3
21	Laser-electron x-ray generator. Journal of Surface Investigation, 2007, 1, 435-442.	0.5	2
22	Period doubling cascade and deterministic chaos in a laser self-mode-locked by the combination of inertial negative and positive feedbacks. Bulletin of the Lebedev Physics Institute, 2009, 36, 150-156.	0.6	2
23	Proposal for an Enhanced Optical Cooling system test in an electron storage ring. , 2007, , .		1
24	Symmetry of the spatial structure of radiation upon transverse mode locking in an astigmatic resonator laser. Quantum Electronics, 2009, 39, 759-764.	1.0	1
25	Generation of a regular sequence of short-pulse microtrains with a discretely varied repetition period. Bulletin of the Lebedev Physics Institute, 2009, 36, 270-276.	0.6	1
26	Round-Trip-Time Nonlinear Dynamics of Electro-Optically-Controlled Solid State Lasers. Journal of Russian Laser Research, 2014, 35, 492-500.	0.6	1
27	Discrete Maps and the Problem of Round Trip Time Scale Nonlinear Dynamics in Solid-State Lasers. Springer Proceedings in Mathematics and Statistics, 2015, , 159-170.	0.2	1
28	Analysis of Self-Starting Harmonic Mode-Locking in an Electro-Optic-Feedback Laser. IEEE Journal of Quantum Electronics, 2021, 57, 1-8.	1.9	1
29	<title>Picosecond Streak Tube Line Spread Function (LSF) Investigation By Using Ultrashort Light Pulses</title>. , 1983, 0348, 590.		0
30	Quasi CW mode, regular and chaotic dynamics in picosecond Nd:YAG laser with millisecond pumping under optoelectronic feedback control. , 2007, , .		0
31	Development of a Laser Unit with a Time Structure required by a Medical Thomson X-ray Generator. AIP Conference Proceedings, 2007, , .	0.4	0
32	Self-stimulated emission of undulator radiation. Journal of Instrumentation, 2010, 5, P07004-P07004.	1.2	0
33	Laser cavity round trip time scale regular and chaotic nonlinear dynamics in a picosecond laser controlled with a combination of positive and negative optoelectronic feedbacks. , 2010, , .		0
34	Enhanced optical cooling of muon beams. Journal of Instrumentation, 2010, 5, P01011-P01011.	1.2	0
35	Variable Repetition Rate Picosecond Master Oscillator for Photoelectron Gun. Photonics, 2022, 9, 106.	2.0	0