

Alexander A Soloviev

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

535
citations

759233

12
h-index

642732

23
g-index

37
all docs

37
docs citations

37
times ranked

619
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of the focusability of petawatt laser pulses after nonlinear post-compression. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1936.	2.1	5
2	240-mm bimorph deformable mirror for wavefront correction at the PEARL facility. , 2021, , .		0
3	Experimental Study of the Interaction of a Laser Plasma Flow with a Transverse Magnetic Field. Radiophysics and Quantum Electronics, 2021, 63, 876-886.	0.5	8
4	Pulsed magnetic field generation system for laser-plasma research. Review of Scientific Instruments, 2021, 92, 123506.	1.3	6
5	Experimental study of strongly mismatched regime of laser-driven wakefield acceleration. Plasma Physics and Controlled Fusion, 2020, 62, 094004.	2.1	6
6	Alignment of solid targets under extreme tight focus conditions generated by an ellipsoidal plasma mirror. Matter and Radiation at Extremes, 2019, 4, 024402.	3.9	6
7	Laser-Produced Magnetic-Rayleigh-Taylor Unstable Plasma Slabs in a 20ÅT Magnetic Field. Physical Review Letters, 2019, 123, 205001.	7.8	31
8	Comparison of Dimensionless Parameters in Astrophysical MHD Systems and in Laboratory Experiments. Astronomy Reports, 2018, 62, 483-491.	0.9	5
9	Detailed characterization of laser-produced astrophysically-relevant jets formed via a poloidal magnetic nozzle. High Energy Density Physics, 2017, 23, 48-59.	1.5	25
10	Formation of a plasma with the determining role of radiative processes in thin foils irradiated by a pulse of the PEARL subpetawatt laser. JETP Letters, 2017, 105, 13-17.	1.4	11
11	Experimental evidence for short-pulse laser heating of solid-density target to high bulk temperatures. Scientific Reports, 2017, 7, 12144.	3.3	24
12	Laboratory unraveling of matter accretion in young stars. Science Advances, 2017, 3, e1700982.	10.3	35
13	Enhancement of Quasistationary Shocks and Heating via Temporal Staging in a Magnetized Laser-Plasma Jet. Physical Review Letters, 2017, 119, 255002.	7.8	18
14	Using a multimode laser in interferometry of ultrasmall phase inhomogeneities. Technical Physics Letters, 2016, 42, 317-320.	0.7	0
15	Diagnostics of laser-produced plasmas based on the analysis of intensity ratios of He-like ions X-ray emission. Physics of Plasmas, 2016, 23, .	1.9	9
16	Experimental stand for studying the impact of laser-accelerated protons on biological objects. Quantum Electronics, 2016, 46, 283-287.	1.0	6
17	Problems in the application of a null lens for precise measurements of aspheric mirrors. Applied Optics, 2016, 55, 619.	2.1	36
18	Application of point diffraction interferometry for measuring angular displacement to a sensitivity of 001 arcsec. Applied Optics, 2015, 54, 9315.	2.1	3

#	ARTICLE	IF	CITATIONS
19	Laser amplifier based on a neodymium glass rod 150 mm in diameter. Quantum Electronics, 2014, 44, 426-430.	1.0	6
20	150MM diameter Nd:glass rod laser amplifier: characterization and prospects. Proceedings of SPIE, 2014, , .	0.8	1
21	Laboratory formation of a scaled protostellar jet by coaligned poloidal magnetic field. Science, 2014, 346, 325-328.	12.6	173
22	Short spatial filters with spherical lenses for high-power pulsed lasers. Quantum Electronics, 2013, 43, 1082-1087.	1.0	0
23	Vortical Freak Waves in Water Under External Pressure Action. Physical Review Letters, 2013, 110, 014501.	7.8	16
24	Fast electron beam measurements from relativistically intense, frequency-doubled laserâ€™solid interactions. New Journal of Physics, 2013, 15, 093021.	2.9	5
25	Optical isolation in the LIGO gravitational wave laser detector in transient states. Quantum Electronics, 2012, 42, 367-371.	1.0	5
26	Fast electron generation using PW-class PEARL facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 35-41.	1.6	20
27	Two-screen single-shot electron spectrometer for laser wakefield accelerated electron beams. Review of Scientific Instruments, 2011, 82, 043304.	1.3	15
28	200MeV electron bunch generated by PETawatt pARametric Laser (PEARL). , 2010, , .		0
29	<title>1 GeV/cm electron acceleration by a petawatt OPCPA laser</title>. , 2010, , .		1
30	Application of Petawatt pARametric Laser (PEARL)â€™ Laser Wakefield Acceleration. AIP Conference Proceedings, 2010, , .	0.4	1
31	Study of a thermal lens in thin laser-ceramics discs. Quantum Electronics, 2009, 39, 302-308.	1.0	16
32	Thermally induced distortions in neodymium glass rod amplifiers. Quantum Electronics, 2009, 39, 895-900.	1.0	9
33	Experimental study of thermal lens features in laser ceramics. Optics Express, 2008, 16, 21012.	3.4	29
34	<title>New method for measurement of far IR beam intensity profile</title>. , 2007, , .		0
35	<title>Experimental study of Faraday isolator for kilowatt-level average powers</title>. , 2007, , .		1
36	Interferometry based technique for intensity profile measurements of far IR beams. Applied Optics, 2007, 46, 3821.	2.1	0

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37	Compensation for thermally induced aberrations in optical elements by means of additional heating by CO ₂ laser radiation. Quantum Electronics, 2006, 36, 939-945.	1.0	3