

Anatoly Faenov

List of Publications by Year in descending order

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35
papers

799
citations

623734

14
h-index

501196

28
g-index

35
all docs

35
docs citations

35
times ranked

702
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance x-ray spectroscopic devices for plasma microsources investigations. <i>Physica Scripta</i> , 1994, 50, 333-338.	2.5	172
2	Acceleration of highly charged GeV Fe ions from a low-Z substrate by intense femtosecond laser. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	75
3	Gas-cluster targets for femtosecond laser interaction: Modeling and optimization. <i>Review of Scientific Instruments</i> , 2006, 77, 083112.	1.3	71
4	Soft x-ray source for nanostructure imaging using femtosecond-laser-irradiated clusters. <i>Applied Physics Letters</i> , 2008, 92, 121110.	3.3	52
5	Low-threshold ablation of dielectrics irradiated by picosecond soft x-ray laser pulses. <i>Applied Physics Letters</i> , 2009, 94, 231107.	3.3	50
6	Exotic Dense-Matter States Pumped by a Relativistic Laser Plasma in the Radiation-Dominated Regime. <i>Physical Review Letters</i> , 2013, 110, 125001.	7.8	49
7	Submicrometer-resolution in situ imaging of the focus pattern of a soft x-ray laser by color center formation in LiF crystal. <i>Optics Letters</i> , 2009, 34, 941.	3.3	47
8	Nanoscale surface modifications and formation of conical structures at aluminum surface induced by single shot exposure of soft x-ray laser pulse. <i>Journal of Applied Physics</i> , 2011, 109, 013504.	2.5	32
9	Nonlinear increase of X-ray intensities from thin foils irradiated with a 200 TW femtosecond laser. <i>Scientific Reports</i> , 2015, 5, 13436.	3.3	32
10	Characterization of submicron-sized CO ₂ clusters formed with a supersonic expansion of a mixed-gas using a three-staged nozzle. <i>Applied Physics Letters</i> , 2013, 102, 164103.	3.3	26
11	Two-temperature Warm Dense Matter Produced by Ultrashort Extreme Vacuum Ultraviolet Free Electron Laser (EUV FEL) Pulse. <i>Contributions To Plasma Physics</i> , 2011, 51, 419-426.	1.1	21
12	Plasma scale-length effects on electron energy spectra in high-irradiance laser plasmas. <i>Physical Review E</i> , 2016, 93, 043201.	2.1	21
13	Interaction of Short Laser Pulses in Wavelength Range from Infrared to X-ray with Metals, Semiconductors, and Dielectrics. <i>Contributions To Plasma Physics</i> , 2011, 51, 361-366.	1.1	18
14	Towards a novel laser-driven method of exotic nuclei extraction acceleration for fundamental physics and technology. <i>Plasma Physics Reports</i> , 2016, 42, 327-337.	0.9	14
15	Evidence of high-n hollow-ion emission from Si ions pumped by ultraintense x-rays from relativistic laser plasma. <i>Europhysics Letters</i> , 2016, 114, 35001.	2.0	12
16	High resolution X-ray spectra of stainless steel foils irradiated by femtosecond laser pulses with ultra-relativistic intensities. <i>Optics Express</i> , 2017, 25, 29501.	3.4	12
17	Generation of Quantum Beams in Large Clusters Irradiated by Superintense, High Contrast Femtosecond Laser Pulses. <i>Contributions To Plasma Physics</i> , 2013, 53, 148-160.	1.1	11
18	Formation of a plasma with the determining role of radiative processes in thin foils irradiated by a pulse of the PEARL subpetawatt laser. <i>JETP Letters</i> , 2017, 105, 13-17.	1.4	11

#	ARTICLE	IF	CITATIONS
19	Ionography of nanostructures with the use of a laser plasma of cluster targets. JETP Letters, 2009, 89, 485-491.	1.4	9
20	Optimization of a laser plasma-based x-ray source according to WDM absorption spectroscopy requirements. Matter and Radiation at Extremes, 2021, 6, .	3.9	9
21	Effective temperature and the directional motion of fast ions in a picosecond laser plasma. JETP Letters, 2005, 81, 616-620.	1.4	7
22	High performance imaging of relativistic soft X-ray harmonics by sub-micron resolution LiF film detectors. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2331-2335.	0.8	7
23	Demonstration of Flying Mirror with Improved Efficiency. , 2009, , .		6
24	Effect of plastic coating on the density of plasma formed in Si foil targets irradiated by ultra-high-contrast relativistic laser pulses. Physical Review E, 2020, 101, 043208.	2.1	6
25	Observation of the inhomogeneous spatial distribution of MeV ions accelerated by the hydrodynamic ambipolar expansion of clusters. Radiation Measurements, 2015, 83, 12-14.	1.4	5
26	The effect of laser contrast on generation of highly charged Fe ions by ultra-intense femtosecond laser pulses. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	5
27	Self-proton/ion radiography of laser-produced proton/ion beam from thin foil targets. Physics of Plasmas, 2012, 19, .	1.9	4
28	Coherent X-ray mirage: discovery and possible applications. High Power Laser Science and Engineering, 2014, 2, .	4.6	4
29	Lithium fluoride crystal as a novel high dynamic neutron imaging detector with microns scale spatial resolution. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2231-2234.	0.8	3
30	Observation of Low-Frequency Electromagnetic Radiation from Laser-Plasmas. , 2009, , .		2
31	Ion acceleration in the interaction of short pulse laser radiation with the cluster-gas target. , 2009, , .		2
32	Interaction of soft x-ray laser pulse radiation with aluminum surface: Nano-meter size surface modification. , 2012, , .		2
33	Relativistic high harmonic generation in gas jet targets. , 2012, , .		1
34	Characterizing the luminescence properties of LiF crystal imaging detectors using femtosecond soft X-ray monochromatic free electron laser radiation. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2239-2242.	0.8	1
35	The spectra of the multicharged argon hollow ions: Observation, modeling and using for diagnostics of the early stage of the heating of clusters by a super high contrast femtosecond laser pulses. , 2012, , .		0