

Anatoly Faenov

List of Publications by Year in descending order

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35
papers

799
citations

623734

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501196

28
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35
all docs

35
docs citations

35
times ranked

702
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	High resolution X-ray spectra of stainless steel foils irradiated by femtosecond laser pulses with ultra-relativistic intensities. Optics Express, 2017, 25, 29501.	3.4	12
6	Evidence of high-n hollow-ion emission from Si ions pumped by ultraintense x-rays from relativistic laser plasma. Europhysics Letters, 2016, 114, 35001.	2.0	12
7	Towards a novel laser-driven method of exotic nuclei extractionâacceleration for fundamental physics and technology. Plasma Physics Reports, 2016, 42, 327-337.	0.9	14
8	Plasma scale-length effects on electron energy spectra in high-irradiance laser plasmas. Physical Review E, 2016, 93, 043201.	2.1	21
9	Nonlinear increase of X-ray intensities from thin foils irradiated with a 200 TW femtosecond laser. Scientific Reports, 2015, 5, 13436.	3.3	32
10	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
11	Acceleration of highly charged GeV Fe ions from a low-Z substrate by intense femtosecond laser. Physics of Plasmas, 2015, 22, .	1.9	75
12	Coherent X-ray mirage: discovery and possible applications. High Power Laser Science and Engineering, 2014, 2, .	4.6	4
13	Exotic Dense-Matter States Pumped by a Relativistic Laser Plasma in the Radiation-Dominated Regime. Physical Review Letters, 2013, 110, 125001.	7.8	49
14	Characterization of submicron-sized CO2 clusters formed with a supersonic expansion of a mixed-gas using a three-staged nozzle. Applied Physics Letters, 2013, 102, 164103.	3.3	26
15	Generation of Quantum Beams in Large Clusters Irradiated by SuperâIntense, High â Contrast Femtosecond Laser Pulses. Contributions To Plasma Physics, 2013, 53, 148-160.	1.1	11
16	Self-proton/ion radiography of laser-produced proton/ion beam from thin foil targets. Physics of Plasmas, 2012, 19, .	1.9	4
17	Interaction of soft x-ray laser pulse radiation with aluminum surface: Nano-meter size surface modification. , 2012, , .		2
18	Relativistic high harmonic generation in gas jet targets. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
19	Lithium fluoride crystal as a novel high dynamic neutron imaging detector with microns scale spatial resolution. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 2231-2234.	0.8	3
20	Characterizing the luminescence properties of LiF crystal imaging detectors using femtosecond soft X-ray monochromatic free electron laser radiation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 2239-2242.	0.8	1
21	High performance imaging of relativistic soft X-ray harmonics by sub-micron resolution LiF film detectors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 2331-2335.	0.8	7
22	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
23	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
24	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
25	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
26	Low-threshold ablation of dielectrics irradiated by picosecond soft x-ray laser pulses. <i>Applied Physics Letters</i> , 2009, 94, 231107.	3.3	50
27	Demonstration of Flying Mirror with Improved Efficiency. , 2009, , .		6
28	Observation of Low-Frequency Electromagnetic Radiation from Laser-Plasmas. , 2009, , .		2
29	Ion acceleration in the interaction of short pulse laser radiation with the cluster-gas target. , 2009, , .		2
30	Ionography of nanostructures with the use of a laser plasma of cluster targets. <i>JETP Letters</i> , 2009, 89, 485-491.	1.4	9
31	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
32	Soft x-ray source for nanostructure imaging using femtosecond-laser-irradiated clusters. <i>Applied Physics Letters</i> , 2008, 92, 121110.	3.3	52
33	Gas-cluster targets for femtosecond laser interaction: Modeling and optimization. <i>Review of Scientific Instruments</i> , 2006, 77, 083112.	1.3	71
34	Effective temperature and the directional motion of fast ions in a picosecond laser plasma. <i>JETP Letters</i> , 2005, 81, 616-620.	1.4	7
35	High-performance x-ray spectroscopic devices for plasma microsources investigations. <i>Physica Scripta</i> , 1994, 50, 333-338.	2.5	172