A S Boldarev

List of Publications by Year
in descending order

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56 papers	881 citations	516710 16 h-index	477307 29 g-index
57 all docs	57 docs citations	57 times ranked	730 citing authors

#	Article	IF	Citations
1	The Technique of Solving Magnetohydrodynamic Problems in Quasi-Lagrangian Variables. Mathematical Models and Computer Simulations, 2022, 14, 10-18.	0.5	2
2	Different Average Size Evolution of Gaseous Water Cluster in an Expanding Gas Flow. Journal of Cluster Science, 2021, 32, 1223-1228.	3.3	0
3	Schuster â€“ Schwarzschild model for cylindrically symmetric flows of the radiating gas. Keldysh Institute Preprints, 2021, , 1-19.	0.2	0
4	Study of Interaction of Plasma Flows with Magnetic Field During Implosion of Cone-Cylindrical Nested Arrays. Plasma Physics Reports, 2021, 47, 235-250.	0.9	4
5	Thermodynamic models of gas mixtures for computational fluid dynamics. Keldysh Institute Preprints, 2021, , 1-18.	0.2	1
6	Clean source of soft X-ray radiation formed in supersonic Ar gas jets by high-contrast femtosecond laser pulses of relativistic intensity. High Power Laser Science and Engineering, 2020, 8, .	4.6	2
7	Numerical Analysis of the Magnetomechanical Effect in Heating Pipes. Mathematical Models and Computer Simulations, 2020, 12, 926-932.	0.5	0
8	Simulations of a polar molecule (sulfur dioxide) in a supersonic jet. Journal of Applied Physics, 2018, 124, 035902.	2.5	2
9	Simulations of plasma channel formation by knife-like nanosecond laser beam. Keldysh Institute Preprints, 2018, , 1-39.	0.2	1
10	Mathematical modelling of the cluster targets for femtosecondlaser-cluster-driven experiments. Keldysh Institute Preprints, 2018, , 1-22.	0.2	0
11	Laser beam coupling with capillary discharge plasma for laser wakefield acceleration applications. Physics of Plasmas, 2017, 24, .	1.9	24
12	Numerical modelling of the cluster targets for their optimization in femtosecond-laser-cluster-driven experiments. Laser and Particle Beams, 2017, 35, 397-408.	1.0	2
13	On production and asymmetric focusing of flat electron beams using rectangular capillary discharge plasmas. Physics of Plasmas, 2017, 24, 123120.	1.9	6
14	Plasma equilibrium inside various cross-section capillary discharges. Physics of Plasmas, 2017, 24, .	1.9	14
15	The radial dimension of a supersonic jet expansion from conical nozzle. AIP Advances, 2016, 6, .	1.3	6
16	Radiative power and x-ray spectrum numerical estimations for wire array Z-pinches. Journal of Physics: Conference Series, 2015, 653, 012148.	0.4	0
17	Investigation of the on-axis atom number density in the supersonic gas jet under high gas backing pressure by simulation. AIP Advances, 2015, 5, .	1.3	3
18	3D MHD simulation of capillary discharge for the BELLA project. , 2015, , .		0

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19	Methods and results of studies of the radiation spectra of megampere Z-pinches at the angara-5-1 facility. Plasma Physics Reports, 2015, 41, 178-181.	0.9	13
20	Evolution of average cluster size in supsonic cluster jet under high gas backing pressure. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 013601.	0.5	2
21	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
22	Mie scattering from submicron-sized CO_2 clusters formed in a supersonic expansion of a gas mixture. Optics Express, 2013, 21, 20656.	3.4	23
23	Gas X-pinch: The progress, technology and results. EPJ Web of Conferences, 2013, 59, 10001.	0.3	1
24	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
25	Enhanced K_Î± output of Ar and Kr using size optimized cluster target irradiated by high-contrast laser pulses. Optics Express, 2011, 19, 25812.	3.4	32
26	Diagnostics of the early stage of the heating of clusters by a femtosecond laser pulse from the spectra of hollow ions. JETP Letters, 2011, 94, 171.	1.4	13
27	Ion Acceleration in Subcritical Density Plasma via Interaction of Intense Laser Pulse with Cluster-Gas Target. Springer Series in Chemical Physics, 2011, , 225-240.	0.2	0
28	Diagnostics of plasma produced by femtosecond laser pulse impact upon a target with an internal nanostructure. Plasma Physics Reports, 2010, 36, 1261-1268.	0.9	1
29	Short laser pulse interaction with large clusters. Journal of the Korean Physical Society, 2010, 56, 279-286.	0.7	4
30	Submicron ionography of nanostructures using a femtosecond-laser-driven-cluster-based source. Applied Physics Letters, 2009, 95, .	3.3	34
31	Femtosecond-Laser-Driven Cluster-Based Plasma Source for High-Resolution Ionography. , 2009, , .		0
32	Contact and Phase-Contrast Imaging of Nanostructures by Femtosecond-Laser-Driven-Cluster-Based Debris-Free Soft X-Ray Source. , 2009, , .		0
33	Ion acceleration in the interaction of short pulse laser radiation with the cluster-gas target. , 2009, , .		2
34	Conventional and Propagationâ€based Phase Contrast Imaging of Nanostructures Using Femtosecond Laser Driven Cluster Plasma Source and LiF Crystal Soft Xâ€ray Detectors. Contributions To Plasma Physics, 2009, 49, 488-495.	1.1	4
35	Ionography of Submicron Foils and Nanostructures Using Ion Flow Generated in FSâ€Laser Cluster Plasma. Contributions To Plasma Physics, 2009, 49, 507-516.	1.1	3
36	Soft X-ray point source based on a gas pinch. JETP Letters, 2009, 88, 582-585.	1.4	3

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37	Ionography of nanostructures with the use of a laser plasma of cluster targets. JETP Letters, 2009, 89, 485-491.	1.4	9
38	Energy Increase in Multi-MeV Ion Acceleration in the Interaction of a Short Pulse Laser with a Cluster-Gas Target. Physical Review Letters, 2009, 103, 165002.	7.8	170
39	Enhancement of soft X-ray emission from fs laser plasma by using mixture of molecule and atomic gases as cluster jet targets and its application for nanostructure imaging. Journal of Physics: Conference Series, 2009, 163, 012106.	0.4	4
40	Non-adiabatic cluster expansion after ultrashort laser interaction. Laser and Particle Beams, 2008, 26, 69-82.	1.0	16
41	X-ray spectroscopic diagnostics of ultrashort laser-cluster interaction at the stage of the nonadiabatic scattering of clusters. JETP Letters, 2007, 86, 178-183.	1.4	2
42	Gas-cluster targets for femtosecond laser interaction: Modeling and optimization. Review of Scientific Instruments, 2006, 77, 083112.	1.3	71
43	Measurements of the xenon density in a pulsed jet from absorption of monochromatic soft X-rays. Quantum Electronics, 2004, 34, 679-684.	1.0	13
44	Generation of X rays and energetic ions from superintense laser irradiation of micron-sized Ar clusters. Laser and Particle Beams, 2004, 22, 215-220.	1.0	42
45	On the generation of large clusters in forming gas-jet targets for lasers. Technical Physics, 2004, 49, 388-395.	0.7	26
46	X-ray radiation of clusters irradiated by ultrafast high-intensity laser pulses. , 2004, 5196, 234.		4
47	Characterization of argon cluster jets for laser interaction studies. Nuclear Instruments & Methods in Physics Research B, 2003, 205, 324-328.	1.4	11
48	X-ray study of microdroplet plasma formation under the action of superintense laser radiation. JETP Letters, 2003, 78, 115-118.	1.4	29
49	Spatial distribution of cluster size and density in supersonic jets as targets for intense laser pulses. Physical Review A, 2003, 68, .	2.5	129
50	Experimental and numerical studies of structure of cluster targets for femtosecond laser pulses. , 2003, , .		5
51	CaractÃ©risation de jets d'agrÃ©gats d'argon pour l'Ã©tude de l'interaction laser-agrÃ©gats. European Physical Journal Special Topics, 2003, 108, 199-202.	0.2	0
52	Spatially resolved x-ray spectroscopy investigation of femtosecond laser irradiated Ar clusters. Physical Review E, 2002, 65, 036410.	2.1	35
53	On the interaction of femtosecond laser pulses with cluster targets. Journal of Experimental and Theoretical Physics, 2002, 94, 73-83.	0.9	21
54	X-ray spectroscopy diagnostic of a plasma produced by femtosecond laser pulses irradiating a cluster target. Journal of Experimental and Theoretical Physics, 2002, 94, 966-976.	0.9	27

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55	<title>X-ray radiation properties of clusters heated by fs laser pulses</title>. , 2001, , .		12
56	Modeling cluster jets as targets for high-power ultrashort laser pulses. JETP Letters, 2001, 73, 514-518.	1.4	22