

# Mariia Alkhimova

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

226  
citations

933447

10  
h-index

996975

15  
g-index

24  
all docs

24  
docs citations

24  
times ranked

318  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Small Focus on Electron Heating and Proton Acceleration in Ultrarelativistic Laser-Solid Interactions. <i>Physical Review Letters</i> , 2020, 124, 084802.	7.8	36
2	Dynamics of laser-driven heavy-ion acceleration clarified by ion charge states. <i>Physical Review Research</i> , 2020, 2, .	3.6	36
3	Scintillator-based transverse proton beam profiler for laser-plasma ion sources. <i>Review of Scientific Instruments</i> , 2017, 88, 073304.	1.3	27
4	Influence of the electrode system on the emission characteristics of a vacuum spark. <i>Plasma Physics Reports</i> , 2013, 39, 900-909.	0.9	19
5	Using X-ray spectroscopy of relativistic laser plasma interaction to reveal parametric decay instabilities: a modeling tool for astrophysics. <i>Optics Express</i> , 2017, 25, 1958.	3.4	16
6	Demonstration of repetitive energetic proton generation by ultra-intense laser interaction with a tape target. <i>High Energy Density Physics</i> , 2020, 37, 100847.	1.5	15
7	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
8	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
9	The source of X-rays and high-charged ions based on moderate power vacuum discharge with laser triggering. <i>Nukleonika</i> , 2015, 60, 221-227.	0.8	11
10	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
11	Accounting for the instrument function of crystal spectrometers operating in many reflection orders in the diagnostics of laser plasma from its continuum spectrum. <i>Quantum Electronics</i> , 2018, 48, 749-754.	1.0	10
12	The effect of laser contrast on generation of highly charged Fe ions by ultra-intense femtosecond laser pulses. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	2.2	5
13	Determination of spectral reflectivity of spherically bent mica crystals applied for diagnostics of relativistic laser plasmas. <i>Journal of Physics: Conference Series</i> , 2016, 774, 012115.	0.4	3
14	X-ray spectroscopy of super-intense laser-produced plasmas for the study of nonlinear processes. Comparison with PIC simulations. <i>Journal of Physics: Conference Series</i> , 2017, 810, 012004.	0.4	3
15	X-ray emission from stainless steel foils irradiated by femtosecond petawatt laser pulses. <i>Journal of Physics: Conference Series</i> , 2018, 946, 012018.	0.4	3
16	High contrast high intensity petawatt J-KAREN-P laser facility at QST. <i>Proceedings of SPIE</i> , 2017, , .	0.8	2
17	Clean source of soft X-ray radiation formed in supersonic Ar gas jets by high-contrast femtosecond laser pulses of relativistic intensity. <i>High Power Laser Science and Engineering</i> , 2020, 8, .	4.6	2
18	Analysis of Ly $\alpha$ Dielectronic Satellites to Characterize Temporal Profile of Intense Femtosecond Laser Pulses. <i>Crystals</i> , 2021, 11, 130.	2.2	2

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19	Determination of the reflectivity curve of a spherically bent mica crystal used to diagnose X-ray radiation of relativistic laser plasma. Bulletin of the Lebedev Physics Institute, 2016, 43, 291-294.	0.6	1
20	Ultra-intense X-Ray Radiation Photopumping of Exotic States of Matter by Relativistic Laserâ€“Plasma in the Radiation-Dominated Kinetic Regime (RDKR). Springer Proceedings in Physics, 2018, , 149-158.	0.2	0
21	A laser-produced plasma X-ray source for contact microscopy. Journal of Instrumentation, 2019, 14, C03007-C03007.	1.2	0
22	A Soft X-Ray Radiation Source Formed in Supersonic Argon Gas Jets under the Action of High-Contrast Femtosecond Laser Pulses of Relativistic Intensity. Technical Physics Letters, 2020, 46, 275-278.	0.7	0
23	Investigation of plasma states formed under the interaction of high-power laser pulses with wire-shape Alâ€“Cu target. Journal of Physics: Conference Series, 2021, 1787, 012028.	0.4	0
24	Properties of laser beam passed through cluster plasma studied with diffraction pattern method. Journal of Physics: Conference Series, 2020, 1556, 012007.	0.4	0