

# Mariia Alkhimova

## List of Publications by Year in descending order

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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	Analysis of Ly $\alpha$ Dielectronic Satellites to Characterize Temporal Profile of Intense Femtosecond Laser Pulses. Crystals, 2021, 11, 130.	2.2	2
2	Investigation of plasma states formed under the interaction of high-power laser pulses with wire-shape Al-Cu target. Journal of Physics: Conference Series, 2021, 1787, 012028.	0.4	0
3	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
4	Demonstration of repetitive energetic proton generation by ultra-intense laser interaction with a tape target. High Energy Density Physics, 2020, 37, 100847.	1.5	15
5	Effect of Small Focus on Electron Heating and Proton Acceleration in Ultrarelativistic Laser-Solid Interactions. Physical Review Letters, 2020, 124, 084802.	7.8	36
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	Dynamics of laser-driven heavy-ion acceleration clarified by ion charge states. Physical Review Research, 2020, 2, .	3.6	36
8	Properties of laser beam passed through cluster plasma studied with diffraction pattern method. Journal of Physics: Conference Series, 2020, 1556, 012007.	0.4	0
9	A laser-produced plasma X-ray source for contact microscopy. Journal of Instrumentation, 2019, 14, C03007-C03007.	1.2	0
10	Ultra-intense X-Ray Radiation Photopumping of Exotic States of Matter by Relativistic Laser-Plasma in the Radiation-Dominated Kinetic Regime (RDKR). Springer Proceedings in Physics, 2018, , 149-158.	0.2	0
11	X-ray emission from stainless steel foils irradiated by femtosecond petawatt laser pulses. Journal of Physics: Conference Series, 2018, 946, 012018.	0.4	3
12	Accounting for the instrument function of crystal spectrometers operating in many reflection orders in the diagnostics of laser plasma from its continuum spectrum. Quantum Electronics, 2018, 48, 749-754.	1.0	10
13	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
14	High contrast high intensity petawatt J-KAREN-P laser facility at QST. Proceedings of SPIE, 2017, , .	0.8	2
15	Scintillator-based transverse proton beam profiler for laser-plasma ion sources. Review of Scientific Instruments, 2017, 88, 073304.	1.3	27
16	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
17	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
18	Using X-ray spectroscopy of relativistic laser plasma interaction to reveal parametric decay instabilities: a modeling tool for astrophysics. Optics Express, 2017, 25, 1958.	3.4	16

#	ARTICLE	IF	CITATIONS
19	X-ray spectroscopy of super-intense laser-produced plasmas for the study of nonlinear processes. Comparison with PIC simulations. Journal of Physics: Conference Series, 2017, 810, 012004.	0.4	3
20	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
21	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
22	Determination of spectral reflectivity of spherically bent mica crystals applied for diagnostics of relativistic laser plasmas. Journal of Physics: Conference Series, 2016, 774, 012115.	0.4	3
23	The source of X-rays and high-charged ions based on moderate power vacuum discharge with laser triggering. Nukleonika, 2015, 60, 221-227.	0.8	11
24	Influence of the electrode system on the emission characteristics of a vacuum spark. Plasma Physics Reports, 2013, 39, 900-909.	0.9	19