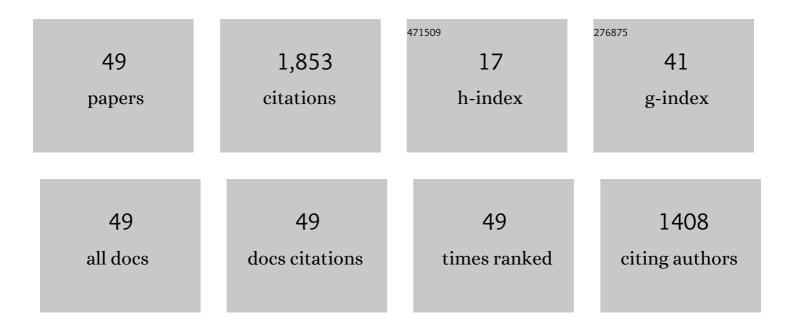
Alexander S Pirozhkov

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Review of laser-driven ion sources and their applications. Reports on Progress in Physics, 2012, 75, 056401.	20.1	783
2	Relativistic mirrors in plasmas. Novel results and perspectives. Physics-Uspekhi, 2013, 56, 429-464.	2.2	112
3	High-contrast high-intensity repetitive petawatt laser. Optics Letters, 2018, 43, 2595.	3.3	104
4	Proton acceleration to 40ÂMeV using a high intensity, high contrast optical parametric chirped-pulse amplification/Ti:sapphire hybrid laser system. Optics Letters, 2012, 37, 2868.	3.3	100
5	Attosecond pulse generation in the relativistic regime of the laser-foil interaction: The sliding mirror model. Physics of Plasmas, 2006, 13, 013107.	1.9	82
6	Approaching the diffraction-limited, bandwidth-limited Petawatt. Optics Express, 2017, 25, 20486.	3.4	78
7	Laser prepulse dependency of proton-energy distributions in ultraintense laser-foil interactions with an online time-of-flight technique. Physics of Plasmas, 2007, 14, 043104.	1.9	65
8	High-Contrast, High-Intensity Petawatt-Class Laser and Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 232-249.	2.9	60
9	Prepulse and amplified spontaneous emission effects on the interaction of a petawatt class laser with thin solid targets. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 745, 150-163.	1.6	46
10	Temporal contrast enhancement of petawatt-class laser pulses. Optics Letters, 2012, 37, 3363.	3.3	44
11	Generation of high-energy attosecond pulses by the relativistic-irradiance short laser pulse interacting with a thin foil. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 349, 256-263.	2.1	35
12	Ultrahigh-contrast kilojoule-class petawatt LFEX laser using a plasma mirror. Applied Optics, 2016, 55, 6850.	2.1	30
13	Possibility of measuring photon-photon scattering via relativistic mirrors. Physical Review A, 2012, 86,	2.5	29
14	High order harmonics from relativistic electron spikes. New Journal of Physics, 2014, 16, 093003.	2.9	26
15	Efficient generation of Xe K-shell x rays by high-contrast interaction with submicrometer clusters. Optics Letters, 2011, 36, 1614.	3.3	22
16	On the breaking of a plasma wave in a thermal plasma. I. The structure of the density singularity. Physics of Plasmas, 2012, 19, .	1.9	22
17	High-Quality Laser-Produced Proton Beam Realized by the Application of a Synchronous RF Electric Field. Japanese Journal of Applied Physics, 2007, 46, L717-L720.	1.5	20
18	On the breaking of a plasma wave in a thermal plasma. II. Electromagnetic wave interaction with the breaking plasma wave. Physics of Plasmas, 2012, 19, 113103.	1.9	17

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19	Coherent, Short-Pulse X-ray Generation via Relativistic Flying Mirrors. Quantum Beam Science, 2018, 2, 9.	1.2	17
20	Ultra-Intense, High Spatio-Temporal Quality Petawatt-Class Laser System and Applications. Applied Sciences (Switzerland), 2013, 3, 214-250.	2.5	15
21	Experimental investigation on the temporal contrast of pre-pulses by post-pulses in a petawatt laser facility. Optics Letters, 2020, 45, 1100.	3.3	15
22	Controlling the generation of high frequency electromagnetic pulses with relativistic flying mirrors using an inhomogeneous plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1114-1118.	2.1	13
23	Enhancement of pre-pulse and picosecond pedestal contrast of the petawatt J-KAREN-P laser. High Power Laser Science and Engineering, 2021, 9, .	4.6	13
24	Relativisitcally upshifted higher harmonic generation via relativistic flying mirrors. Plasma Physics and Controlled Fusion, 2018, 60, 074007.	2.1	12
25	Petawatt Femtosecond Laser Pulses from Titanium-Doped Sapphire Crystal. Crystals, 2020, 10, 783.	2.2	11
26	Radial focusing and energy compression of a laser-produced proton beam by a synchronous rf field. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	10
27	Status and progress of the J-KAREN-P high intensity laser system at QST. High Energy Density Physics, 2020, 36, 100771.	1.5	9
28	Optical probing of relativistic plasma singularities. Physics of Plasmas, 2020, 27, .	1.9	8
29	Extreme ultraviolet diagnostics of preformed plasma in laser-driven proton acceleration experiments. Review of Scientific Instruments, 2006, 77, 123302.	1.3	7
30	Characteristics of a laser-produced proton beam improved by a synchronous RF field. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 599, 15-19.	1.6	7
31	Experimental and computational characterization of hydrodynamic expansion of a preformed plasma from thin-foil target for laser-driven proton acceleration. Journal of Plasma Physics, 2009, 75, 609-617.	2.1	6
32	Demonstration of Flying Mirror with Improved Efficiency. , 2009, , .		6
33	Laser Requirements for High-Order Harmonic Generation by Relativistic Plasma Singularities. Quantum Beam Science, 2018, 2, 7.	1.2	6
34	Simultaneous Generation of UV Harmonics and Protons From a Thin-Foil Target With a High-Intensity Laser. IEEE Transactions on Plasma Science, 2008, 36, 1812-1816.	1.3	4
35	Relativistic flying laser focus by a laser-produced parabolic plasma mirror. Physical Review A, 2021, 104, .	2.5	4
36	Development of Laser-driven Proton Source Toward Its Applications. Journal of the Optical Society of Korea, 2009, 13, 37-41.	0.6	3

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#	Article	IF	CITATIONS
37	Relativistic flying forcibly oscillating reflective diffraction grating. Physical Review E, 2020, 102, 053202.	2.1	3
38	High contrast high intensity petawatt J-KAREN-P laser facility at QST. Proceedings of SPIE, 2017, , .	0.8	2
39	Analysis of Lyα Dielectronic Satellites to Characterize Temporal Profile of Intense Femtosecond Laser Pulses. Crystals, 2021, 11, 130.	2.2	2
40	Intensity Scalings of Attosecond Pulse Generation by the Relativistic-irradiance Laser Pulses. Springer Series in Optical Sciences, 2007, , 265-272.	0.7	2
41	Method of Observing the Spot Where Full-Power Counter-Propagating Laser Pulses Collide in Plasma Media. Applied Physics Express, 2010, 3, 016101.	2.4	2
42	Characterization of Thin-Foil Preformed Plasmas for High-Intensity Laser Plasma Interactions. Acta Physica Hungarica A Heavy Ion Physics, 2006, 26, 327-333.	0.4	1
43	High-intensity laser-driven particle and electromagnetic wave sources for science, industry, and medicine. Frontiers of Optoelectronics in China, 2009, 2, 299-303.	0.2	0
44	High-order harmonics from relativistic laser plasmas. Proceedings of SPIE, 2015, , .	0.8	0
45	Recent Advances on the J-KAREN laser upgrade. , 2015, , .		0
46	Improvement of the temporal contrast of pre-pulses by post-pulses in a petawatt J-KAREN-P laser facility. , 2021, , .		0
47	Ultra-strong attosecond laser focus produced by a relativistic-flying parabolic mirror. , 2021, , .		0
48	Relativistic Flying Mirrors as a Compact Source of Coherent Short-Wavelength Radiation. , 2020, , .		0
49	Construction of a Magnetic Bottle Electron Spectrometer for Electron Energy Measurement in BISER X-Rays and Xe Interaction. Plasma and Fusion Research, 2022, 17, 2406020-2406020.	0.7	0