

Evgeny Nerush

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

36
papers

1,024
citations

14
h-index

31
g-index

42
ext. papers

1,193
ext. citations

2.7
avg, IF

4.31
L-index

#	Paper	IF	Citations
36	Reconstruction of electron spectrum after magnetic spectrometer with weak magnet. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022 , 1025, 166097	1.2	0
35	Beamstrahlung-enhanced disruption in beam-beam interaction. <i>New Journal of Physics</i> , 2021 , 23, 103040	2.9	0
34	Hydrodynamical model of QED cascade expansion in an extremely strong laser pulse. <i>Matter and Radiation at Extremes</i> , 2021 , 6, 034401	4.7	4
33	Using machine-learning methods for analysing the results of numerical simulation of laser-plasma acceleration of electrons. <i>Quantum Electronics</i> , 2021 , 51, 854-860	1.8	1
32	Effect of electron-positron plasma production on the generation of a magnetic field in laser-plasma interactions. <i>Quantum Electronics</i> , 2021 , 51, 861-865	1.8	1
31	Quasiclassical approach to synergic synchrotron-Cherenkov radiation in polarized vacuum. <i>New Journal of Physics</i> , 2020 , 22, 093072	2.9	1
30	Efficient gamma-ray source from solid-state microstructures irradiated by relativistic laser pulses. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 074007	2	8
29	Global constant field approximation for radiation reaction in collision of high-intensity laser pulse with electron beam. <i>Plasma Physics and Controlled Fusion</i> , 2019 , 61, 074003	2	3
28	Laser-driven vacuum breakdown waves. <i>Scientific Reports</i> , 2019 , 9, 11133	4.9	6
27	Probing non-perturbative QED with electron-laser collisions. <i>Scientific Reports</i> , 2019 , 9, 9407	4.9	17
26	Asymptotic electron motion in the strongly-radiation-dominated regime. <i>Physical Review A</i> , 2018 , 98,	2.6	5
25	Effect of a prepulse on the efficiency of gamma-ray generation by a relativistic laser pulse obliquely incident on a planar target. <i>Quantum Electronics</i> , 2017 , 47, 206-211	1.8	2
24	Weibel Instability in Hot Plasma Flows with the Production of Gamma-Rays and Electron-Positron Pairs. <i>Astrophysical Journal</i> , 2017 , 851, 129	4.7	7
23	Near-surface electron acceleration during intense laser-solid interaction in the grazing incidence regime. <i>Physics of Plasmas</i> , 2017 , 24, 123115	2.1	9
22	Efficient gamma-ray generation by ultra-intense laser pulses obliquely incident on a planar plasma layer. <i>Quantum Electronics</i> , 2016 , 46, 299-304	1.8	5
21	Formation and dynamics of a plasma in superstrong laser fields including radiative and quantum electrodynamics effects. <i>JETP Letters</i> , 2016 , 104, 883-891	1.2	2
20	Production and dynamics of positrons in ultrahigh intensity laser-foil interactions. <i>Physics of Plasmas</i> , 2016 , 23, 093119	2.1	26

19	Laser-driven hole boring and gamma-ray emission in high-density plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2015 , 57, 035007	2	30
18	Optimized multibeam configuration for observation of QED cascades. <i>Physical Review A</i> , 2015 , 92,	2.6	52
17	Incoherent synchrotron emission of laser-driven plasma edge. <i>Physics of Plasmas</i> , 2015 , 22, 123119	2.1	11
16	Energy partition, γ -ray emission, and radiation reaction in the near-quantum electrodynamical regime of laser-plasma interaction. <i>Physics of Plasmas</i> , 2014 , 21, 023109	2.1	65
15	Near QED regime of laser interaction with overdense plasmas. <i>European Physical Journal: Special Topics</i> , 2014 , 223, 1069-1082	2.3	12
14	Effect of laser polarization on quantum electrodynamical cascading. <i>Physics of Plasmas</i> , 2014 , 21, 013105	2.1	50
13	Gamma-ray generation in ultrahigh-intensity laser-foil interactions. <i>Physics of Plasmas</i> , 2014 , 21, 013109	2.1	28
12	Radiative damping in plasma-based accelerators. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012 , 15,		11
11	Laser field absorption in self-generated electron-positron pair plasma. <i>Physical Review Letters</i> , 2011 , 106, 035001	7.4	213
10	Fast electron generation using PW-class PEARL facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 653, 35-41	1.2	14
9	Kinetic modelling of quantum effects in laser-beam interaction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 653, 7-10	1.2	10
8	QED cascades induced by circularly polarized laser fields. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011 , 14,		212
7	Two-screen single-shot electron spectrometer for laser wakefield accelerated electron beams. <i>Review of Scientific Instruments</i> , 2011 , 82, 043304	1.7	13
6	Analytical model for electromagnetic cascades in rotating electric field. <i>Physics of Plasmas</i> , 2011 , 18, 083107	2.1	23
5	A multidimensional theory for electron trapping by a plasma wake generated in the bubble regime. <i>New Journal of Physics</i> , 2010 , 12, 045009	2.9	25
4	Electron self-injection in multidimensional relativistic-plasma wake fields. <i>Physical Review Letters</i> , 2009 , 103, 175003	7.4	80
3	Carrier-envelope phase effects in plasma-based electron acceleration with few-cycle laser pulses. <i>Physical Review Letters</i> , 2009 , 103, 035001	7.4	38
2	Radiation emission by extreme relativistic electrons and pair production by hard photons in a strong plasma wakefield. <i>Physical Review E</i> , 2007 , 75, 057401	2.4	20

1 Radiative losses in plasma accelerators. *Journal of Experimental and Theoretical Physics*, **2006**, 103, 800-807 5