

Evgeny Nerush

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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	Laser field absorption in self-generated electron-positron pair plasma. <i>Physical Review Letters</i> , 2011 , 106, 035001	7.4	213
35	QED cascades induced by circularly polarized laser fields. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011 , 14,		212
34	Electron self-injection in multidimensional relativistic-plasma wake fields. <i>Physical Review Letters</i> , 2009 , 103, 175003	7.4	80
33	Energy partition, γ -ray emission, and radiation reaction in the near-quantum electrodynamic regime of laser-plasma interaction. <i>Physics of Plasmas</i> , 2014 , 21, 023109	2.1	65
32	Optimized multibeam configuration for observation of QED cascades. <i>Physical Review A</i> , 2015 , 92,	2.6	52
31	Effect of laser polarization on quantum electrodynamic cascading. <i>Physics of Plasmas</i> , 2014 , 21, 013105.1	2.1	50
30	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
29	Laser-driven hole boring and gamma-ray emission in high-density plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2015 , 57, 035007	2	30
28	Gamma-ray generation in ultrahigh-intensity laser-foil interactions. <i>Physics of Plasmas</i> , 2014 , 21, 013109	2.1	28
27	Production and dynamics of positrons in ultrahigh intensity laser-foil interactions. <i>Physics of Plasmas</i> , 2016 , 23, 093119	2.1	26
26	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
25	Analytical model for electromagnetic cascades in rotating electric field. <i>Physics of Plasmas</i> , 2011 , 18, 083107	2.1	23
24	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
23	Probing non-perturbative QED with electron-laser collisions. <i>Scientific Reports</i> , 2019 , 9, 9407	4.9	17
22	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
21	Two-screen single-shot electron spectrometer for laser wakefield accelerated electron beams. <i>Review of Scientific Instruments</i> , 2011 , 82, 043304	1.7	13
20	Near QED regime of laser interaction with overdense plasmas. <i>European Physical Journal: Special Topics</i> , 2014 , 223, 1069-1082	2.3	12

19	Incoherent synchrotron emission of laser-driven plasma edge. <i>Physics of Plasmas</i> , 2015 , 22, 123119	2.1	11
18	Radiative damping in plasma-based accelerators. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2012 , 15,		11
17	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
16	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
15	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
14	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
13	Laser-driven vacuum breakdown waves. <i>Scientific Reports</i> , 2019 , 9, 11133	4.9	6
12	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
11	Radiative losses in plasma accelerators. <i>Journal of Experimental and Theoretical Physics</i> , 2006 , 103, 800-807		5
10	Asymptotic electron motion in the strongly-radiation-dominated regime. <i>Physical Review A</i> , 2018 , 98,	2.6	5
9	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
8	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
7	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
6	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
5	Quasiclassical approach to synergic synchrotron-Cherenkov radiation in polarized vacuum. <i>New Journal of Physics</i> , 2020 , 22, 093072	2.9	1
4	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
3	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
2	Beamstrahlung-enhanced disruption in beam-beam interaction. <i>New Journal of Physics</i> , 2021 , 23, 103040	2.9	0

- 1 Reconstruction of electron spectrum after magnetic spectrometer with weak magnet. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2022**, 1025, 166097 1.2