

Vladimir Ivanov

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.

38
papers

419
citations

13
h-index

18
g-index

39
ext. papers

464
ext. citations

2.5
avg, IF

3.02
L-index

#	Paper	IF	Citations
38	Development and integration of photonic Doppler velocimetry as a diagnostic for radiation driven experiments on the Z-machine.. <i>Review of Scientific Instruments</i> , 2022 , 93, 043502	1.7	0
37	Generation of strong magnetic fields for magnetized plasma experiments at the 1-MA pulsed power machine. <i>Matter and Radiation at Extremes</i> , 2021 , 6, 046901	4.7	2
36	Study of laser-driven magnetic fields with a continuous wave Faraday rotation diagnostic. <i>Physics of Plasmas</i> , 2020 , 27, 033102	2.1	3
35	Modeling magnetic confinement of laser-generated plasma in cylindrical geometry leading to disk-shaped structures. <i>Physics of Plasmas</i> , 2020 , 27, 022116	2.1	6
34	Study of laser produced plasma in a longitudinal magnetic field. <i>Physics of Plasmas</i> , 2019 , 26, 062707	2.1	9
33	Investigation of wire-array Z-pinchs by laser probing diagnostics. <i>Matter and Radiation at Extremes</i> , 2019 , 4, 017401	4.7	3
32	Significant change in threshold for plasma formation and evolution with small variation in copper alloys driven by a mega-ampere current pulse. <i>Physics of Plasmas</i> , 2019 , 26, 042708	2.1	8
31	Development of broadband x-ray radiography for diagnosing magnetically driven cylindrically compressed matter. <i>Physics of Plasmas</i> , 2019 , 26, 083104	2.1	3
30	Experimental platform for investigations of high-intensity laser plasma interactions in the magnetic field of a pulsed power generator. <i>Review of Scientific Instruments</i> , 2018 , 89, 033504	1.7	6
29	Study of Implosion and Precursor Dynamics and Collapse in Wire Arrays With End-On Laser Diagnostics. <i>IEEE Transactions on Plasma Science</i> , 2018 , 46, 3789-3793	1.3	0
28	Generation of disc-like plasma from laser-matter interaction in the presence of a strong external magnetic field. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 085008	2	13
27	Note: Infrared laser diagnostics for deuterium gas puff Z pinches. <i>Review of Scientific Instruments</i> , 2017 , 88, 076111	1.7	1
26	Observation of impact of eddy current on laser targets in a strong fast rising magnetic field. <i>Physics of Plasmas</i> , 2017 , 24, 112707	2.1	4
25	Four-color laser diagnostics for Z-pinch and laser-produced plasma. <i>Applied Optics</i> , 2016 , 55, 498-501	0.2	15
24	Study of magnetic fields and current in the Z pinch at stagnation. <i>Physics of Plasmas</i> , 2015 , 22, 092710	2.1	6
23	Study of ablation and implosion stages in wire arrays using coupled ultraviolet and X-ray probing diagnostics. <i>Physics of Plasmas</i> , 2015 , 22, 112702	2.1	3
22	UV Laser-Probing Diagnostics for the Dense Z Pinch. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 1153-1162	1.62	10

21	Study of micro-pinches in wire-array Z pinches. <i>Physics of Plasmas</i> , 2013 , 20, 112703	2.1	10
20	Current redistribution and generation of kinetic energy in the stagnated Z pinch. <i>Physical Review E</i> , 2013 , 88, 013108	2.4	10
19	High-Resolution UV Laser Diagnostics on the 1-MA Zebra Generator. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 3378-3383	1.3	6
18	Study of the precursor and non-precursor implosion regimes in wire array Z-pinches. <i>Physics of Plasmas</i> , 2012 , 19, 092704	2.1	4
17	Investigation of plasma instabilities in the stagnated Z pinch. <i>Physical Review E</i> , 2012 , 86, 046403	2.4	16
16	Study of the internal structure and small-scale instabilities in the dense Z pinch. <i>Physical Review Letters</i> , 2011 , 107, 165002	7.4	20
15	Fountain effect of laser-driven relativistic electrons inside a solid dielectric. <i>Applied Physics Letters</i> , 2011 , 99, 131501	3.4	9
14	Measurement of the ionization state and electron temperature of plasma during the ablation stage of a wire-array Z pinch using absorption spectroscopy. <i>Physical Review Letters</i> , 2011 , 106, 225005	7.4	7
13	Development of UV Laser Probing Diagnostics for 1-MA Z-Pinches. <i>IEEE Transactions on Plasma Science</i> , 2010 , 38, 574-580	1.3	13
12	Study of transparent and nontransparent regimes of implosion in star wire arrays. <i>Physics of Plasmas</i> , 2010 , 17, 102702	2.1	11
11	Development of the 50 TW laser for joint experiments with 1 MA z-pinches. <i>Journal of Physics: Conference Series</i> , 2010 , 244, 032013	0.3	21
10	Implosion dynamics and x-ray generation in small-diameter wire-array Z pinches. <i>Physical Review E</i> , 2009 , 79, 056404	2.4	25
9	. <i>IEEE Transactions on Plasma Science</i> , 2008 , 36, 62-69	1.3	15
8	Mitigation of the plasma-implosion inhomogeneity in starlike wire-array Z pinches. <i>Physical Review Letters</i> , 2008 , 100, 025004	7.4	25
7	Experimental Study of the Dynamics of Large- and Small-Scale Structures in the Plasma Column of Wire Array Z-Pinches. <i>IEEE Transactions on Plasma Science</i> , 2007 , 35, 1170-1177	1.3	14
6	Effect of current prepulse on wire array initiation on the 1-MA ZEBRA accelerator. <i>Physics of Plasmas</i> , 2007 , 14, 052704	2.1	20
5	Dynamics of mass transport and magnetic fields in low-wire-number-array Z pinches. <i>Physical Review Letters</i> , 2006 , 97, 125001	7.4	38
4	Investigation of regimes of wire array implosion on the 1MA Zebra accelerator. <i>Physics of Plasmas</i> , 2006 , 13, 012704	2.1	20

- 3 Implosion Dynamics in Conical Wire Array Z-pinches. *AIP Conference Proceedings*, **2006**, 4
- 2 Laboratory Simulation of Magnetospheric Plasma Shocks. *Astrophysics and Space Science*, **2005**, 298, 299-303 8
- 1 Amplified spontaneous emission in a Ti:sapphire regenerative amplifier. *Applied Optics*, **2003**, 42, 7231-41.7 31