

Vladimir Ivanov

List of Publications by Year in descending order

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all docs

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Development and integration of photonic Doppler velocimetry as a diagnostic for radiation driven experiments on the Z-machine. Review of Scientific Instruments, 2022, 93, 043502.	1.3	2
2	Generation of strong magnetic fields for magnetized plasma experiments at the 1-MA pulsed power machine. Matter and Radiation at Extremes, 2021, 6, .	3.9	12
3	Study of laser-driven magnetic fields with a continuous wave Faraday rotation diagnostic. Physics of Plasmas, 2020, 27, 033102.	1.9	6
4	Modeling magnetic confinement of laser-generated plasma in cylindrical geometry leading to disk-shaped structures. Physics of Plasmas, 2020, 27, .	1.9	8
5	Development of broadband x-ray radiography for diagnosing magnetically driven cylindrically compressed matter. Physics of Plasmas, 2019, 26, 083104.	1.9	5
6	Study of laser produced plasma in a longitudinal magnetic field. Physics of Plasmas, 2019, 26, .	1.9	12
7	Investigation of wire-array Z-pinches by laser probing diagnostics. Matter and Radiation at Extremes, 2019, 4, .	3.9	7
8	Significant change in threshold for plasma formation and evolution with small variation in copper alloys driven by a mega-ampere current pulse. Physics of Plasmas, 2019, 26, .	1.9	11
9	Experimental platform for investigations of high-intensity laser plasma interactions in the magnetic field of a pulsed power generator. Review of Scientific Instruments, 2018, 89, 033504.	1.3	7
10	Study of Implosion and Precursor Dynamics and Collapse in Wire Arrays With End-On Laser Diagnostics. IEEE Transactions on Plasma Science, 2018, 46, 3789-3793.	1.3	1
11	Generation of disc-like plasma from laser-matter interaction in the presence of a strong external magnetic field. Plasma Physics and Controlled Fusion, 2017, 59, 085008.	2.1	17
12	Note: Infrared laser diagnostics for deuterium gas puff Z pinches. Review of Scientific Instruments, 2017, 88, 076111.	1.3	1
13	Observation of impact of eddy current on laser targets in a strong fast rising magnetic field. Physics of Plasmas, 2017, 24, .	1.9	6
14	Four-color laser diagnostics for Z-pinch and laser-produced plasma. Applied Optics, 2016, 55, 498.	2.1	19
15	Study of ablation and implosion stages in wire arrays using coupled ultraviolet and X-ray probing diagnostics. Physics of Plasmas, 2015, 22, .	1.9	3
16	Study of magnetic fields and current in the Z pinch at stagnation. Physics of Plasmas, 2015, 22, .	1.9	13
17	UV Laser-Probing Diagnostics for the Dense Z Pinch. IEEE Transactions on Plasma Science, 2014, 42, 1153-1162.	1.3	12
18	Study of micro-pinches in wire-array Z pinches. Physics of Plasmas, 2013, 20, .	1.9	11

#	ARTICLE	IF	CITATIONS
19	Current redistribution and generation of kinetic energy in the stagnated Z pinch. Physical Review E, 2013, 88, 013108.	2.1	11
20	Study of the precursor and non-precursor implosion regimes in wire array Z-pinch. Physics of Plasmas, 2012, 19, .	1.9	4
21	Investigation of plasma instabilities in the stagnated Z pinch. Physical Review E, 2012, 86, 046403.	2.1	18
22	High-Resolution UV Laser Diagnostics on the 1-MA Zebra Generator. IEEE Transactions on Plasma Science, 2012, 40, 3378-3383.	1.3	6
23	Study of the Internal Structure and Small-Scale Instabilities in the Dense Z Pinch. Physical Review Letters, 2011, 107, 165002.	7.8	22
24	Fountain effect of laser-driven relativistic electrons inside a solid dielectric. Applied Physics Letters, 2011, 99, 131501.	3.3	10
25	Measurement of the Ionization State and Electron Temperature of Plasma during the Ablation Stage of a Wire-Array Z Pinch Using Absorption Spectroscopy. Physical Review Letters, 2011, 106, 225005.	7.8	8
26	Development of the 50 TW laser for joint experiments with 1 MA z-pinch. Journal of Physics: Conference Series, 2010, 244, 032013.	0.4	21
27	Development of UV Laser Probing Diagnostics for 1-MA Z-Pinch. IEEE Transactions on Plasma Science, 2010, 38, 574-580.	1.3	15
28	Study of transparent and nontransparent regimes of implosion in star wire arrays. Physics of Plasmas, 2010, 17, .	1.9	11
29	Implosion dynamics and x-ray generation in small-diameter wire-array Z pinches. Physical Review E, 2009, 79, 056404.	2.1	28
30	A Zebra Experiment to Study Plasma Formation by Megagauss Fields. IEEE Transactions on Plasma Science, 2008, 36, 62-69.	1.3	22
31	Mitigation of the Plasma-Implosion Inhomogeneity in Starlike Wire-Array Z Pinches. Physical Review Letters, 2008, 100, 025004.	7.8	28
32	Experimental Study of the Dynamics of Large- and Small-Scale Structures in the Plasma Column of Wire Array Z -Pinches. IEEE Transactions on Plasma Science, 2007, 35, 1170-1177.	1.3	14
33	Effect of current prepulse on wire array initiation on the 1-MA ZEBRA accelerator. Physics of Plasmas, 2007, 14, 052704.	1.9	20
34	Implosion Dynamics in Conical Wire Array Z-pinch. AIP Conference Proceedings, 2006, , .	0.4	4
35	Seeded Perturbations in Wire Array Z-Pinch. AIP Conference Proceedings, 2006, , .	0.4	1
36	Dynamics of Mass Transport and Magnetic Fields in Low-Wire-Number-Array Z Pinches. Physical Review Letters, 2006, 97, 125001.	7.8	39

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37	Investigation of regimes of wire array implosion on the 1MA Zebra accelerator. Physics of Plasmas, 2006, 13, 012704.	1.9	21
38	Laboratory Simulation of Magnetospheric Plasma Shocks. Astrophysics and Space Science, 2005, 298, 299-303.	1.4	9
39	Amplified spontaneous emission in a Ti:sapphire regenerative amplifier. Applied Optics, 2003, 42, 7231.	2.1	37