Sergey Polosatkin

List of Publications by Year
in descending order

50	603	567281 15	642732 23
papers	citations	h-index	g-index

50	50	50	415
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Test results of boron carbide ceramics for ITER port protection. Fusion Engineering and Design, 2021, 168, 112426.	1.9	6
2	Qualification of Boron Carbide Ceramics for Use in ITER Ports. IEEE Transactions on Plasma Science, 2020, 48, 1474-1478.	1.3	16
3	Dynamics and Spectral Composition of Subterahertz Emission From Plasma Column Due to Two-Stream Instability of Strong Relativistic Electron Beam. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 245-252.	3.1	36
4	Fast neutron flux analyzer with real-time digital pulse shape discrimination. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 827, 13-17.	1.6	13
5	The study of neutron burst shape of a neutron tube driven by dispenser cathode. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 828, 91-96.	1.6	3
6	Study of the impurity composition and effective plasma charge in the GOL-3 facility. Plasma Physics Reports, 2015, 41, 529-534.	0.9	10
7	MM-wave emission by magnetized plasma during sub-relativistic electron beam relaxation. Physics of Plasmas, 2015, 22, .	1.9	13
8	Two Ways for High-Power Generation of Subterahertz Radiation by Usage of Strong Relativistic Electron Beams. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 478-485.	3.1	14
9	Modeling of Deuterium Ionization and Extraction From an Ion Source Driven by Heated Cathode. IEEE Transactions on Plasma Science, 2015, 43, 3856-3867.	1.3	2
10	High-power terahertz emission at plasma and double plasma frequencies during REB-plasma interaction. , 2015, , .		0
11	Plasma system of the GOL-3T facility. Plasma Physics Reports, 2015, 41, 863-872.	0.9	16
12	Overview of results from the MST reversed field pinch experiment. Nuclear Fusion, 2015, 55, 104006.	3.5	16
13	Calculation of cracking under pulsed heat loads in tungsten manufactured according to ITER specifications. Journal of Nuclear Materials, 2015, 467, 165-171.	2.7	24
14	Measurement of the ionization yield of nuclear recoils in liquid argon at 80 and 233 keV. Europhysics Letters, 2014, 108, 12001.	2.0	14
15	Study of sublevel population mixing effects in hydrogen neutral beams. Review of Scientific Instruments, 2014, 85, 02A707.	1.3	2
16	Observation of spectral composition and polarization of sub-terahertz emission from dense plasma during relativistic electron beamâ€“plasma interaction. Physics of Plasmas, 2014, 21, 082106.	1.9	37
17	Creation of a long magnetized plasma column in a metal chamber. Plasma Physics Reports, 2014, 40, 161-177.	0.9	13
18	Generation of High-Power Sub-THz Waves in Magnetized Turbulent Electron Beam Plasmas. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 81-90.	2.2	30

#	Article	IF	Citations
19	Nuclear recoil detection in liquid argon using a two-phase CRAD and DD neutron generator. Journal of Instrumentation, 2014, 9, C08020-C08020.	1.2	1
20	On calibration of the response of liquid argon detectors to nuclear recoils using inelastic neutron scattering on40Ar. Journal of Instrumentation, 2014, 9, P10017-P10017.	1.2	2
21	Multi-purpose fast neutron spectrum analyzer with real-time signal processing. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 720, 23-25.	1.6	6
22	Yield determination for a titanium neutron-forming target. Atomic Energy, 2013, 113, 345-350.	0.4	6
23	Sub-THz wave generation by magnetized plasma with strong turbulence driven by high-current REB. , 2013, , .		0
24	Two-pulse Thomson scattering system for measurements of fast fluctuations of electron density in multimirror trap GOL-3. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 720, 39-41.	1.6	5
25	Neutral particle analyzer for studies of fast ion population in plasma. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 720, 42-44.	1.6	5
26	Surface modification and droplet formation of tungsten under hot plasma irradiation at the GOL-3. Journal of Nuclear Materials, 2013, 438, S677-S680.	2.7	28
27	Fast ion confinement and stability in a neutral beam injected reversed field pinch. Physics of Plasmas, 2013, 20, .	1.9	19
28	Temporal structure of double plasma frequency emission of thin beam-heated plasma. Physics of Plasmas, 2013, 20, .	1.9	17
29	Overview of results from the MST reversed field pinch experiment. Nuclear Fusion, 2013, 53, 104017.	3.5	33
30	Effect of sublevel population mixing on the interpretation of doppler-shift spectroscopy measurements of neutral beam content. Journal of Instrumentation, 2013, 8, P05007-P05007.	1.2	4
31	Time-resolved ion energy distribution measurements using an advanced neutral particle analyzer on the MST reversed-field pinch. Review of Scientific Instruments, 2012, 83, 10D302.	1.3	15
32	Study of plasma rotation in the GOL-3 facility. Plasma Physics Reports, 2012, 38, 718-728.	0.9	7
33	Calibration of an advanced neutral particle analyzer for the Madison Symmetric Torus reversed-field pinch. Review of Scientific Instruments, 2012, 83, 10D704.	1.3	8
34	Diagnostic system for studying generation of subterahertz radiation during beam-plasma interaction in the GOL-3 facility. Plasma Physics Reports, 2012, 38, 450-459.	0.9	25
35	Blistering of the selected materials irradiated by intense 200keV proton beam. Journal of Nuclear Materials, 2010, 396, 43-48.	2.7	44
36	Diagnostics of heavy impurities at GOL-3 facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 623, 750-753.	1.6	5

#	Article	IF	Citations
37	Optical spectroscopy of plasma of the radio-frequency emitter of a powerful fast neutral beam injector. Instruments and Experimental Techniques, 2010, 53, 253-257.	0.5	0
38	Multipurpose implanter for high technology development. Bulletin of the Lebedev Physics Institute, 2009, 36, 325-326.	0.6	0
39	Investigation of subterhaertz emission from turbulent plasma heated by powerful REB at multimirror trap GOL-3. , 2009, , .		0
40	Measurement of high pulsed pressures using the shift of ruby fluorescence lines. Instruments and Experimental Techniques, 2006, 49, 293-296.	0.5	3
41	Experimental study of the dynamics of neutron emission from the GOL-3 multimirror trap. Plasma Physics Reports, 2006, 32, 94-102.	0.9	16
42	Multichannel Thomson scattering diagnostics for the GOL-3 facility. Plasma Physics Reports, 2006, 32, 108-113.	0.9	5
43	LWIR detectors for subthermonuclear plasma study. , 2006, , .		0
44	Study of the mechanism for fast ion heating in the GOL-3 multimirror magnetic confinement system. Plasma Physics Reports, 2005, 31, 462-475.	0.9	26
45	Experimental study of the evaporation and expansion of a solid pellet in a plasma heated by an electron beam. Plasma Physics Reports, 2004, 30, 9-17.	0.9	5
46	Determining the Spatial Structure of a High-Power Electron Beam Using Optical Radiation Emitted by a Beam Collector. Instruments and Experimental Techniques, 2004, 47, 194-200.	0.5	5
47	Spectral Diagnostics for Plasma Research at the GOL-3 Facility. Instruments and Experimental Techniques, 2004, 47, 224-229.	0.5	12
48	A Complex of Imaging Diagnostic Devices of Vacuum UV Radiation for the GOL-3 Multimirror Trap. Instruments and Experimental Techniques, 2004, 47, 234-239.	0.5	4
49	Intensity radial profiles of VUV line radiation near the solid target in a hot plasma. European Physical Journal D, 2004, 54, C89-C94.	0.4	0
50	Direct observation of anomalously low longitudinal electron heat conductivity in the course of collective relaxation of a high-current relativistic electron beam in plasma. JETP Letters, 2003, 77, 358-361.	1.4	32