

Joshua Reusch

List of Publications by Year in descending order

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48
papers

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687363

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53
all docs

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docs citations

53
times ranked

433
citing authors

#	ARTICLE	IF	CITATIONS
1	Multipoint Thomson scattering diagnostic for the Madison Symmetric Torus reversed-field pinch. Review of Scientific Instruments, 2008, 79, 10E733.	1.3	38
2	Tokamak Startup Using Point-Source dc Helicity Injection. Physical Review Letters, 2009, 102, 225003.	7.8	34
3	Pulse-burst laser systems for fast Thomson scattering (invited). Review of Scientific Instruments, 2010, 81, 10D513.	1.3	29
4	Fast ion confinement and stability in a neutral beam injected reversed field pinch. Physics of Plasmas, 2013, 20, .	1.9	19
5	High- \hat{I}^2 , improved confinement reversed-field pinch plasmas at high density. Physics of Plasmas, 2008, 15, 010701.	1.9	18
6	Generation and confinement of hot ions and electrons in a reversed-field pinch plasma. Plasma Physics and Controlled Fusion, 2010, 52, 124048.	2.1	17
7	Measurement of energetic-particle-driven core magnetic fluctuations and induced fast-ion transport. Physics of Plasmas, 2013, 20, 030701.	1.9	17
8	Electron thermal transport within magnetic islands in the reversed-field pinch. Physics of Plasmas, 2010, 17, 056115.	1.9	16
9	Experimental Evidence for a Reduction in Electron Thermal Diffusion due to Trapped Particles. Physical Review Letters, 2011, 107, 155002.	7.8	15
10	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
11	Optimizing a Thomson scattering diagnostic for fast dynamics and high background. Review of Scientific Instruments, 2008, 79, 10E735.	1.3	14
12	A Hall sensor array for internal current profile constraint. Review of Scientific Instruments, 2010, 81, 10E105.	1.3	14
13	Advancing local helicity injection for non-solenoidal tokamak startup. Nuclear Fusion, 2019, 59, 076003.	3.5	14
14	Fast ion confinement in the three-dimensional helical reversed-field pinch. Plasma Physics and Controlled Fusion, 2014, 56, 094006.	2.1	13
15	Calibration of a Thomson scattering diagnostic for fluctuation measurements. Review of Scientific Instruments, 2008, 79, 10E734.	1.3	12
16	Pulse-burst operation of standard Nd:YAG lasers. Journal of Physics: Conference Series, 2010, 227, 012023.	0.4	12
17	Equilibrium evolution in oscillating-field current-drive experiments. Physics of Plasmas, 2010, 17, .	1.9	12
18	Measurement of Peeling Mode Edge Current Profile Dynamics. Physical Review Letters, 2011, 107, 035003.	7.8	12

#	ARTICLE	IF	CITATIONS
19	Classical confinement and outward convection of impurity ions in the MST RFP. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	12
20	Neutral beam heating of a RFP plasma in MST. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	12
21	The Formation of a Tokamak-like Plasma in Initial Experiments Using an Outboard Plasma Gun Current Source. <i>Journal of Fusion Energy</i> , 2009, 28, 140-143.	1.2	11
22	Runaway of energetic test ions in a toroidal plasma. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	11
23	A novel, cost-effective, multi-point Thomson scattering system on the Pegasus Toroidal Experiment (invited). <i>Review of Scientific Instruments</i> , 2016, 87, 11E403.	1.3	10
24	High Confinement Mode and Edge Localized Mode Characteristics in a Near-Unity Aspect Ratio Tokamak. <i>Physical Review Letters</i> , 2016, 116, 175001.	7.8	10
25	On virial analysis at low aspect ratio. <i>Physics of Plasmas</i> , 2016, 23, .	1.9	10
26	Non-inductively driven tokamak plasmas at near-unity β_t in the Pegasus toroidal experiment. <i>Physics of Plasmas</i> , 2018, 25, 056101.	1.9	9
27	Calibration of an advanced neutral particle analyzer for the Madison Symmetric Torus reversed-field pinch. <i>Review of Scientific Instruments</i> , 2012, 83, 10D704.	1.3	8
28	Progress on Thomson scattering in the Pegasus Toroidal Experiment. <i>Journal of Instrumentation</i> , 2013, 8, C11019-C11019.	1.2	8
29	Impedance of an intense plasma-cathode electron source for tokamak startup. <i>Physics of Plasmas</i> , 2016, 23, 052515.	1.9	8
30	Multi-point, high-speed passive ion velocity distribution diagnostic on the Pegasus Toroidal Experiment. <i>Review of Scientific Instruments</i> , 2012, 83, 10D516.	1.3	7
31	Noninductively Driven Tokamak Plasmas at Near-Unity Toroidal Beta. <i>Physical Review Letters</i> , 2017, 119, 035001.	7.8	6
32	Electron temperature fluctuations during sawtooth events in a reversed-field pinch. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 112001.	2.1	4
33	Attainment of High Normalized Current by Current Profile Manipulation in the Pegasus Toroidal Experiment. <i>Journal of Fusion Energy</i> , 2008, 27, 20-24.	1.2	3
34	Magnetic and velocity fluctuations from nonlinearly coupled tearing modes in the reversed field pinch with and without the reversal surface. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	3
35	Initiation and sustainment of tokamak plasmas with local helicity injection as the majority current drive. <i>Nuclear Fusion</i> , 2018, 58, 096002.	3.5	3
36	Digital Control and Power Systems for the Pegasus-III Experiment. <i>IEEE Transactions on Plasma Science</i> , 2022, 50, 4021-4026.	1.3	3

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37	A Coaxial Helicity Injection System for Nonsolenoidal Startup Studies on the PEGASUS-III Experiment. IEEE Transactions on Plasma Science, 2022, 50, 4015-4020.	1.3	3
38	Improvements to the calibration of the MST Thomson scattering diagnostic. Review of Scientific Instruments, 2012, 83, 10E324.	1.3	2
39	Control and automation of the Pegasus multi-point Thomson scattering system. Review of Scientific Instruments, 2016, 87, 11E523.	1.3	2
40	Electron thermal confinement in a partially stochastic magnetic structure. Physics of Plasmas, 2018, 25, .	1.9	2
41	A power-balance model for local helicity injection startup in a spherical tokamak. Nuclear Fusion, 2018, 58, 076011.	3.5	2
42	Radially scanning magnetic probes to study local helicity injection dynamics. Review of Scientific Instruments, 2018, 89, 10J103.	1.3	2
43	The New PEGASUS-III Experiment. IEEE Transactions on Plasma Science, 2022, 50, 4009-4014.	1.3	2
44	Advances in Time-Resolved Measurement of Magnetic Field and Electron Temperature in Low-Magnetic-Field Plasmas. Fusion Science and Technology, 2011, 59, 124-127.	1.1	1
45	MHD simulation of RF current drive in MST. , 2014, , .		1
46	Initial characterization of electron temperature and density profiles in PEGASUS spherical tokamak discharges driven solely by local helicity injection. Physics of Plasmas, 2021, 28, 102504.	1.9	1
47	Design of a retarding potential grid system for a neutral particle analyzer. Review of Scientific Instruments, 2014, 85, 11D402.	1.3	0
48	Magnetic Turbulence and Current Drive during Local Helicity Injection. Physical Review Letters, 2022, 128, 105001.	7.8	0