

Stephen B Swanekamp

List of Publications by Year in descending order

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50
papers

613
citations

840776

11
h-index

642732

23
g-index

51
all docs

51
docs citations

51
times ranked

210
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical modeling and experimental characterization of a rod-pinch diode. Physics of Plasmas, 2001, 8, 4618-4636.	1.9	134
2	Particle-in-cell simulations of high-power cylindrical electron beam diodes. Physics of Plasmas, 2000, 7, 5214-5222.	1.9	65
3	Ultra-high electron beam power and energy densities using a plasma-filled rod-pinch diode. Physics of Plasmas, 2004, 11, 2916-2927.	1.9	54
4	Plasma opening switch conduction scaling. Physics of Plasmas, 1995, 2, 3893-3901.	1.9	50
5	The theory and simulation of relativistic electron beam transport in the ionâ€focussed regime. Physics of Fluids B, 1992, 4, 1332-1348.	1.7	41
6	Gap formation processes in a highâ€density plasma opening switch. Physics of Plasmas, 1995, 2, 299-309.	1.9	30
7	Particleâ€inâ€cell simulations of fast magnetic field penetration into plasmas due to the Hall electric field. Physics of Plasmas, 1996, 3, 3556-3563.	1.9	23
8	Emission of an intense electron beam from a ceramic honeycomb. Applied Physics Letters, 2003, 82, 179-181.	3.3	23
9	Initialization and Operation of Mercury, A 6-MV MIVA. , 2005, , .		22
10	An Analysis of Intense Pulsed Active Detection (IPAD) for the Detection of Special Nuclear Materials. IEEE Transactions on Nuclear Science, 2011, 58, 2047-2054.	2.0	21
11	Ion diode performance on a positive polarity inductive voltage adder with layered magnetically insulated transmission line flow. Physics of Plasmas, 2011, 18, .	1.9	17
12	Magnetically insulated electron flow with ions with application to the rod-pinch diode. Physics of Plasmas, 2004, 11, 3976-3991.	1.9	16
13	Eliminating the transit-time instability in large-area electron-beam diodes. Applied Physics Letters, 2003, 83, 1539-1541.	3.3	11
14	Charged particle flow in plasmaâ€filled pinchedâ€electronâ€beam diodes. Journal of Applied Physics, 1993, 74, 2274-2286.	2.5	10
15	Detectors for intense, pulsed active detection. , 2010, , .		10
16	Experimental determination of gap scaling in a plasma opening switch. Physics of Plasmas, 2000, 7, 3790-3796.	1.9	9
17	Initiation and prevention of the transit time instability in large area diodes. Journal of Applied Physics, 2004, 95, 2797-2799.	2.5	8
18	Modeling nitrogen plasmas produced by intense electron beams. Physics of Plasmas, 2016, 23, .	1.9	8

#	ARTICLE	IF	CITATIONS
19	Suppressing the transit-time instability in large-area electron-beam diodes. Applied Physics Letters, 2002, 81, 1597-1599.	3.3	7
20	Theory and simulations of electron vortices generated by magnetic pushing. Physics of Plasmas, 2013, 20, 082115.	1.9	7
21	The effect of electron inertia in Hall-driven magnetic field penetration in electron-magnetohydrodynamics. Physics of Plasmas, 2016, 23, .	1.9	6
22	Room scattering effects on the measured spatial distribution of delayed photofission neutrons from depleted uranium. , 2011, , .		5
23	Nonquasineutral electron vortices in nonuniform plasmas. Physics of Plasmas, 2014, 21, 112306.	1.9	5
24	Visualization of Magnetic Field Penetration in Multicomponent Plasma. IEEE Transactions on Plasma Science, 2014, 42, 2552-2553.	1.3	5
25	Measuring multimegavolt pulsed voltages using Compton-generated electrons. Review of Scientific Instruments, 2004, 75, 166-173.	1.3	4
26	A multi-term spherical harmonic expansion of the Boltzmann equation for application to low-temperature collisional plasmas. Physics of Plasmas, 2019, 26, 103506.	1.9	4
27	Modeling intense-electron-beam generated plasmas using a rigid-beam approximation. Physics of Plasmas, 2021, 28, .	1.9	4
28	−6 MV vacuum voltmeter development. , 2009, , .		3
29	An analysis of Intense Pulsed Active Detection (IPAD) for the detection of special nuclear materials. , 2010, , .		3
30	Reflex triode x-ray source research on Gamble II. , 2007, , .		1
31	Development of an intense, pulsed source of combined characteristic-gamma-rays and neutrons to induce fission. , 2010, , .		1
32	Plasma injection technique for species separation and magnetic field penetration experiments. , 2014, , .		1
33	Particle-in-cell simulations of electron beam control using an inductive current divider. Physics of Plasmas, 2015, 22, 113108.	1.9	1
34	Controlling hollow relativistic electron beam orbits with an inductive current divider. Physics of Plasmas, 2015, 22, 023107.	1.9	1
35	Propagation speed, linear stability, and ion acceleration in radially imploding Hall-driven electron-magnetohydrodynamic shocks. Physics of Plasmas, 2018, 25, .	1.9	1
36	Stability of Space-Charged-Limited Electron Beam Diodes Including Applied- and Self-Magnetic Field Effects. IEEE Transactions on Plasma Science, 2019, 47, 3189-3203.	1.3	1

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37	Particle-in-cell simulations of ion dynamics in a pinched-beam diode. Physics of Plasmas, 2022, 29, .	1.9	1
38	Reflex Triode X-Ray Source Research on Gamble II. , 2007, , .		0
39	Electron-orbit control using a postdiode magnetic-field structure. , 2013, , .		0
40	Electron-beam optimization for bremsstrahlung-induced photofission. , 2013, , .		0
41	Prompt neutron detection at Hermes-III. , 2013, , .		0
42	Magnetic field penetration and magnetohydrodynamic acceleration in opening switch plasmas. , 2014, , .		0
43	Advanced gas chemistry model for gasses disturbed by an intense electron beam. , 2014, , .		0
44	Numerical studies of electrode plasma formation and expansion in high power charged particle beam diodes. , 2014, , .		0
45	Effects of pulsed anode heating on self-magnetic-pinch radiographic performance using NRL's Mercury IVA. , 2016, , .		0
46	Technique to Determine Intense Electron Beam Parameters and X-Ray Spectra From Dose-Rate Measurements at Different Angles. IEEE Transactions on Plasma Science, 2020, 48, 3637-3649.	1.3	0
47	Characterization of Vibrational and Rotational N ₂ Spectral Bands in an Electron Beam Produced Plasma Via a 1.3m High-Resolution Multi-View Spectrometer. , 2021, , .		0
48	Recomputing Beam-Impact Parameters for N ₂ Gas [*] . , 2022, , .		0
49	Particle-In-Cell Simulations of Two Cylindrical Reflex Triodes in Parallel. , 2022, , .		0
50	Assessment of N ₂ De-Excitation Reactions in a Low-Pressure Electron Beam Plasma Simulation. , 2022, , .		0