Samuel A Cohen

List of Publications by Year
in descending order

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54	1,104	430874	414414
papers	citations	18 h-index	32 g-index

58	58	58	468
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interpreting ion-energy distributions using charge exchange emitted from deeply kinetic field-reversed-configuration plasmas. Physics of Plasmas, 2022, 29, .	1.9	2
2	Non-Invasive Neutral Atom Density Measurements using fs-TALIF in a Magnetic Linear Plasma Device. , 2021, , .		0
3	The effect of rigid electron rotation on the Gradâ€“Shafranov equilibria of a class of FRC devices. Nuclear Fusion, 2021, 61, 086023.	3.5	3
4	Spontaneous multi-keV electron generation in a low-RF-power axisymmetric mirror machine. Physics of Plasmas, 2019, 26, .	1.9	4
5	Particle-in-cell studies of fast-ion slowing-down rates in cool tenuous magnetized plasma. Physics of Plasmas, 2018, 25, .	1.9	6
6	Demonstration of fast-electron populations in a low-pressure, low-power, magnetized RF plasma source. Physics of Plasmas, 2018, 25, 030702.	1.9	5
7	Using Poisson-regularized inversion of Bremsstrahlung emission to extract full electron energy distribution functions from x-ray pulse-height detector data. AIP Advances, 2018, 8, .	1.3	7
8	Space Nuclear Power Systems - Direct Fusion Drive. , 2018, , .		3
9	Nuclear and Future Flight Propulsion - Modeling the Thrust of the Direct Fusion Drive. , 2018, , .		5
10	A New Vision for Fusion Energy Research: Fusion Rocket Engines for Planetary Defense. Journal of Fusion Energy, 2016, 35, 123-133.	1.2	7
11	A direct fusion drive for rocket propulsion. Acta Astronautica, 2014, 105, 145-155.	3.2	20
12	Use of Polycarbonate Vacuum Vessels in High-Temperature Fusion-Plasma Research. Fusion Science and Technology, 2013, 64, 298-302.	1.1	1
13	Passive Superconducting Flux Conservers for Rotating-Magnetic-Field-Driven Field-Reversed Configurations. Fusion Science and Technology, 2012, 61, 86-103.	1.1	7
14	Particle-in-Cell Modeling of Field Reversed Configuration Formation by Odd-parity Rotating Magnetic Fields. Journal of Fusion Energy, 2010, 29, 584-587.	1.2	3
15	Formation of Field-Reversed-Configuration Plasma with Punctuated-Betatron-Orbit Electrons. Physical Review Letters, 2010, 105, 015002.	7.8	16
16	Particle-in-cell modeling of magnetized argon plasma flow through small mechanical apertures. Physics of Plasmas, 2009, 16, 053501.	1.9	8
17	LSP simulation of the formation of a field reversed configuration plasma with odd-parity rotating magnetic fields. , 2009, , .		0
18	Two-Dimensional Argon-Ion Velocity Distributions in the Expansion Region of a Helicon Plasma Source. IEEE Transactions on Plasma Science, 2008, 36, 1216-1217.	1.3	1

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19	Formation of Collisionless High-Î²Plasmas by Odd-Parity Rotating Magnetic Fields. Physical Review Letters, 2007, 98, 145002.	7.8	51
20	The Princeton FRC Rotating-Magnetic-Field-Experiment RF System. , 2007, , .		3
21	On-axis parallel ion speeds near mechanical and magnetic apertures in a helicon plasma device. Physics of Plasmas, 2005, 12, 103509.	1.9	30
22	Regular and stochastic orbits of ions in a highly prolate field-reversed configuration. Physics of Plasmas, 2004, 11, 947-957.	1.9	19
23	Ion acceleration in plasmas emerging from a helicon-heated magnetic-mirror device. Physics of Plasmas, 2003, 10, 2593-2598.	1.9	147
24	Ion and electron acceleration in the field-reversed configuration with an odd-parity rotating magnetic field. Physics of Plasmas, 2002, 9, 2093-2102.	1.9	30
25	Ion Heating in the Field-Reversed Configuration by Rotating Magnetic Fields near the Ion-Cyclotron Resonance. Physical Review Letters, 2000, 85, 5114-5117.	7.8	31
26	Geometrical aspects of a hollow-cathode planar magnetron. Physics of Plasmas, 1999, 6, 1655-1666.	1.9	20
27	Hollow cathode magnetron. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 77-82.	2.1	31
28	A source of hyperthermal neutrals for materials processing. Applied Physics Letters, 1997, 71, 980-982.	3.3	35
29	Comparisons of experimental measurements and twoâ€dimensional plasmaâ€fluid numerical simulations of a magnetized plasma column. Physics of Plasmas, 1996, 3, 4250-4267.	1.9	3
30	A Comparison of Results from an Edge-Plasma Model with Those from a Two-Dimensional Fluid Code. Fusion Science and Technology, 1992, 21, 1416-1420.	0.6	3
31	Effects of Particle Transport on Helium Ash Accumulation and Sustained Ignition in the International Thermonuclear Experimental Reactor. Fusion Science and Technology, 1991, 20, 48-57.	0.6	6
32	Highâ€beta operation and magnetohydrodynamic activity on the TFTR tokamak. Physics of Fluids B, 1990, 2, 1287-1290.	1.7	35
33	Correlations of heat and momentum transport in the TFTR tokamak. Physics of Fluids B, 1990, 2, 1300-1305.	1.7	47
34	Instrument for measuring the momentum flux from atomic and charged particle jets (abstract). Review of Scientific Instruments, 1990, 61, 3148-3148.	1.3	0
35	PPPL Lorentz orbit code. Review of Scientific Instruments, 1990, 61, 3262-3264.	1.3	20
36	An instrument for measuring the momentum flux from atomic and charged particle jets. Review of Scientific Instruments, 1990, 61, 3586-3591.	1.3	17

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37	Detection of surface glow related to spacecraft glow phenomena. Geophysical Research Letters, 1986, 13, 377-380.	4.0	52
38	Total scattering cross sections and interatomic potentials for neutral hydrogen and helium on some noble gases. Journal of Chemical Physics, 1985, 83, 5527-5530.	3.0	8
39	The effects of ICRF heating on plasma edge conditions in PLT. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1985, 3, 1211-1217.	2.1	19
40	TFTR prototype electrostaticâ€calorimeter probe head. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1983, 1, 845-848.	2.1	16
41	Lowâ€energy neutral atom spectrometer. Review of Scientific Instruments, 1982, 53, 1696-1708.	1.3	32
42	Surface modification of the PLT lower hybrid waveguides to improve operations. Journal of Vacuum Science and Technology, 1982, 20, 1309-1312.	1.9	7
43	Co adsorption on Alâ€Zr at room temperature. Journal of Vacuum Science and Technology, 1981, 18, 1098-1101.	1.9	5
44	Summary Abstract: Surface analysis of TFTR vacuum vessel samples subjected to the postâ€weld heat treatment. Journal of Vacuum Science and Technology, 1981, 18, 1072-1072.	1.9	0
45	Glow discharge conditioning of the PDX vacuum vessel. Journal of Vacuum Science and Technology, 1980, 17, 286-290.	1.9	45
46	Thermal desorption measurements of hydrogenâ€“isotope retention in the Alcatorâ€A tokamak. Journal of Vacuum Science and Technology, 1980, 17, 306-309.	1.9	1
47	Summary Abstract: In situ surface analysis station for the PDX tokamak. Journal of Vacuum Science and Technology, 1980, 17, 301-302.	1.9	6
48	UHV compatible chopper system. Journal of Vacuum Science and Technology, 1980, 17, 303-305.	1.9	7
49	Observations of changes in residual gas and surface composition with discharge cleaning in PLT. Journal of Vacuum Science and Technology, 1979, 16, 752-757.	1.9	21
50	AES study of the adsorption of O2, CO, CO2, and H2O on indium. Journal of Vacuum Science and Technology, 1979, 16, 558-561.	1.9	17
51	Ion Beam Analysis of Surface Modifications in Tokamaks. IEEE Transactions on Nuclear Science, 1979, 26, 1277-1280.	2.0	4
52	Molecular hydrogen formation on interstellar dust grains. Nature, 1976, 261, 215-216.	27.8	4
53	Vacuum and wall problems in precursor reactor tokamaks. Journal of Vacuum Science and Technology, 1976, 13, 449-462.	1.9	39
54	System for rapid injection of metal atoms into plasmas. Review of Scientific Instruments, 1975, 46, 1149-1154.	1.3	188