

Scott Robertson

List of Publications by Year in descending order

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42
papers

791
citations

687363

13
h-index

501196

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42
all docs

42
docs citations

42
times ranked

564
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated steady-state electrostatic particle-in-cell simulation of Langmuir probes. <i>Physics of Plasmas</i> , 2022, 29, 013502.	1.9	2
2	Sheath Around a Spherical Probe in a Photoelectron Environment. <i>IEEE Transactions on Plasma Science</i> , 2020, 48, 418-425.	1.3	0
3	Gyrofluid Model of Plasma Expansion in a Diverging Magnetic Field. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 2814-2819.	1.3	4
4	Kinetic model for an auroral double layer that spans many gravitational scale heights. <i>Physics of Plasmas</i> , 2014, 21, 122901.	1.9	3
5	Sheaths in laboratory and space plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 093001.	2.1	98
6	The Electron Sheath Around an Emissive Wire in Vacuum. <i>IEEE Transactions on Plasma Science</i> , 2012, 40, 2678-2685.	1.3	7
7	Experimental study of a photoelectron sheath. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	19
8	Dust Transport on a Surface in Plasma. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2730-2731.	1.3	10
9	Continuous gas discharge plasma with 200 K electron temperature. <i>Physics of Plasmas</i> , 2010, 17, 033508.	1.9	4
10	A hot-filament discharge with very low electron temperature. <i>Physics of Plasmas</i> , 2009, 16, 010702.	1.9	7
11	Sheath and presheath in plasma with warm ions. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	23
12	Plasma probes for the lunar surface. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	7
13	Analysis of the electron and ion fluxes to the wall of a hot-filament discharge device. <i>Physics of Plasmas</i> , 2007, 14, 043503.	1.9	3
14	Charge of Dust on Surfaces in Plasma. <i>IEEE Transactions on Plasma Science</i> , 2007, 35, 271-279.	1.3	41
15	Dependence of Langmuir probe data on distance from the axis of a collisionless plasma. <i>Journal of Applied Physics</i> , 2007, 101, 063303.	2.5	4
16	Smoky Plasma. <i>IEEE Transactions on Plasma Science</i> , 2007, 35, 314-322.	1.3	4
17	Relationship of electric field and charged particle density fluctuations to air turbulence in the mesosphere. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	3
18	A radially resolved kinetic model for nonlocal electron ripple diffusion losses in tokamaks. <i>Physics of Plasmas</i> , 2006, 13, 092306.	1.9	0

#	ARTICLE	IF	CITATIONS
19	Model for the density, temperature, and plasma potential of low-density hot-filament discharges. <i>Physical Review E</i> , 2005, 72, 016402.	2.1	17
20	Reduction of asymmetry transport in the annular Penning trap. <i>Physics of Plasmas</i> , 2004, 11, 1753-1756.	1.9	25
21	Trapped ion effect on shielding, current flow, and charging of a small object in a plasma. <i>Physics of Plasmas</i> , 2003, 10, 1500-1513.	1.9	190
22	Monte Carlo model of ion mobility and diffusion for low and high electric fields. <i>Physical Review E</i> , 2003, 67, 046405.	2.1	33
23	Electron diffusion in the annular Penning trap. <i>Physics of Plasmas</i> , 2002, 9, 3264-3271.	1.9	7
24	Effect of charge exchange ions upon Langmuir probe current. <i>Applied Physics Letters</i> , 2002, 81, 1961-1963.	3.3	24
25	Contact charging of lunar and Martian dust simulants. <i>Journal of Geophysical Research</i> , 2002, 107, 15-1-15-8.	3.3	88
26	Classical collisional diffusion in the annular Penning trap. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	0
27	Charge Exchange Collisions and the Current to Probes and Dust Particles. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	0
28	Contact charging of lunar and Martian dust simulants. , 2002, 107, 15-1.		1
29	Experimental observation of the trapped particle pinch effect. <i>Physical Review E</i> , 2001, 63, 056406.	2.1	0
30	Charging of dust particles on surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 2533-2541.	2.1	46
31	Neoclassical effects in the annular Penning trap. <i>Physics of Plasmas</i> , 2001, 8, 1863-1869.	1.9	5
32	Electron confinement in an annular Penning trap. <i>Physics of Plasmas</i> , 2000, 7, 2340-2347.	1.9	12
33	An annular Penning trap for studies of plasma confinement. , 1999, , .		1
34	Annular Malmbergâ€™Penning trap for studies of plasma confinement. <i>Review of Scientific Instruments</i> , 1999, 70, 2993-2996.	1.3	11
35	Coulomb crystals of oil droplets. <i>American Journal of Physics</i> , 1999, 67, 310-315.	0.7	13
36	Simulation of rocket-borne particle measurements in the mesosphere. <i>Geophysical Research Letters</i> , 1999, 26, 1537-1540.	4.0	50

#	ARTICLE	IF	CITATIONS
37	Electrostatic charging of lunar dust. , 1998, , .		2
38	Laboratory experiments relating to noctilucent clouds. , 1998, , .		1
39	Neoclassical transport in an annular penning trap. Physics of Plasmas, 1997, 4, 2760-2762.	1.9	4
40	A spherical electrostatic orrery. American Journal of Physics, 1996, 64, 1356-1361.	0.7	2
41	Collective behavior of non-neutral plasma in a Kingdon trap. Physics of Plasmas, 1995, 2, 3-5.	1.9	7
42	Electrostatic orrery for celestial mechanics. American Journal of Physics, 1994, 62, 821-828.	0.7	13