

Scott Robertson

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

791
citations

687363

13
h-index

501196

28
g-index

42
all docs

42
docs citations

42
times ranked

564
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | Sheaths in laboratory and space plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 093001. | 2.1 | 98 |
| 3 | Contact charging of lunar and Martian dust simulants. <i>Journal of Geophysical Research</i> , 2002, 107, 15-1-15-8. | 3.3 | 88 |
| 4 | Simulation of rocket-borne particle measurements in the mesosphere. <i>Geophysical Research Letters</i> , 1999, 26, 1537-1540. | 4.0 | 50 |
| 5 | 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 |
| 6 | Charge of Dust on Surfaces in Plasma. <i>IEEE Transactions on Plasma Science</i> , 2007, 35, 271-279. | 1.3 | 41 |
| 7 | 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 |
| 8 | Reduction of asymmetry transport in the annular Penning trap. <i>Physics of Plasmas</i> , 2004, 11, 1753-1756. | 1.9 | 25 |
| 9 | Effect of charge exchange ions upon Langmuir probe current. <i>Applied Physics Letters</i> , 2002, 81, 1961-1963. | 3.3 | 24 |
| 10 | Sheath and presheath in plasma with warm ions. <i>Physics of Plasmas</i> , 2009, 16, . | 1.9 | 23 |
| 11 | Experimental study of a photoelectron sheath. <i>Physics of Plasmas</i> , 2012, 19, . | 1.9 | 19 |
| 12 | 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 |
| 13 | Electrostatic orrery for celestial mechanics. <i>American Journal of Physics</i> , 1994, 62, 821-828. | 0.7 | 13 |
| 14 | Coulomb crystals of oil droplets. <i>American Journal of Physics</i> , 1999, 67, 310-315. | 0.7 | 13 |
| 15 | Electron confinement in an annular Penning trap. <i>Physics of Plasmas</i> , 2000, 7, 2340-2347. | 1.9 | 12 |
| 16 | Annular Malmbergâ€“Penning trap for studies of plasma confinement. <i>Review of Scientific Instruments</i> , 1999, 70, 2993-2996. | 1.3 | 11 |
| 17 | Dust Transport on a Surface in Plasma. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 2730-2731. | 1.3 | 10 |
| 18 | Collective behavior of nonâ€“neutral plasma in a Kingdon trap. <i>Physics of Plasmas</i> , 1995, 2, 3-5. | 1.9 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Electron diffusion in the annular Penning trap. <i>Physics of Plasmas</i> , 2002, 9, 3264-3271. | 1.9 | 7 |
| 20 | Plasma probes for the lunar surface. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 7 |
| 21 | A hot-filament discharge with very low electron temperature. <i>Physics of Plasmas</i> , 2009, 16, 010702. | 1.9 | 7 |
| 22 | The Electron Sheath Around an Emissive Wire in Vacuum. <i>IEEE Transactions on Plasma Science</i> , 2012, 40, 2678-2685. | 1.3 | 7 |
| 23 | Neoclassical effects in the annular Penning trap. <i>Physics of Plasmas</i> , 2001, 8, 1863-1869. | 1.9 | 5 |
| 24 | Neoclassical transport in an annular penning trap. <i>Physics of Plasmas</i> , 1997, 4, 2760-2762. | 1.9 | 4 |
| 25 | 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 |
| 26 | Smoky Plasma. <i>IEEE Transactions on Plasma Science</i> , 2007, 35, 314-322. | 1.3 | 4 |
| 27 | Continuous gas discharge plasma with 200 K electron temperature. <i>Physics of Plasmas</i> , 2010, 17, 033508. | 1.9 | 4 |
| 28 | Gyrofluid Model of Plasma Expansion in a Diverging Magnetic Field. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 2814-2819. | 1.3 | 4 |
| 29 | 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 |
| 30 | 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 |
| 31 | Kinetic model for an auroral double layer that spans many gravitational scale heights. <i>Physics of Plasmas</i> , 2014, 21, 122901. | 1.9 | 3 |
| 32 | A spherical electrostatic orrery. <i>American Journal of Physics</i> , 1996, 64, 1356-1361. | 0.7 | 2 |
| 33 | Electrostatic charging of lunar dust. , 1998, , . | | 2 |
| 34 | Accelerated steady-state electrostatic particle-in-cell simulation of Langmuir probes. <i>Physics of Plasmas</i> , 2022, 29, 013502. | 1.9 | 2 |
| 35 | Laboratory experiments relating to noctilucent clouds. , 1998, , . | | 1 |
| 36 | An annular Penning trap for studies of plasma confinement. , 1999, , . | | 1 |

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|----|--|-----|-----------|
| 37 | Contact charging of lunar and Martian dust simulants. , 2002, 107, 15-1. | | 1 |
| 38 | Experimental observation of the trapped particle pinch effect. Physical Review E, 2001, 63, 056406. | 2.1 | 0 |
| 39 | Classical collisional diffusion in the annular Penning trap. AIP Conference Proceedings, 2002, , . | 0.4 | 0 |
| 40 | Charge Exchange Collisions and the Current to Probes and Dust Particles. AIP Conference Proceedings, 2002, , . | 0.4 | 0 |
| 41 | A radially resolved kinetic model for nonlocal electron ripple diffusion losses in tokamaks. Physics of Plasmas, 2006, 13, 092306. | 1.9 | 0 |
| 42 | Sheath Around a Spherical Probe in a Photoelectron Environment. IEEE Transactions on Plasma Science, 2020, 48, 418-425. | 1.3 | 0 |