

Jack D Scudder

List of Publications by Year in descending order

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57
papers

4,319
citations

159525

30
h-index

143943

57
g-index

57
all docs

57
docs citations

57
times ranked

2010
citing authors

#	ARTICLE	IF	CITATIONS
1	SWE, a comprehensive plasma instrument for the WIND spacecraft. <i>Space Science Reviews</i> , 1995, 71, 55-77.	3.7	1,059
2	On the causes of temperature change in inhomogeneous low-density astrophysical plasmas. <i>Astrophysical Journal</i> , 1992, 398, 299.	1.6	233
3	Plasma Observations Near Jupiter: Initial Results from Voyager 1. <i>Science</i> , 1979, 204, 987-991.	6.0	220
4	A theory of local and global processes which affect solar wind electrons, 1. The origin of typical 1 AU velocity distribution functionsâ€”Steady state theory. <i>Journal of Geophysical Research</i> , 1979, 84, 2755-2772.	3.3	203
5	Why all stars should possess circumstellar temperature inversions. <i>Astrophysical Journal</i> , 1992, 398, 319.	1.6	173
6	Plasma Observations Near Saturn: Initial Results from Voyager 1. <i>Science</i> , 1981, 212, 217-224.	6.0	170
7	Fast and optimal solution to the â€œRankineâ€Hugoniot problemâ€• <i>Journal of Geophysical Research</i> , 1986, 91, 39-58.	3.3	164
8	A theory of local and global processes which affect solar wind electrons 2. Experimental support. <i>Journal of Geophysical Research</i> , 1979, 84, 6603-6620.	3.3	145
9	The effect of a non-Maxwellian electron distribution on oxygen and iron ionization balances in the solar corona. <i>Astrophysical Journal</i> , 1983, 270, 758.	1.6	128
10	Plasma Observations Near Saturn: Initial Results from Voyager 2. <i>Science</i> , 1982, 215, 563-570.	6.0	119
11	Observations at the planet Mercury by the Plasma Electron Experiment: Mariner 10. <i>Journal of Geophysical Research</i> , 1977, 82, 1807-1824.	3.3	112
12	A review of the physics of electron heating at collisionless shocks. <i>Advances in Space Research</i> , 1995, 15, 181-223.	1.2	101
13	On the perpendicular scale of electron phase-space holes. <i>Geophysical Research Letters</i> , 2000, 27, 169-172.	1.5	95
14	Detection of bumpâ€onâ€tail reduced electron velocity distributions at the electron foreshock boundary. <i>Geophysical Research Letters</i> , 1984, 11, 496-499.	1.5	92
15	Electron plasma waves upstream of the Earth's bow shock. <i>Journal of Geophysical Research</i> , 1985, 90, 73-94.	3.3	91
16	Observations at Mercury Encounter by the Plasma Science Experiment on Mariner 10. <i>Science</i> , 1974, 185, 145-151.	6.0	89
17	â€œIlluminatingâ€• electron diffusion regions of collisionless magnetic reconnection using electron gyrotopology. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	87
18	Electron observations in the solar wind and magnetosheath. <i>Journal of Geophysical Research</i> , 1973, 78, 6535-6548.	3.3	85

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19	Ion and electron suprathermal tail strengths in the transition region: Support for the velocity filtration model of the corona. <i>Astrophysical Journal</i> , 1994, 427, 446.	1.6	78
20	Electron energy flux in the solar wind. <i>Journal of Geophysical Research</i> , 1971, 76, 8165-8173.	3.3	71
21	The polar cusp location and its dependence on dipole tilt. <i>Geophysical Research Letters</i> , 1999, 26, 429-432.	1.5	63
22	A reconnection layer associated with a magnetic cloud. <i>Advances in Space Research</i> , 2001, 28, 759-764.	1.2	61
23	First Resolved Observations of the Demagnetized Electron-Diffusion Region of an Astrophysical Magnetic-Reconnection Site. <i>Physical Review Letters</i> , 2012, 108, 225005.	2.9	55
24	Cusp energetic ions: A bow shock source. <i>Geophysical Research Letters</i> , 1998, 25, 3729-3732.	1.5	53
25	Observations at Venus Encounter by the Plasma Science Experiment on Mariner 10. <i>Science</i> , 1974, 183, 1293-1296.	6.0	42
26	Modelling signatures of pulsed magnetopause reconnection in cusp ion dispersion signatures seen at middle altitudes. <i>Geophysical Research Letters</i> , 1998, 25, 591-594.	1.5	40
27	Plasma waves observed during cusp energetic particle events and their correlation with Polar and Akebono satellite and ground data. <i>Advances in Space Research</i> , 1999, 24, 23-33.	1.2	33
28	Magnetic field and electron observations near the dawn magnetopause. <i>Journal of Geophysical Research</i> , 1971, 76, 3574-3586.	3.3	31
29	Distribution of neutral gas and dust near Saturn. <i>Nature</i> , 1981, 292, 711-714.	13.7	31
30	Electron heating in quasi-perpendicular shocks: A Monte Carlo Simulation. <i>Journal of Geophysical Research</i> , 1990, 95, 14939-14959.	3.3	30
31	Fluid signatures of rotational discontinuities at the Earth's magnetopause. <i>Journal of Geophysical Research</i> , 1984, 89, 7431-7440.	3.3	26
32	Observations of a slow-mode shock at the lobe-plasma sheet boundary in Earth's distant magnetotail. <i>Geophysical Research Letters</i> , 1995, 22, 2981-2984.	1.5	26
33	Simultaneous triggered VLF emissions and energetic electron distributions observed on POLAR with PWI and HYDRA. <i>Geophysical Research Letters</i> , 2000, 27, 165-168.	1.5	25
34	Observation of plasma deceleration at a rotational magnetopause discontinuity. <i>Geophysical Research Letters</i> , 1984, 11, 8-11.	1.5	23
35	Title is missing!. <i>Space Science Reviews</i> , 1997, 80, 235-267.	3.7	23
36	Response of the equatorial and polar magnetosphere to the very tenuous solar wind on May 11, 1999. <i>Geophysical Research Letters</i> , 2000, 27, 3773-3776.	1.5	22

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37	Electron heat flow in the solar corona: Implications of non-Maxwellian velocity distributions, the solar gravitational field, and Coulomb collisions. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	22
38	Electron heat flow carried by Kappa Distributions in the solar corona. <i>Geophysical Research Letters</i> , 1999, 26, 3537-3540.	1.5	21
39	Motion of shocks through interplanetary streams. <i>Journal of Geophysical Research</i> , 1975, 80, 4004-4010.	3.3	20
40	Steady Electron Runaway Model SERM: Astrophysical Alternative for the Maxwellian Assumption. <i>Astrophysical Journal</i> , 2019, 885, 138.	1.6	20
41	Polar, Cluster and SuperDARN evidence for high-latitude merging during southward IMF: temporal/spatial evolution. <i>Annales Geophysicae</i> , 2003, 21, 2233-2258.	0.6	18
42	Electrodynamics of the poleward auroral border observed by Polar during a substorm on April 22, 1998. <i>Journal of Geophysical Research</i> , 2001, 106, 5927-5943.	3.3	16
43	Preliminary interpretation of plasma electron observations at the third encounter of Mariner 10 with Mercury. <i>Nature</i> , 1975, 255, 206-208.	13.7	15
44	Auroral-plasma sheet electron anisotropy. <i>Geophysical Research Letters</i> , 1999, 26, 971-974.	1.5	15
45	Dreicer order ambipolar electric fields at Parker's steady state solar wind sonic critical point. <i>Journal of Geophysical Research</i> , 1996, 101, 13461-13471.	3.3	13
46	Observed and simulated depletion layers with southward IMF. <i>Annales Geophysicae</i> , 2004, 22, 2151-2169.	0.6	10
47	The Thermal Force in Astrophysical Plasmas: Current Free Coulomb Friction. <i>Astrophysical Journal</i> , 2019, 882, 146.	1.6	10
48	The Long-standing Closure Crisis in Coronal Plasmas. <i>Astrophysical Journal</i> , 2019, 885, 148.	1.6	8
49	Factors controlling the diamagnetic pressure in the polar cusp. <i>Geophysical Research Letters</i> , 2001, 28, 915-918.	1.5	7
50	Interactions of the heliospheric current and plasma sheets with the bow shock: Cluster and Polar observations in the magnetosheath. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	5
51	Temporal-spatial structure of magnetic merging at the magnetopause inferred from 557.7-nm all-sky images. <i>Annales Geophysicae</i> , 2004, 22, 2917-2942.	0.6	4
52	Comment on "Demagnetization of electrons in inhomogeneous $E \times B$: Implications for electron heating in shocks" by M. Gedalin et al.. <i>Journal of Geophysical Research</i> , 1996, 101, 2561-2566.	3.3	3
53	Magnetospheric electric fields from ion data. <i>Geophysical Research Letters</i> , 1999, 26, 1561-1564.	1.5	3
54	Power to the magnetosphere: May 4, 1998. <i>Advances in Space Research</i> , 2003, 31, 1117-1122.	1.2	3

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55	Polar observations of plasma waves in and near the dayside magnetopause/magnetosheath. Planetary and Space Science, 2004, 52, 1321-1337.	0.9	3
56	Quality Metric for Spitzerâ€“Braginskii and Grad 8 Moment Heat Flux Closures. Astrophysical Journal, 2021, 907, 90.	1.6	3
57	Measuring Particle Current Density J on NASA's Magnetospheric Multiscale Mission (MMS). Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	1