

David J Southwood

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/710003/publications.pdf>

Version: 2024-02-01

88
papers

7,987
citations

66315

42
h-index

53190

85
g-index

94
all docs

94
docs citations

94
times ranked

2201
citing authors

#	ARTICLE	IF	CITATIONS
1	How a Realistic Magnetosphere Alters the Polarizations of Surface, Fast Magnetosonic, and Alfvén Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	10
2	Discovery of Alfvén Waves Planetward of Saturn's Rings. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028473.	0.8	4
3	Magnetopause ripples going against the flow form azimuthally stationary surface waves. <i>Nature Communications</i> , 2021, 12, 5697.	5.8	17
4	Evaluating the Ionospheric Mass Source for Jupiter's Magnetosphere: An Ionospheric Outflow Model for the Auroral Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027727.	0.8	2
5	An Improbable Collaboration. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028407.	0.8	1
6	Saturn's Auroral Field-Aligned Currents: Observations From the Northern Hemisphere Dawn Sector During Cassini's Proximal Orbits. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027683.	0.8	3
7	Currents Associated With Saturn's Intra-Ring Azimuthal Field Perturbations. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5675-5691.	0.8	4
8	Saturn's Planetary Period Oscillations During the Closest Approach of Cassini's Ring-Grazing Orbits. <i>Geophysical Research Letters</i> , 2018, 45, 4692-4700.	1.5	9
9	Field-Aligned Currents in Saturn's Magnetosphere: Observations From the Ring Orbits. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3806-3821.	0.8	20
10	Saturn's magnetic field revealed by the Cassini Grand Finale. <i>Science</i> , 2018, 362, .	6.0	108
11	Discovery of Atmospheric-Wind-Driven Electric Currents in Saturn's Magnetosphere in the Gap Between Saturn and its Rings. <i>Geophysical Research Letters</i> , 2018, 45, 10,068.	1.5	18
12	Stagnation of Saturn's auroral emission at noon. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6078-6087.	0.8	7
13	Norway's most celebrated scientist. <i>Astronomy and Geophysics</i> , 2017, 58, 5.28-5.31.	0.1	1
14	High-latitude circulation in giant planet magnetospheres. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5394-5403.	0.8	13
15	Saturn's quasiperiodic magnetohydrodynamic waves. <i>Geophysical Research Letters</i> , 2016, 43, 11,102.	1.5	16
16	Reply to the comment by Cowley et al. on "Magnetic phase structure of Saturn's 10.7-h oscillations". <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5691-5693.	0.8	0
17	Magnetic phase structure of Saturn's 10.7-h oscillations. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2631-2648.	0.8	6
18	From the Carrington Storm to the Dungey Magnetosphere. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2015, , 253-271.	0.3	4

#	ARTICLE	IF	CITATIONS
19	Saturn's dynamic magnetotail: A comprehensive magnetic field and plasma survey of plasmoids and traveling compression regions and their role in global magnetospheric dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5465-5494.	0.8	69
20	The origin of Saturn's magnetic periodicities: Northern and southern current systems. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1563-1571.	0.8	55
21	Theory and Observation of Magnetosheath Waves. <i>Geophysical Monograph Series</i> , 2013, , 147-158.	0.1	12
22	The Formation of Slow Mode Fronts in the Magnetosheath. <i>Geophysical Monograph Series</i> , 2013, , 109-114.	0.1	8
23	When international partnerships go wrong. <i>Nature</i> , 2012, 488, 451-453.	13.7	1
24	Planetary period oscillations in Saturn's magnetosphere: Evolution of magnetic oscillation properties from southern summer to postâ€œequinox. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	88
25	Direct evidence of differences in magnetic rotation rate between Saturn's northern and southern polar regions. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	41
26	The source of Saturn's periodic radio emission. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	43
27	Warping of Saturn's magnetospheric and magnetotail current sheets. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	148
28	Origin of Saturn's aurora: Simultaneous observations by Cassini and the Hubble Space Telescope. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	127
29	The Variable Rotation Period of the Inner Region of Saturn's Plasma Disk. <i>Science</i> , 2007, 316, 442-445.	6.0	223
30	Saturnian magnetospheric dynamics: Elucidation of a camshaft model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	121
31	Cassini Magnetometer Observations During Saturn Orbit Insertion. <i>Science</i> , 2005, 307, 1266-1270.	6.0	211
32	Dynamical consequences of two modes of centrifugal instability in Jupiter's outer magnetosphere. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	140
33	The Cassini Magnetic Field Investigation. <i>Space Science Reviews</i> , 2004, 114, 331-383.	3.7	434
34	First evidence of IMF control of Jovian magnetospheric boundary locations: Cassini and Galileo magnetic field measurements compared. <i>Planetary and Space Science</i> , 2003, 51, 891-898.	0.9	21
35	Reanalysis of Saturn's magnetospheric field data view of spin-periodic perturbations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	56
36	How can Saturn impose its rotation period in a noncorotating magnetosphere?. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	73

#	ARTICLE	IF	CITATIONS
37	Magnetometer measurements from the Cassini Earth swing-by. <i>Journal of Geophysical Research</i> , 2001, 106, 30109-30128.	3.3	17
38	A new perspective concerning the influence of the solar wind on the Jovian magnetosphere. <i>Journal of Geophysical Research</i> , 2001, 106, 6123-6130.	3.3	148
39	Relationships between phase structure and energy flux in magnetohydrodynamic waves in the magnetosphere. <i>Journal of Geophysical Research</i> , 2000, 105, 27701-27706.	3.3	6
40	Frequency doubling in ultralow frequency wave signals. <i>Journal of Geophysical Research</i> , 1997, 102, 27151-27158.	3.3	13
41	Absence of an internal magnetic field at Callisto. <i>Nature</i> , 1997, 387, 262-264.	13.7	51
42	Troitskaya honored for crucial role in ULF wave research. <i>Eos</i> , 1996, 77, 417.	0.1	0
43	Mirror instability II: The mechanism of nonlinear saturation. <i>Journal of Geophysical Research</i> , 1996, 101, 17365-17371.	3.3	131
44	Rapid energy dissipation and variability of the Jupiter electrodynamic circuit. <i>Nature</i> , 1996, 379, 323-325.	13.7	114
45	Discovery of Ganymede's magnetic field by the Galileo spacecraft. <i>Nature</i> , 1996, 384, 537-541.	13.7	348
46	Solar wind interaction with small bodies: 1. Whistler wing signatures near Galileo's closest approach to Gaspra and Ida. <i>Advances in Space Research</i> , 1995, 16, 47-57.	1.2	14
47	Solar wind interaction with small bodies: 2. What can Galileo's detection of magnetic rotations tell us about Gaspra and Ida. <i>Advances in Space Research</i> , 1995, 16, 59-68.	1.2	23
48	Galileo flybys of earth: The nature of the distant shock. <i>Advances in Space Research</i> , 1995, 16, 197-204.	1.2	3
49	Magnetosheath flow near the subsolar magnetopause: Zwan-Wolf and Southwood-Kivelson theories reconciled. <i>Geophysical Research Letters</i> , 1995, 22, 3275-3278.	1.5	48
50	Null fields in the outer Jovian magnetosphere: Ulysses observations. <i>Geophysical Research Letters</i> , 1994, 21, 405-408.	1.5	21
51	Correlations between magnetic field and electron density observations during the inbound Ulysses Jupiter flyby. <i>Planetary and Space Science</i> , 1993, 41, 919-930.	0.9	16
52	Vortex motion in the ionosphere and nonlinear transport. <i>Journal of Geophysical Research</i> , 1993, 98, 11459-11466.	3.3	10
53	On the form of the flow in the magnetosheath. <i>Journal of Geophysical Research</i> , 1992, 97, 2873-2879.	3.3	78
54	Magnetic Field Studies of the Solar Wind Interaction with Venus from the Galileo Flyby. <i>Science</i> , 1991, 253, 1518-1522.	6.0	20

#	ARTICLE	IF	CITATIONS
55	MHD Wave Propagation in the Magnetosheath: Recent Results.. Journal of Geomagnetism and Geoelectricity, 1991, 43, 631-644.	0.8	1
56	Ionospheric Signatures of Localized Magnetospheric Perturbations. Journal of Geomagnetism and Geoelectricity, 1991, 43, 129-140.	0.8	2
57	Magnetopause pressure pulses as a source of localized field-aligned currents in the magnetosphere. Geophysical Monograph Series, 1990, , 619-625.	0.1	3
58	Phase delays in transverse disturbances in the Earth's magnetosheath. Geophysical Research Letters, 1990, 17, 2249-2252.	1.5	8
59	Magnetospheric interchange motions. Journal of Geophysical Research, 1989, 94, 299-308.	3.3	95
60	Hydromagnetic waves and the ionosphere. Geophysical Research Letters, 1988, 15, 1271-1274.	1.5	105
61	Magnetospheric interchange instability. Journal of Geophysical Research, 1987, 92, 109-116.	3.3	120
62	Coupling of global magnetospheric MHD eigenmodes to field line resonances. Journal of Geophysical Research, 1986, 91, 4345-4351.	3.3	373
63	The effect of parallel inhomogeneity on magnetospheric hydromagnetic wave coupling. Journal of Geophysical Research, 1986, 91, 6871-6876.	3.3	93
64	Astrophysics: Plasma motion near comet cores. Nature, 1985, 317, 12-12.	13.7	0
65	Resonant ULF waves: A new interpretation. Geophysical Research Letters, 1985, 12, 49-52.	1.5	331
66	Charged particle behavior in low-frequency geomagnetic pulsations: 4. Compressional waves. Journal of Geophysical Research, 1985, 90, 1486-1498.	3.3	54
67	Magnetosphere: First success for a space mission and a comet for Christmas. Nature, 1984, 312, 594-594.	13.7	6
68	Relations between polarization and the structure of ULF waves in the magnetosphere. Journal of Geophysical Research, 1984, 89, 5523-5529.	3.3	12
69	Charged particle behavior in low-frequency geomagnetic pulsations: 3. Spin phase dependence. Journal of Geophysical Research, 1983, 88, 174-182.	3.3	40
70	Charged particle behavior in low-frequency geomagnetic pulsations, 2. Graphical approach. Journal of Geophysical Research, 1982, 87, 1707-1710.	3.3	155
71	Alfvén wave resonances in a realistic magnetospheric magnetic field geometry. Journal of Geophysical Research, 1981, 86, 4589-4596.	3.3	248
72	Charged particle behavior in low-frequency geomagnetic pulsations 1. Transverse waves. Journal of Geophysical Research, 1981, 86, 5643-5655.	3.3	178

#	ARTICLE	IF	CITATIONS
73	Io and its plasma environment. <i>Journal of Geophysical Research</i> , 1980, 85, 5959-5968.	3.3	119
74	Magnetospheres of the Galilean Satellites. <i>Science</i> , 1979, 205, 491-493.	6.0	51
75	Evolution of ion cyclotron instability in the plasma convection system of the magnetosphere. <i>Journal of Geophysical Research</i> , 1979, 84, 6397-6406.	3.3	27
76	The screening of micropulsation signals by the atmosphere and ionosphere. <i>Journal of Geophysical Research</i> , 1976, 81, 3234-3240.	3.3	444
77	A general approach to low-frequency instability in the ring current plasma. <i>Journal of Geophysical Research</i> , 1976, 81, 3340-3348.	3.3	222
78	Local time variations of particle flux produced by an electrostatic field in the magnetosphere. <i>Journal of Geophysical Research</i> , 1975, 80, 56-65.	3.3	54
79	An approximate analytic description of plasma bulk parameters, and pitch angle anisotropy under adiabatic flow, in a dipolar magnetospheric field. <i>Journal of Geophysical Research</i> , 1975, 80, 2069-2073.	3.3	59
80	Note on the electric splitting of drift shells. <i>Journal of Geophysical Research</i> , 1975, 80, 3525-3527.	3.3	11
81	Approximations for the study of drift boundaries in the magnetosphere. <i>Journal of Geophysical Research</i> , 1975, 80, 3528-3534.	3.3	70
82	Effect of atmosphere and ionosphere on magnetospheric micropulsation signals. <i>Nature</i> , 1974, 248, 493-495.	13.7	33
83	Some features of field line resonances in the magnetosphere. <i>Planetary and Space Science</i> , 1974, 22, 483-491.	0.9	1,099
84	Storm-associated Pc 5 micropulsation events observed at the synchronous equatorial orbit. <i>Journal of Geophysical Research</i> , 1972, 77, 143-158.	3.3	77
85	Ultra low frequency waves in the magnetosphere. <i>Space Science Reviews</i> , 1970, 10, 672.	3.7	114
86	Bounce resonant interaction between pulsations and trapped particles. <i>Planetary and Space Science</i> , 1969, 17, 349-361.	0.9	265
87	The hydromagnetic stability of the magnetospheric boundary. <i>Planetary and Space Science</i> , 1968, 16, 587-605.	0.9	337
88	Neglected Plasma Instability involving Bounce Resonance. <i>Nature</i> , 1968, 219, 56-57.	13.7	4