

Patricia H Reiff

List of Publications by Year in descending order

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118
papers

7,478
citations

71061

41
h-index

53190

85
g-index

126
all docs

126
docs citations

126
times ranked

2530
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016, 352, aaf2939.	6.0	545
2	IMF B_y -dependent plasma flow and Birkeland currents in the dayside magnetosphere: 2. A global model for northward and southward IMF. <i>Journal of Geophysical Research</i> , 1985, 90, 1595-1609.	3.3	484
3	Dependence of polar cap potential drop on interplanetary parameters. <i>Journal of Geophysical Research</i> , 1981, 86, 7639-7648.	3.3	402
4	Quantitative simulation of a magnetospheric substorm 1. Model logic and overview. <i>Journal of Geophysical Research</i> , 1981, 86, 2217-2241.	3.3	397
5	Solar wind plasma injection at the dayside magnetospheric cusp. <i>Journal of Geophysical Research</i> , 1977, 82, 479-491.	3.3	361
6	Precipitating electron energy flux and auroral zone conductances—An empirical model. <i>Journal of Geophysical Research</i> , 1982, 87, 8215-8227.	3.3	299
7	Empirical polar cap potentials. <i>Journal of Geophysical Research</i> , 1997, 102, 111-125.	3.3	286
8	Effects of the March 1989 solar activity. <i>Eos</i> , 1989, 70, 1479.	0.1	227
9	IMF B_y -dependent plasma flow and Birkeland currents in the dayside magnetosphere: 1. Dynamics Explorer observations. <i>Journal of Geophysical Research</i> , 1985, 90, 1577-1593.	3.3	217
10	Quantitative simulation of a magnetospheric substorm 2. Comparison with observations. <i>Journal of Geophysical Research</i> , 1981, 86, 2242-2260.	3.3	191
11	Determination of auroral electrostatic potentials using high- and low-altitude particle distributions. <i>Journal of Geophysical Research</i> , 1988, 93, 7441-7465.	3.3	191
12	Solar Wind Control of the Polar-Cap Voltage. <i>Astrophysics and Space Science Library</i> , 1986, , 453-476.	1.0	167
13	Computer simulation of inner magnetospheric dynamics for the magnetic storm of July 29, 1977. <i>Journal of Geophysical Research</i> , 1982, 87, 5949-5962.	3.3	163
14	Views of Earth's Magnetosphere with the IMAGE Satellite. <i>Science</i> , 2001, 291, 619-624.	6.0	150
15	Plasma injection and transport in the mid-altitude polar cusp. <i>Geophysical Research Letters</i> , 1982, 9, 921-924.	1.5	147
16	The Radio Plasma Imager investigation on the IMAGE spacecraft. <i>Space Science Reviews</i> , 2000, 91, 319-359.	3.7	140
17	Evidence for space weather at Mercury. <i>Journal of Geophysical Research</i> , 2001, 106, 20509-20525.	3.3	140
18	Identifying the plasmopause in IMAGE EUV data using IMAGE RPI in situ steep density gradients. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	130

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19	Quantitative simulation of a magnetospheric substorm 3. Plasmaspheric electric fields and evolution of the plasmapause. <i>Journal of Geophysical Research</i> , 1981, 86, 2261-2272.	3.3	128
20	Simultaneous remote sensing and in situ observations of plasmaspheric drainage plumes. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	127
21	Control of plasmaspheric dynamics by both convection and sub-auroral polarization stream. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	117
22	Upward electron beams measured by DE-1: A primary source of dayside region-1 birkeland currents. <i>Geophysical Research Letters</i> , 1983, 10, 753-756.	1.5	113
23	Interhemispheric asymmetry of the high-latitude ionospheric convection pattern. <i>Journal of Geophysical Research</i> , 1994, 99, 6491.	3.3	105
24	Ionospheric convection signatures observed by De 2 during northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 1986, 91, 5817-5830.	3.3	97
25	IMF-driven plasmasphere erosion of 10 July 2000. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	95
26	Dayside auroral arcs and convection. <i>Geophysical Research Letters</i> , 1978, 5, 391-394.	1.5	93
27	Source rates and ion recycling rates for Na and K in Mercury's atmosphere. <i>Icarus</i> , 2004, 171, 1-19.	1.1	93
28	Sunward convection in both polar caps. <i>Journal of Geophysical Research</i> , 1982, 87, 5976-5980.	3.3	92
29	IMF-driven overshielding electric field and the origin of the plasmaspheric shoulder of May 24, 2000. <i>Geophysical Research Letters</i> , 2002, 29, 66-1-66-4.	1.5	91
30	Evidence of magnetospheric cusp proton acceleration by magnetic merging at the dayside magnetopause. <i>Journal of Geophysical Research</i> , 1977, 82, 3623-3628.	3.3	88
31	A Bx-interconnected magnetosphere model for Mercury. <i>Planetary and Space Science</i> , 2001, 49, 1629-1635.	0.9	84
32	Cusp proton signatures and the interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 1980, 85, 5997-6005.	3.3	79
33	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4858-4878.	0.8	79
34	Heavy ion circulation in the Earth's magnetosphere. <i>Geophysical Research Letters</i> , 1977, 4, 195-197.	1.5	75
35	Cusp region particle precipitation and ion convection for northward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 1980, 7, 393-396.	1.5	65
36	Improvements in short-term forecasting of geomagnetic activity. <i>Space Weather</i> , 2012, 10, .	1.3	64

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37	First results from the Radio Plasma Imager on IMAGE. Geophysical Research Letters, 2001, 28, 1167-1170.	1.5	61
38	On the auroral currentâ€voltage relationship. Journal of Geophysical Research, 1991, 96, 3523-3531.	3.3	51
39	Flow-aligned jets in the magnetospheric cusp: Results from the Geospace Environment Modeling Pilot Program. Journal of Geophysical Research, 1995, 100, 7649.	3.3	50
40	Models of auroral-zone conductances. Geophysical Monograph Series, 1984, , 180-191.	0.1	48
41	Distribution of convection potential around the polar cap boundary as a function of the interplanetary magnetic field. Journal of Geophysical Research, 1989, 94, 13447-13461.	3.3	44
42	The feasibility of radio sounding in the magnetosphere. Radio Science, 1995, 30, 1577-1595.	0.8	40
43	The cusp/magnetosheath interface on May 29, 1996: Interball-1 and Polar observations. Geophysical Research Letters, 1998, 25, 2963-2966.	1.5	38
44	Comparison of polar cap potential drops estimated from solar wind and ground magnetometer data: CDAW 6. Journal of Geophysical Research, 1985, 90, 1318-1324.	3.3	37
45	Upflowing ionospheric ions in the auroral region. Journal of Geophysical Research, 1992, 97, 16855-16863.	3.3	34
46	Characteristics of ionospheric convection and field-aligned current in the dayside cusp region. Journal of Geophysical Research, 1995, 100, 11845.	3.3	33
47	Thermospheric dynamics during November 21â€22, 1981: Dynamics Explorer measurements and thermospheric general circulation model predictions. Journal of Geophysical Research, 1988, 93, 209-225.	3.3	32
48	The Radio Plasma Imager Investigation on the Image Spacecraft. , 2000, , 319-359.		31
49	Multispacecraft observations and modeling of the 22/23 June 2015 geomagnetic storm. Geophysical Research Letters, 2016, 43, 7311-7318.	1.5	27
50	Evidence of magnetic merging from low-altitude spacecraft and ground-based experiments. Geophysical Monograph Series, 1984, , 104-113.	0.1	26
51	Four cells or two? Are four convection cells really necessary?. Journal of Geophysical Research, 1994, 99, 3955.	3.3	25
52	Realâ€time prediction of magnetospheric activity using the Boyle Index. Space Weather, 2009, 7, .	1.3	25
53	Electric fields deduced from plasmopause motion in IMAGE EUV images. Geophysical Research Letters, 2004, 31, .	1.5	24
54	Heating of Upflowing Ionospheric Ions on Auroral Field Lines. Geophysical Monograph Series, 0, , 83-91.	0.1	23

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55	Space weather at Mercury. <i>Advances in Space Research</i> , 2004, 33, 1899-1904.	1.2	21
56	The use and misuse of statistics in space physics.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1990, 42, 1145-1174.	0.8	21
57	Response of magnetotail plasma at lunar distance to changes in the interplanetary magnetic field, the solar wind plasma, and substorm activity. <i>Journal of Geophysical Research</i> , 1979, 84, 1382-1390.	3.3	20
58	Overshielding event of 28-29 July 2000. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	20
59	Banded Ion Morphology: Main and Recovery Storm Phases. <i>Geophysical Monograph Series</i> , 0, , 98-107.	0.1	20
60	The magnetosheath electron population at lunar distance: General features. <i>Journal of Geophysical Research</i> , 1975, 80, 1232-1237.	3.3	19
61	Plasma-sheet dynamics and magnetospheric substorms. <i>Planetary and Space Science</i> , 1980, 28, 363-374.	0.9	19
62	Ionospheric convection signatures and magnetic field topology. <i>Journal of Geophysical Research</i> , 1987, 92, 12352-12364.	3.3	19
63	On the cause of plasma sheet thinning during magnetospheric substorms. <i>Geophysical Research Letters</i> , 1980, 7, 177-180.	1.5	17
64	Response of the midtail electric field to enhanced solar wind energy input. <i>Journal of Geophysical Research</i> , 1999, 104, 17299-17310.	3.3	17
65	Mid-altitude modeling of cusp ion injection under steady and varying conditions. <i>Geophysical Research Letters</i> , 1997, 24, 2275-2278.	1.5	16
66	Learning in an immersive digital theater. <i>Advances in Space Research</i> , 2008, 42, 1848-1854.	1.2	16
67	Polar and auroral phenomena: A review of U.S. progress during 1979-1982. <i>Reviews of Geophysics</i> , 1983, 21, 418-433.	9.0	15
68	Sources of field-aligned currents in the auroral plasma. <i>Geophysical Research Letters</i> , 1991, 18, 45-48.	1.5	14
69	The Use and Misuse of Statistical Analyses. <i>Astrophysics and Space Science Library</i> , 1983, , 493-522.	1.0	14
70	Mapping the Auroral Oval into the Magnetotail Using Dynamics Explorer Plasma Data.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1992, 44, 1121-1144.	0.8	14
71	Observations of magnetospheric convection from low altitudes. <i>Advances in Space Research</i> , 1985, 5, 349-362.	1.2	13
72	Electron density images of the middle- and high-latitude magnetosphere in response to the solar wind. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	13

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73	Magnetic shadowing of charged particles by an extended surface. <i>Journal of Geophysical Research</i> , 1976, 81, 3423-3427.	3.3	11
74	A comparison of precipitating electron energy flux on March 22, 1979 with an empirical model: CDAW 6. <i>Journal of Geophysical Research</i> , 1985, 90, 2727-2734.	3.3	11
75	Field aligned currents in the high latitude, high altitude magnetosphere: POLAR initial results. <i>Geophysical Research Letters</i> , 1997, 24, 1455-1458.	1.5	11
76	Observations of magnetospheric plasmas by the radio plasma imager (RPI) on the image mission. <i>Advances in Space Research</i> , 2002, 30, 2259-2266.	1.2	10
77	Polar Cap Convection: Steady State and Dynamic Effects. <i>Geophysical Monograph Series</i> , 0, , 375-385.	0.1	10
78	Reply [to "Comment on "Solar wind plasma injection at the dayside magnetospheric cusp" by P. H. Reiff, T. W. Hill, and J. L. Burch]. <i>Journal of Geophysical Research</i> , 1978, 83, 229-231.	3.3	9
79	Reply [to "Comment on "The feasibility of radio sounding of the magnetosphere" by W. Calvert et al.]. <i>Radio Science</i> , 1997, 32, 281-284.	0.8	9
80	Overview of the image science objectives and mission phases. <i>Space Science Reviews</i> , 2000, 91, 51-66.	3.7	9
81	Polar magnetopause crossings of May 29, 1996: Implications for magnetic field modeling. <i>Journal of Geophysical Research</i> , 1998, 103, 17323-17332.	3.3	8
82	An Encounter With the Ion and Electron Diffusion Regions at a Flapping and Twisted Tail Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028903.	0.8	8
83	Empirical convection models for northward IMF. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1994, 56, 195-207.	0.9	7
84	Radio imaging of the magnetosphere. <i>Eos</i> , 1994, 75, 129.	0.1	7
85	Validating the Rice neural network and the WingKpreal-time models. <i>Space Weather</i> , 2014, 12, 417-425.	1.3	7
86	Asymmetric Reconnection Within a Flux Rope-Type Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027296.	0.8	7
87	Interactions of the plasma sheet with the lunar surface at the Apollo 14 site. <i>Journal of Geophysical Research</i> , 1976, 81, 4761-4764.	3.3	6
88	Radio remote sensing of magnetospheric plasmas. <i>Geophysical Monograph Series</i> , 1998, , 193-198.	0.1	6
89	A model of FTE footprints in the polar cap. <i>Geophysical Monograph Series</i> , 1990, , 599-603.	0.1	5
90	Magnetopause reconnection impact parameters from multiple spacecraft magnetic field measurements. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	5

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91	Testing the estimated hypothetical response of a major CME impact on Earth and its implications to space weather. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3432-3443.	0.8	5
92	Data Availability and Forecast Products for Space Weather. , 2018, , 27-41.		4
93	Radio Plasma Imager Simulations and Measurements. , 2000, , 361-389.		4
94	Design and numerical simulation of a 3-D electron plasma analyzer that resolves both energy and elevation angle. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989, 281, 628-639.	0.7	3
95	Lower hybrid drift wave motion at a dayside magnetopause x-line with energy conversion dominated by a parallel electric field. <i>Physics of Plasmas</i> , 2022, 29, 012905.	0.7	3
96	Publication process. <i>Eos</i> , 1984, 65, 354.	0.1	2
97	Initial results from the POLAR magnetic fields investigation. <i>Advances in Space Research</i> , 1997, 20, 833-839.	1.2	2
98	Comparison of magnetic field models to magnetospheric cusp positions observed by the Polar magnetometer. <i>Journal of Geophysical Research</i> , 2001, 106, 25557-25569.	3.3	2
99	Richard p. Feynman 1918â€”1988. <i>Eos</i> , 1988, 69, 1649.	0.1	1
100	Global-scale imaging: New approaches in magnetospheric research. <i>COSPAR Colloquia Series</i> , 1998, 9, 41-50.	0.2	1
101	Plasma entry, transport, and loss in the magnetosphere and ionosphere. <i>Geophysical Monograph Series</i> , 1999, , 149-159.	0.1	1
102	Genetic testing, biotechnology, and GMOs: A snapshot of public opinion, 2003 through 2004. <i>Genetics in Medicine</i> , 2005, 7, 454-455.	1.1	1
103	Education and Communication for the Magnetospheric Multiscale Mission. <i>Space Science Reviews</i> , 2016, 199, 721-747.	3.7	1
104	CCMC Modeling of Magnetic Reconnection in Electron Diffusion Region Events. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 142-146.	0.0	1
105	Scientific results of the United Statesâ€™ IMS effort. <i>Reviews of Geophysics</i> , 1982, 20, 653-653.	9.0	0
106	The NASA budget in Congress. <i>Eos</i> , 1985, 66, 433.	0.1	0
107	Timeliness, <i>Eos</i> , and the electronic age. <i>Eos</i> , 1986, 67, 25.	0.1	0
108	From the SPR news editor. <i>Eos</i> , 1986, 67, 634.	0.1	0

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109	Looking ahead and looking back. Eos, 1987, 68, 74.	0.1	0
110	A budget we can get behind. Eos, 1988, 69, 138.	0.1	0
111	Other SPR newsletters of interest. Eos, 1988, 69, 573.	0.1	0
112	Polar cap potential drop model (1981). Planetary and Space Science, 1992, 40, 549-550.	0.9	0
113	The image/poetry education and public outreach program. Space Science Reviews, 2000, 91, 497-506.	3.7	0
114	Magnetospheric cusp observations using the image satellite radio plasma imager. Advances in Space Research, 2002, 30, 2267-2272.	1.2	0
115	Recycling of Ions in Mercury's Magnetosphere. Highlights of Astronomy, 2005, 13, 60-63.	0.0	0
116	AGU Scientists Host Teacher Workshop in Ethiopia. Eos, 2008, 89, 99.	0.1	0
117	Morrow, Reiff, Receive 2013 Space Physics and Aeronomy Richard Carrington Awards: Response. Eos, 2014, 95, 300-300.	0.1	0
118	Overview of the Image Science Objectives and Mission Phases. , 2000, , 51-66.		0