Andrew Coates

List of Publications by Year
in descending order

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416 papers	18,344 citations	12303 69 h-index	23472 111 g-index
422 all docs	422 docs citations	422 times ranked	6790 citing authors

#	Article	IF	Citations
1	The Process of Tholin Formation in Titan's Upper Atmosphere. Science, 2007, 316, 870-875.	6.0	585
2	Cassini Plasma Spectrometer Investigation. Space Science Reviews, 2004, 114, 1-112.	3.7	452
3	Black holes, gravitational waves and fundamental physics: a roadmap. Classical and Quantum Gravity, 2019, 36, 143001.	1.5	451
4	PEACE: A PLASMA ELECTRON AND CURRENT EXPERIMENT. Space Science Reviews, 1997, 79, 351-398.	3.7	391
5	Habitability on Early Mars and the Search for Biosignatures with the ExoMars Rover. Astrobiology, 2017, 17, 471-510.	1.5	371
6	Discovery of heavy negative ions in Titan's ionosphere. Geophysical Research Letters, 2007, 34, .	1.5	365
7	Multiâ€instrument analysis of electron populations in Saturn's magnetosphere. Journal of Geophysical Research, 2008, 113, .	3.3	342
8	Composition and Dynamics of Plasma in Saturn's Magnetosphere. Science, 2005, 307, 1262-1266.	6.0	281
9	The Analyzer of Space Plasmas and Energetic Atoms (ASPERA-3) for the Mars Express Mission. Space Science Reviews, 2007, 126, 113-164.	3.7	241
10	Negative ion chemistry in Titan's upper atmosphere. Planetary and Space Science, 2009, 57, 1558-1572.	0.9	240
11	The Analyser of Space Plasmas and Energetic Atoms (ASPERA-4) for the Venus Express mission. Planetary and Space Science, 2007, 55, 1772-1792.	0.9	214
12	Modelling the surface and subsurface Martian radiation environment: Implications for astrobiology. Geophysical Research Letters, 2007, 34, .	1.5	213
13	An active current sheet in the solar wind. Nature, 1985, 318, 269-271.	13.7	179
14	The Interaction of the Atmosphere of Enceladus with Saturn's Plasma. Science, 2006, 311, 1409-1412.	6.0	176
15	The loss of ions from Venus through the plasma wake. Nature, 2007, 450, 650-653.	13.7	168
16	RPC-MAG The Fluxgate Magnetometer in the ROSETTA Plasma Consortium. Space Science Reviews, 2007, 128, 649-670.	3.7	154
17	Warping of Saturn's magnetospheric and magnetotail current sheets. Journal of Geophysical Research, 2008, 113, .	3.3	148
18	A new form of Saturn's magnetopause using a dynamic pressure balance model, based on in situ, multiâ€instrument Cassini measurements. Journal of Geophysical Research, 2010, 115, .	3.3	145

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19	Origin of Saturn's aurora: Simultaneous observations by Cassini and the Hubble Space Telescope. Journal of Geophysical Research, 2008, 113, .	3.3	127
20	Solar wind dynamic pressure and electric field as the main factors controlling Saturn's aurorae. Nature, 2005, 433, 720-722.	13.7	126
21	Aerosol growth in Titanâ€™s ionosphere. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2729-2734.	3.3	126
22	Evidence for rotationally driven plasma transport in Saturn's magnetosphere. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	121
23	Energy deposition and primary chemical products in Titanâ€™s upper atmosphere. Icarus, 2011, 213, 233-251.	1.1	121
24	Velocity space diffusion of pickup ions from the water group at comet Halley. Journal of Geophysical Research, 1989, 94, 9983-9993.	3.3	120
25	The Magnetic Memory of Titan's Ionized Atmosphere. Science, 2008, 321, 1475-1478.	6.0	119
26	Heavy negative ions in Titan's ionosphere: Altitude and latitude dependence. Planetary and Space Science, 2009, 57, 1866-1871.	0.9	117
27	Cassini Finds an Oxygenâ€“Carbon Dioxide Atmosphere at Saturnâ€™s Icy Moon Rhea. Science, 2010, 330, 1813-1815.	6.0	116
28	Plasma Acceleration Above Martian Magnetic Anomalies. Science, 2006, 311, 980-983.	6.0	111
29	Peace: A Plasma Electron and Current Experiment. , 1997, , 351-398.		110
30	Properties of local plasma injections in Saturn's magnetosphere. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	109
31	Magnetic Reconnection in the Near Venusian Magnetotail. Science, 2012, 336, 567-570.	6.0	109
32	Model-data comparisons for Titan's nightside ionosphere. Icarus, 2009, 199, 174-188.	1.1	108
33	Carbon dioxide photoelectron energy peaks at Mars. Icarus, 2006, 182, 371-382.	1.1	105
34	Spectral characteristics of lowâ€frequency plasma turbulence upstream of comet P/Halley. Journal of Geophysical Research, 1989, 94, 37-48.	3.3	104
35	Mass composition of the escaping plasma at Mars. Icarus, 2006, 182, 320-328.	1.1	103
36	Ionospheric electrons in Titan's tail: Plasma structure during the Cassini T9 encounter. Geophysical Research Letters, 2007, 34, .	1.5	103

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37	Determination of comet Halley Gas emission characteristics from mass loading of the solar wind. Journal of Geophysical Research, 1990, 95, 21-30.	3.3	102
38	Mars Express and Venus Express multi-point observations of geoeffective solar flare events in December 2006. Planetary and Space Science, 2008, 56, 873-880.	0.9	102
39	The importance of plasma Î² conditions for magnetic reconnection at Saturn's magnetopause. Geophysical Research Letters, 2012, 39, .	1.5	102
40	Cassini observations of a Kelvinâ€Helmholtz vortex in Saturn's outer magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	100
41	On the amount of heavy molecular ions in Titan's ionosphere. Planetary and Space Science, 2009, 57, 1857-1865.	0.9	96
42	Comparisons between MHD model calculations and observations of Cassini flybys of Titan. Journal of Geophysical Research, 2006, 111, .	3.3	95
43	Cassini observations of Saturn's inner plasmasphere: Saturn orbit insertion results. Planetary and Space Science, 2006, 54, 1197-1210.	0.9	95
44	Evidence for reconnection at Saturn's magnetopause. Journal of Geophysical Research, 2008, 113, .	3.3	94
45	In situ observations of a solar wind compression-induced hot plasma injection in Saturn's tail. Geophysical Research Letters, 2005, 32, .	1.5	92
46	Discrete classification and electron energy spectra of Titan's varied magnetospheric environment. Geophysical Research Letters, 2009, 36, .	1.5	92
47	Magnetospheric period oscillations at Saturn: Comparison of equatorial and highâ€latitude magnetic field periods with north and south Saturn kilometric radiation periods. Journal of Geophysical Research, 2010, 115, .	3.3	92
48	Fieldâ€aligned currents in Saturn's southern nightside magnetosphere: Subcorotation and planetary period oscillation components. Journal of Geophysical Research: Space Physics, 2014, 119, 9847-9899.	0.8	87
49	Fine jet structure of electrically charged grains in Enceladus' plume. Geophysical Research Letters, 2009, 36, .	1.5	86
50	Plasma in Saturn's nightside magnetosphere and the implications for global circulation. Planetary and Space Science, 2009, 57, 1714-1722.	0.9	85
51	A diffusive equilibrium model for the plasma density in Saturn's magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	85
52	Periodic motion of Saturn's nightside plasma sheet. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	84
53	Electron sources in Saturn's magnetosphere. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	83
54	Polarization and phase of planetaryâ€period magnetic field oscillations on highâ€latitude field lines in Saturn's magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	83

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55	Preliminary interpretation of Titan plasma interaction as observed by the Cassini Plasma Spectrometer: Comparisons with Voyager 1. Geophysical Research Letters, 2006, 33, .	1.5	82
56	Initial interpretation of Titan plasma interaction as observed by the Cassini plasma spectrometer: Comparisons with Voyager 1. Planetary and Space Science, 2006, 54, 1211-1224.	0.9	82
57	The auroral footprint of Enceladus on Saturn. Nature, 2011, 472, 331-333.	13.7	82
58	Titan's ionosphere: Model comparisons with Cassini Ta data. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	81
59	Structure of the martian wake. Icarus, 2006, 182, 329-336.	1.1	81
60	Locations of Atmospheric Photoelectron Energy Peaks Within the Mars Environment. Space Science Reviews, 2007, 126, 389-402.	3.7	81
61	Derivation of density and temperature from the Cassiniâ€“Huygens CAPS electron spectrometer. Planetary and Space Science, 2008, 56, 901-912.	0.9	81
62	Plasmoids in Saturn's magnetotail. Journal of Geophysical Research, 2008, 113, .	3.3	79
63	On magnetospheric electron impact ionisation and dynamics in Titan's ram-side and polar ionosphere â€“ a Cassini case study. Annales Geophysicae, 2007, 25, 2359-2369.	0.6	78
64	Plasma Moments in the Environment of Mars. Space Science Reviews, 2007, 126, 165-207.	3.7	77
65	TandEM: Titan and Enceladus mission. Experimental Astronomy, 2009, 23, 893-946.	1.6	77
66	Low-Temperature Ionizing Radiation Resistance ofDeinococcus radioduransand Antarctic Dry Valley Bacteria. Astrobiology, 2010, 10, 717-732.	1.5	76
67	The Mars 2020 Perseverance Rover Mast Camera Zoom (Mastcam-Z) Multispectral, Stereoscopic Imaging Investigation. Space Science Reviews, 2021, 217, 24.	3.7	76
68	Sources of rotational signals in Saturn's magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	74
69	Properties of Saturn kilometric radiation measured within its source region. Geophysical Research Letters, 2010, 37, .	1.5	74
70	The electron density of Saturn's magnetosphere. Annales Geophysicae, 2009, 27, 2971-2991.	0.6	73
71	Bursty magnetic reconnection at Saturn's magnetopause. Geophysical Research Letters, 2013, 40, 1027-1031.	1.5	73
72	Charged nanograins in the Enceladus plume. Journal of Geophysical Research, 2012, 117, .	3.3	71

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73	Dual periodicities in planetaryâ€period magnetic field oscillations in Saturn's tail. Journal of Geophysical Research, 2012, 117, .	3.3	70
74	Fieldâ€aligned currents in Saturn's northern nightside magnetosphere: Evidence for interhemispheric current flow associated with planetary period oscillations. Journal of Geophysical Research: Space Physics, 2015, 120, 7552-7584.	0.8	70
75	Surface waves on Saturn's dawn flank magnetopause driven by the Kelvinâ€“Helmholtz instability. Planetary and Space Science, 2009, 57, 1769-1778.	0.9	68
76	Structure of Titan's ionosphere: Model comparisons with Cassini data. Planetary and Space Science, 2009, 57, 1834-1846.	0.9	68
77	Velocity Space Diffusion and Nongyrotropy of Pickup Water Group Ions at Comet Grigg-Skjellerup. Journal of Geophysical Research, 1993, 98, 20985-20994.	3.3	65
78	Cassini observations of the thermal plasma in the vicinity of Saturn's main rings and the F and G rings. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	65
79	Martian sub-surface ionising radiation: biosignatures and geology. Biogeosciences, 2007, 4, 545-558.	1.3	65
80	A solar storm observed from the Sun to Venus using the STEREO, Venus Express, and MESSENGER spacecraft. Journal of Geophysical Research, 2009, 114, .	3.3	65
81	Location of the bow shock and ion composition boundaries at Venusâ€”initial determinations from Venus Express ASPERA-4. Planetary and Space Science, 2008, 56, 780-784.	0.9	64
82	Heavy ion formation in Titan's ionosphere: Magnetospheric introduction of free oxygen and a source of Titan's aerosols?. Planetary and Space Science, 2009, 57, 1547-1557.	0.9	62
83	Electron acceleration to relativistic energies at a strong quasi-parallel shock wave. Nature Physics, 2013, 9, 164-167.	6.5	62
84	RPC observation of the development and evolution of plasma interaction boundaries at 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S9-S22.	1.6	62
85	Electron temperature of Titan's sunlit ionosphere. Geophysical Research Letters, 2006, 33, .	1.5	61
86	The evolution of solar wind strahl with heliospheric distance. Journal of Geophysical Research: Space Physics, 2017, 122, 3858-3874.	0.8	61
87	Auroral current systems in Saturn's magnetosphere: comparison of theoretical models with Cassini and HST observations. Annales Geophysicae, 2008, 26, 2613-2630.	0.6	60
88	3D global multiâ€species Hallâ€MHD simulation of the Cassini T9 flyby. Geophysical Research Letters, 2007, 34, .	1.5	58
89	Mass of Saturn's magnetodisc: Cassini observations. Geophysical Research Letters, 2007, 34, .	1.5	57
90	Tethys and Dione as sources of outward-flowing plasma in Saturnâ€™s magnetosphere. Nature, 2007, 447, 833-835.	13.7	57

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91	Cassini detection of Enceladus' cold waterâ€group plume ionosphere. Geophysical Research Letters, 2009, 36, .	1.5	57
92	Particle pressure, inertial force, and ring current density profiles in the magnetosphere of Saturn, based on Cassini measurements. Geophysical Research Letters, 2010, 37, .	1.5	57
93	Bulk properties and velocity distributions of water group ions at comet Halley: Giotto measurements. Journal of Geophysical Research, 1990, 95, 10249-10260.	3.3	56
94	Numerical interpretation of high-altitude photoelectron observations. Icarus, 2006, 182, 383-395.	1.1	56
95	Ionospheric photoelectrons: Comparing Venus, Earth, Mars and Titan. Planetary and Space Science, 2011, 59, 1019-1027.	0.9	56
96	Electron circulation in Saturn's magnetosphere. Journal of Geophysical Research, 2008, 113, .	3.3	55
97	Laser-Induced Fluorescence Emission (L.I.F.E.): Searching for Mars Organics with a UV-Enhanced PanCam. Astrobiology, 2009, 9, 953-964.	1.5	55
98	Cassini CAPSâ€ELS observations of negative ions in Titan's ionosphere: Trends of density with altitude. Geophysical Research Letters, 2013, 40, 4481-4485.	1.5	55
99	The PanCam Instrument for the ExoMars Rover. Astrobiology, 2017, 17, 511-541.	1.5	55
100	Electron oscillations in the induced martian magnetosphere. Icarus, 2006, 182, 360-370.	1.1	54
101	Lowâ€frequency electromagnetic plasma waves at comet P/Griggâ€Skjellerup: Analysis and interpretation. Journal of Geophysical Research, 1993, 98, 20937-20953.	3.3	53
102	Preliminary results on Saturn's inner plasmasphere as observed by Cassini: Comparison with Voyager. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	53
103	First ENA observations at Mars: ENA emissions from the martian upper atmosphere. Icarus, 2006, 182, 424-430.	1.1	53
104	The Dust Halo of Saturn's Largest Icy Moon, Rhea. Science, 2008, 319, 1380-1384.	6.0	53
105	Development of the first artificial comet: UKS ion measurements. Advances in Space Research, 1988, 8, 15-21.	1.2	52
106	Upstream of Saturn and Titan. Space Science Reviews, 2011, 162, 25-83.	3.7	52
107	He²⁺ and H⁺ dynamics in the subsolar magnetosheath and plasma depletion layer. Journal of Geophysical Research, 1991, 96, 21095-21104.	3.3	51
108	Cassini observations of planetary-period oscillations of Saturn's magnetopause. Geophysical Research Letters, 2006, 33, .	1.5	51

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109	Analysis of plasma waves observed within local plasma injections seen in Saturn's magnetosphere. Journal of Geophysical Research, 2008, 113, .	3.3	51
110	An empirical model of Saturn's bow shock: Cassini observations of shock location and shape. Journal of Geophysical Research, 2008, 113, .	3.3	51
111	Negative ions in the Enceladus plume. Icarus, 2010, 206, 618-622.	1.1	51
112	Negative ions at Titan and Enceladus: recent results. Faraday Discussions, 2010, 147, 293.	1.6	51
113	Penetrators for in situ subsurface investigations of Europa. Advances in Space Research, 2011, 48, 725-742.	1.2	51
114	The impact of an ICME on the Jovian Xâ€ray aurora. Journal of Geophysical Research: Space Physics, 2016, 121, 2274-2307.	0.8	51
115	Magnetic signatures of plasmaâ€depleted flux tubes in the Saturnian inner magnetosphere. Geophysical Research Letters, 2007, 34, .	1.5	49
116	The independent pulsations of Jupiterâ€™s northern and southern X-ray auroras. Nature Astronomy, 2017, 1, 758-764.	4.2	49
117	Ionospheric plasma acceleration at Mars: ASPERA-3 results. Icarus, 2006, 182, 308-319.	1.1	48
118	Ionospheric photoelectrons at Venus: Initial observations by ASPERA-4 ELS. Planetary and Space Science, 2008, 56, 802-806.	0.9	48
119	Comparative analysis of Venus and Mars magnetotails. Planetary and Space Science, 2008, 56, 812-817.	0.9	48
120	A multiâ€instrument view of tail reconnection at Saturn. Journal of Geophysical Research, 2008, 113, .	3.3	48
121	Magnetopause oscillations near the planetary period at Saturn: Occurrence, phase, and amplitude. Journal of Geophysical Research, 2010, 115, .	3.3	48
122	Cassini evidence for rapid interchange transport at Saturn. Planetary and Space Science, 2009, 57, 1779-1784.	0.9	47
123	Cassini observations of ion and electron beams at Saturn and their relationship to infrared auroral arcs. Journal of Geophysical Research, 2012, 117, .	3.3	47
124	The Cassini CAPS Electron Spectrometer. Geophysical Monograph Series, 0, , 257-262.	0.1	47
125	The AMPTE UKS Three-Dimensional Ion Experiment. IEEE Transactions on Geoscience and Remote Sensing, 1985, GE-23, 287-292.	2.7	45
126	Carbon Chain Anions and the Growth of Complex Organic Molecules in Titanâ€™s Ionosphere. Astrophysical Journal Letters, 2017, 844, L18.	3.0	45

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127	Characterization of auroral current systems in Saturn's magnetosphere: Highâ€latitude Cassini observations. Journal of Geophysical Research, 2009, 114, .	3.3	44
128	Ionization sources in Titan's deep ionosphere. Journal of Geophysical Research, 2010, 115, .	3.3	44
129	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. Experimental Astronomy, 2012, 33, 753-791.	1.6	44
130	The Giotto three-dimensional positive ion analyser. Journal of Physics E: Scientific Instruments, 1987, 20, 795-805.	0.7	43
131	Interaction of Titan's ionosphere with Saturn's magnetosphere. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 773-788.	1.6	43
132	Cassini in Titan's tail: CAPS observations of plasma escape. Journal of Geophysical Research, 2012, 117, .	3.3	43
133	Ion pickup at comets. Advances in Space Research, 2004, 33, 1977-1988.	1.2	42
134	First ENA observations at Mars: Subsolar ENA jet. Icarus, 2006, 182, 413-423.	1.1	42
135	Detection of exospheric O₂⁺ at Saturn's moon Dione. Geophysical Research Letters, 2012, 39, .	1.5	42
136	Context for the ESA ExoMars rover: the Panoramic Camera (PanCam) instrument. International Journal of Astrobiology, 2006, 5, 269-275.	0.9	41
137	Thermal electron periodicities at 20R_S in Saturn's magnetosphere. Geophysical Research Letters, 2008, 35, .	1.5	41
138	Plasma electrons in Saturn's magnetotail: Structure, distribution and energisation. Planetary and Space Science, 2009, 57, 2032-2047.	0.9	41
139	Timeâ€dependent global MHD simulations of Cassini T32 flyby: From magnetosphere to magnetosheath. Journal of Geophysical Research, 2009, 114, .	3.3	41
140	Saturn's magnetospheric interaction with Titan as defined by Cassini encounters T9 and T18: New results. Planetary and Space Science, 2010, 58, 327-350.	0.9	41
141	Pickup water group ions at comet Griggâ€Skjellerup. Geophysical Research Letters, 1993, 20, 483-486.	1.5	40
142	Charged particle environment of Titan during the T9 flyby. Geophysical Research Letters, 2007, 34, .	1.5	40
143	Plasma environment of Jupiter family comets. Planetary and Space Science, 2009, 57, 1175-1191.	0.9	40
144	Dynamics and seasonal variations in Saturn's magnetospheric plasma sheet, as measured by Cassini. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	40

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145	Plasma electrons above Saturn's main rings: CAPS observations. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	39
146	First ENA observations at Mars: Charge exchange ENAs produced in the magnetosheath. Icarus, 2006, 182, 431-438.	1.1	39
147	Thickness of Saturn's ring current determined from northâ€south Cassini passes through the current layer. Journal of Geophysical Research, 2009, 114, .	3.3	39
148	Saturn's ring current: Local time dependence and temporal variability. Journal of Geophysical Research, 2011, 116, .	3.3	39
149	Internally driven largeâ€scale changes in the size of Saturn's magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 7289-7306.	0.8	39
150	Estimation of the escape of photoelectrons from Mars in 2004 liberated by the ionization of carbon dioxide and atomic oxygen. Icarus, 2010, 206, 50-63.	1.1	38
151	Constraints on a potential aerial biosphere on Venus: I. Cosmic rays. Icarus, 2015, 257, 396-405.	1.1	38
152	Flux transfer event observation at Saturn's dayside magnetopause by the Cassini spacecraft. Geophysical Research Letters, 2016, 43, 6713-6723.	1.5	38
153	The global plasma environment of Titan as observed by Cassini Plasma Spectrometer during the first two close encounters with Titan. Geophysical Research Letters, 2005, 32, .	1.5	37
154	Signatures of fieldâ€aligned currents in Saturn's nightside magnetosphere. Geophysical Research Letters, 2009, 36, .	1.5	37
155	Saturn's low-latitude boundary layer: 1. Properties and variability. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	37
156	Observations of magnetic anomaly signatures in Mars Express ASPERA-3 ELS data. Icarus, 2006, 182, 396-405.	1.1	36
157	Surface waves on Saturn's magnetopause. Planetary and Space Science, 2012, 65, 109-121.	0.9	36
158	Saturn's auroral morphology and activity during quiet magnetospheric conditions. Journal of Geophysical Research, 2006, 111, .	3.3	35
159	Plasma intrusion above Mars crustal fieldsâ€”Mars Express ASPERA-3 observations. Icarus, 2006, 182, 406-412.	1.1	35
160	Statistical characteristics of field-aligned currents in Saturn's nightside magnetosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	35
161	Auroral electron distributions within and close to the Saturn kilometric radiation source region. Journal of Geophysical Research, 2011, 116, .	3.3	35
162	Electron heating at Saturn's bow shock. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	35

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163	Hot flow anomalies at Venus. Journal of Geophysical Research, 2012, 117, .	3.3	35
164	Cassini in situ observations of long-duration magnetic reconnection in Saturnâ€™s magnetotail. Nature Physics, 2016, 12, 268-271.	6.5	35
165	Plasma parameters near the comet Halley bow shock. Journal of Geophysical Research, 1990, 95, 20701-20716.	3.3	34
166	Ion escape at Mars: Comparison of a 3-D hybrid simulation with Mars Express IMA/ASPERA-3 measurements. Icarus, 2006, 182, 350-359.	1.1	34
167	Structure of Titan's midâ€range magnetic tail: Cassini magnetometer observations during the T9 flyby. Geophysical Research Letters, 2007, 34, .	1.5	34
168	Magnetospheric period oscillations of Saturn's bow shock. Journal of Geophysical Research, 2010, 115, .	3.3	34
169	Structured ionospheric outflow during the Cassini T55â€“T59 Titan flybys. Planetary and Space Science, 2011, 59, 788-797.	0.9	34
170	Neptune and Triton: Essential pieces of the Solar System puzzle. Planetary and Space Science, 2014, 104, 108-121.	0.9	34
171	Cusp observation at Saturn's highâ€latitude magnetosphere by the Cassini spacecraft. Geophysical Research Letters, 2014, 41, 1382-1388.	1.5	34
172	Influence of hot plasma pressure on the global structure of Saturnâ€™s magnetodisk. Geophysical Research Letters, 2010, 37, .	1.5	33
173	In situ observations of the effect of a solar wind compression on Saturn's magnetotail. Journal of Geophysical Research, 2010, 115, .	3.3	33
174	Particle and magnetic field properties of the Saturnian magnetosheath: Presence and upstream escape of hot magnetospheric plasma. Journal of Geophysical Research: Space Physics, 2013, 118, 1620-1634.	0.8	33
175	The effect of spacecraft radiation sources on electron moments from the Cassini CAPS electron spectrometer. Planetary and Space Science, 2009, 57, 854-869.	0.9	32
176	Hot flow anomalies at Saturn's bow shock. Journal of Geophysical Research, 2009, 114, .	3.3	32
177	Rotationally driven magnetic reconnection in Saturnâ€™s dayside. Nature Astronomy, 2018, 2, 640-645.	4.2	32
178	Pre-flight Calibration and Near-Earth Commissioning Results of the Mercury Plasma Particle Experiment (MPPE) Onboard MMO (Mio). Space Science Reviews, 2021, 217, 1.	3.7	32
179	On the cause of Saturn's plasma periodicity. Geophysical Research Letters, 2008, 35, .	1.5	31
180	The calibration of the Cassiniâ€“Huygens CAPS Electron Spectrometer. Planetary and Space Science, 2010, 58, 427-436.	0.9	31

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181	Electron beams as the source of whistlerâ€mode auroral hiss at Saturn. Geophysical Research Letters, 2010, 37, .	1.5	31
182	Extraordinary fieldâ€aligned current signatures in Saturn's highâ€latitude magnetosphere: Analysis of Cassini data during Revolution 89. Journal of Geophysical Research, 2010, 115, .	3.3	31
183	The electric wind of Venus: A global and persistent â€œpolar windâ€â€like ambipolar electric field sufficient for the direct escape of heavy ionospheric ions. Geophysical Research Letters, 2016, 43, 5926-5934.	1.5	31
184	Energy Deposition Processes in Titan's Upper Atmosphere and Its Induced Magnetosphere. , 2009, , 393-453.		31
185	Ionospheric photoelectrons observed in the magnetosphere at distances up to 7 earth radii. Planetary and Space Science, 1985, 33, 1267-1275.	0.9	30
186	Comparison of observed and calculated implanted ion distributions outside comet Halley's bow shock. Journal of Geophysical Research, 1991, 96, 9467-9477.	3.3	30
187	Electron optical study of the Venus Express ASPERA-4 Electron Spectrometer (ELS) top-hat electrostatic analyser. Measurement Science and Technology, 2009, 20, 055204.	1.4	30
188	AXIOM: advanced X-ray imaging of the magnetosphere. Experimental Astronomy, 2012, 33, 403-443.	1.6	30
189	The interstellar hydrogen shadow: Observations of interstellar pickup ions beyond Jupiter. Journal of Geophysical Research, 2004, 109, .	3.3	29
190	Giotto measurements of cometary and solar wind plasma at the Comet Halley bow shock. Nature, 1987, 327, 489-492.	13.7	28
191	Auroral Plasma Acceleration Above Martian Magnetic Anomalies. Space Science Reviews, 2007, 126, 333-354.	3.7	28
192	Selecting the geology filter wavelengths for the ExoMars Panoramic Camera instrument. Planetary and Space Science, 2012, 71, 80-100.	0.9	28
193	The Spectrum and Energy Density of Solar Wind Turbulence of Cometary Origin. Geophysical Monograph Series, 2013, , 259-271.	0.1	28
194	Ionospheres and magnetospheres of comets. Advances in Space Research, 1997, 20, 255-266.	1.2	27
195	First ENA observations at Mars: Solar-wind ENAs on the nightside. Icarus, 2006, 182, 439-447.	1.1	27
196	Nature of the ring current in Saturn's dayside magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	27
197	Ion distributions of different Kronian plasma regions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	27
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