

Geraint H Jones

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140
papers

3,715
citations

36
h-index

52
g-index

163
ext. papers

4,034
ext. citations

6.8
avg, IF

4.8
L-index

#	Paper	IF	Citations
140	Deep Impact: observations from a worldwide Earth-based campaign. <i>Science</i> , 2005 , 310, 265-9	33.3	168
139	A new form of Saturn's magnetopause using a dynamic pressure balance model, based on in situ, multi-instrument Cassini measurements. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		134
138	Titan's magnetic field signature during the first Cassini encounter. <i>Science</i> , 2005 , 308, 992-5	33.3	130
137	Cassini finds an oxygen-carbon dioxide atmosphere at Saturn's icy moon Rhea. <i>Science</i> , 2010 , 330, 1813-5	33.3	108
136	Interplanetary magnetic field at ~9 AU during the declining phase of the solar cycle and its implications for Saturn's magnetospheric dynamics. <i>Journal of Geophysical Research</i> , 2004 , 109,		103
135	Heavy negative ions in Titan's ionosphere: Altitude and latitude dependence. <i>Planetary and Space Science</i> , 2009 , 57, 1866-1871	2	102
134	Fine jet structure of electrically charged grains in Enceladus' plume. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	79
133	The auroral footprint of Enceladus on Saturn. <i>Nature</i> , 2011 , 472, 331-3	50.4	77
132	Titan's near magnetotail from magnetic field and electron plasma observations and modeling: Cassini flybys TA, TB, and T3. <i>Journal of Geophysical Research</i> , 2006 , 111,		77
131	Charged nanograins in the Enceladus plume. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		65
130	A solar storm observed from the Sun to Venus using the STEREO, Venus Express, and MESSENGER spacecraft. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		61
129	The domination of Saturn's low-latitude ionosphere by ring 'rain'. <i>Nature</i> , 2013 , 496, 193-5	50.4	60
128	Sources and losses of energetic protons in Saturn's magnetosphere. <i>Icarus</i> , 2008 , 197, 519-525	3.8	60
127	Electron microdiffusion in the Saturnian radiation belts: Cassini MIMI/LEMMS observations of energetic electron absorption by the icy moons. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		58
126	Enceladus' varying imprint on the magnetosphere of Saturn. <i>Science</i> , 2006 , 311, 1412-5	33.3	56
125	Cassini CAPS-ELS observations of negative ions in Titan's ionosphere: Trends of density with altitude. <i>Geophysical Research Letters</i> , 2013 , 40, 4481-4485	4.9	53
124	Cassini detection of Enceladus' cold water-group plume ionosphere. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	53

123	Discovery of a transient radiation belt at Saturn. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	51
122	The dust halo of Saturn's largest icy moon, Rhea. <i>Science</i> , 2008 , 319, 1380-4	33.3	50
121	The source of Saturn's G ring. <i>Science</i> , 2007 , 317, 653-6	33.3	50
120	The evolution of solar wind strahl with heliospheric distance. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3858-3874	2.6	49
119	Negative ions at Titan and Enceladus: recent results. <i>Faraday Discussions</i> , 2010 , 147, 293-305; discussion 379-403	3.6	47
118	A multi-instrument view of tail reconnection at Saturn. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		47
117	Charge Exchange Emission from Solar Wind Helium Ions. <i>Astrophysical Journal</i> , 2006 , 642, 593-605	4.7	47
116	Modeling the Dynamics of Cometary Fragments: Application to Comet C/1996 B2 Hyakutake. <i>Icarus</i> , 2000 , 144, 172-181	3.8	44
115	Energetic particles in Saturn's magnetosphere during the Cassini nominal mission (July 2004-July 2008). <i>Planetary and Space Science</i> , 2009 , 57, 1754-1768	2	43
114	Negative ions in the Enceladus plume. <i>Icarus</i> , 2010 , 206, 618-622	3.8	42
113	The Science of Sungrazers, Sunskirters, and Other Near-Sun Comets. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	41
112	The European Space Agency's Comet Interceptor lies in wait. <i>Nature Communications</i> , 2019 , 10, 5418	17.4	41
111	Penetrators for in situ subsurface investigations of Europa. <i>Advances in Space Research</i> , 2011 , 48, 725-742	2.4	40
110	Detection of exospheric O ₂ ⁺ at Saturn's moon Dione. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	39
109	Cassini in Titan's tail: CAPS observations of plasma escape. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		39
108	Mapping Magnetospheric Equatorial Regions at Saturn from Cassini Prime Mission Observations. <i>Space Science Reviews</i> , 2011 , 164, 1-83	7.5	39
107	Long- and short-term variability of Saturn's ionic radiation belts. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		37
106	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. <i>Experimental Astronomy</i> , 2012 , 33, 753-791	1.3	36

105	Plasma environment of Jupiter family comets. <i>Planetary and Space Science</i> , 2009 , 57, 1175-1191	2	36
104	Radial heliospheric magnetic fields detected by Ulysses. <i>Geophysical Research Letters</i> , 1998 , 25, 3109-3112	2	36
103	The independent pulsations of Jupiter's northern and southern X-ray auroras. <i>Nature Astronomy</i> , 2017 , 1, 758-764	12.1	34
102	Surface waves on Saturn's magnetopause. <i>Planetary and Space Science</i> , 2012 , 65, 109-121	2	32
101	The effect of spacecraft radiation sources on electron moments from the Cassini CAPS electron spectrometer. <i>Planetary and Space Science</i> , 2009 , 57, 854-869	2	32
100	The draping of heliospheric magnetic fields upstream of coronal mass ejecta. <i>Geophysical Research Letters</i> , 2002 , 29, 15-1	4.9	32
99	Identification of comet Hyakutake's extremely long ion tail from magnetic field signatures. <i>Nature</i> , 2000 , 404, 574-6	50.4	32
98	Cusp observation at Saturn's high-latitude magnetosphere by the Cassini spacecraft. <i>Geophysical Research Letters</i> , 2014 , 41, 1382-1388	4.9	31
97	Carbon Chain Anions and the Growth of Complex Organic Molecules in Titan's Ionosphere. <i>Astrophysical Journal Letters</i> , 2017 , 844, L18	7.9	31
96	Flux transfer event observation at Saturn's dayside magnetopause by the Cassini spacecraft. <i>Geophysical Research Letters</i> , 2016 , 43, 6713-6723	4.9	31
95	Energetic charged particle weathering of Saturn's inner satellites. <i>Planetary and Space Science</i> , 2012 , 61, 60-65	2	30
94	The calibration of the Cassini-Huygens CAPS Electron Spectrometer. <i>Planetary and Space Science</i> , 2010 , 58, 427-436	2	30
93	Constraints on a potential aerial biosphere on Venus: I. Cosmic rays. <i>Icarus</i> , 2015 , 257, 396-405	3.8	29
92	Neptune and Triton: Essential pieces of the Solar System puzzle. <i>Planetary and Space Science</i> , 2014 , 104, 108-121	2	27
91	In situ collection of dust grains falling from Saturn's rings into its atmosphere. <i>Science</i> , 2018 , 362,	33.3	27
90	Ice Giant Systems: The scientific potential of orbital missions to Uranus and Neptune. <i>Planetary and Space Science</i> , 2020 , 191, 105030	2	26
89	The EChO science case. <i>Experimental Astronomy</i> , 2015 , 40, 329-391	1.3	26
88	Intense plasma wave emissions associated with Saturn's moon Rhea. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	26

87	Cometary Ions Trapped in a Coronal Mass Ejection. <i>Astrophysical Journal</i> , 2004 , 604, L121-L124	4.7	26
86	Low energy electron microsignatures at the orbit of Tethys: Cassini MIMI/LEMMS observations. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	25
85	Formation of Saturn's ring spokes by lightning-induced electron beams. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	25
84	Ionization of the venusian atmosphere from solar and galactic cosmic rays. <i>Icarus</i> , 2015 , 245, 80-86	3.8	24
83	Context and heliographic dependence of heliospheric planar magnetic structures. <i>Journal of Geophysical Research</i> , 2000 , 105, 12713-12724		24
82	The 67P/Churyumov-Gerasimenko observation campaign in support of the Rosetta mission. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	23
81	Doubly ionized carbon observed in the plasma tail of comet Kudo-Fujikawa. <i>Science</i> , 2003 , 302, 1949-52	33.3	23
80	Energetic electron signatures of Saturn's smaller moons: Evidence of an arc of material at Methone. <i>Icarus</i> , 2008 , 193, 455-464	3.8	22
79	Solar magnetic field reversal as seen at Ulysses. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	22
78	Cassini observations of ionospheric photoelectrons at large distances from Titan: Implications for Titan's exospheric environment and magnetic tail. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		21
77	AXIOM: advanced X-ray imaging of the magnetosphere. <i>Experimental Astronomy</i> , 2012 , 33, 403-443	1.3	21
76	The Castalia mission to Main Belt Comet 133P/Elst-Pizarro. <i>Advances in Space Research</i> , 2018 , 62, 1947-1976	1.7	20
75	Auroral electron precipitation and flux tube erosion in Titan's upper atmosphere. <i>Icarus</i> , 2013 , 226, 186-204	3.8	20
74	Two fundamentally different drivers of dipolarizations at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4348-4356	2.6	20
73	Corotating Magnetic Reconnection Site in Saturn's Magnetosphere. <i>Astrophysical Journal Letters</i> , 2017 , 846, L25	7.9	20
72	Energetic electron observations of Rhea's magnetospheric interaction. <i>Icarus</i> , 2012 , 221, 116-134	3.8	20
71	Auroral hiss, electron beams and standing Alfvén wave currents near Saturn's moon Enceladus. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	20
70	Electrostatic solitary waves observed at Saturn by Cassini inside 10 Rs and near Enceladus. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 6569-6580	2.6	19

69	Comet Hyakutake Gas Arcs: First Observational Evidence of Standing Shock Waves in a Cometary Coma. <i>Icarus</i> , 1998 , 136, 232-267	3.8	19
68	A radiation belt of energetic protons located between Saturn and its rings. <i>Science</i> , 2018 , 362,	33.3	19
67	Diffuse Rings 2009 , 511-536		19
66	The perihelion activity of comet 67P/Churyumov-Gerasimenko as seen by robotic telescopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 462, S138-S145	4.3	18
65	Access of energetic particles to Titan's exobase: A study of Cassini's T9 flyby. <i>Planetary and Space Science</i> , 2016 , 130, 40-53	2	18
64	Surface charging and electrostatic dust acceleration at the nucleus of comet 67P during periods of low activity. <i>Planetary and Space Science</i> , 2015 , 119, 24-35	2	18
63	The Charging of Planetary Rings. <i>Space Science Reviews</i> , 2008 , 137, 435-453	7.5	18
62	Strong interplanetary field enhancements at Ulysses—evidence of dust trails' interaction with the solar wind?. <i>Icarus</i> , 2003 , 166, 297-310	3.8	17
61	Surface charging of Saturn's plasma-absorbing moons. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		16
60	Swift X-Ray Telescope Observations of the Deep Impact Collision. <i>Astrophysical Journal</i> , 2006 , 649, 541-552	7	16
59	Close Cassini flybys of Saturn's ring moons Pan, Daphnis, Atlas, Pandora, and Epimetheus. <i>Science</i> , 2019 , 364,	33.3	15
58	A model of the spatial and size distribution of Enceladus' dust plume. <i>Planetary and Space Science</i> , 2014 , 104, 216-233	2	14
57	Observations of heliospheric planar and offset-planar magnetic structures. <i>Geophysical Research Letters</i> , 1999 , 26, 13-16	4.9	14
56	The Cassini Enceladus encounters 2005–2010 in the view of energetic electron measurements. <i>Icarus</i> , 2012 , 218, 433-447	3.8	13
55	The near-surface electron radiation environment of Saturn's moon Mimas. <i>Icarus</i> , 2017 , 286, 56-68	3.8	12
54	A new upper limit to the field-aligned potential near Titan. <i>Geophysical Research Letters</i> , 2015 , 42, 4676-4684	4.9	12
53	Photoelectrons in the Enceladus plume. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5099-5108	5.1	12
52	Cassini observations of Saturn's southern polar cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 3006-3030	2.6	12

51	Current sheets in comet 67P/Churyumov-Gerasimenko's coma. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3308-3321	2.6	11
50	Virtual Planetary Space Weather Services offered by the Europlanet H2020 Research Infrastructure. <i>Planetary and Space Science</i> , 2018 , 150, 50-59	2	11
49	Possible Distortion of the Interplanetary Magnetic Field by the Dust Trail of Comet 122P/de Vico. <i>Astrophysical Journal</i> , 2003 , 597, L61-L64	4.7	11
48	The interaction of comet 153P/Ikeya-Zhang with interplanetary coronal mass ejections: Identification of fast ICME signatures. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	11
47	Sources, Sinks, and Transport of Energetic Electrons Near Saturn's Main Rings. <i>Geophysical Research Letters</i> , 2019 , 46, 3590-3598	4.9	11
46	Ionospheric photoelectrons at Venus: Case studies and first observation in the tail. <i>Planetary and Space Science</i> , 2015 , 113-114, 385-394	2	10
45	Detection of a strongly negative surface potential at Saturn's moon Hyperion. <i>Geophysical Research Letters</i> , 2014 , 41, 7011-7018	4.9	10
44	An indication of the existence of a solar wind strahl at 10 AU. <i>Geophysical Research Letters</i> , 2013 , 40, 2495-2499	4.9	10
43	The global heliospheric magnetic field polarity distribution as seen at Ulysses. <i>Annales Geophysicae</i> , 2003 , 21, 1377-1382	2	10
42	Survey of pickup ion signatures in the vicinity of Titan using CAPS/IMS. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8317-8328	2.6	9
41	Modeling the total dust production of Enceladus from stochastic charge equilibrium and simulations. <i>Planetary and Space Science</i> , 2015 , 119, 208-221	2	9
40	Heavy negative ion growth in Titan's polar winter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 490, 2254-2261	4.3	8
39	Modeling of electron fluxes in the Enceladus plume. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		8
38	Kronos: exploring the depths of Saturn with probes and remote sensing through an international mission. <i>Experimental Astronomy</i> , 2009 , 23, 947-976	1.3	8
37	Exocomets from a Solar System Perspective. <i>Publications of the Astronomical Society of the Pacific</i> , 2020 , 132, 101001	5	8
36	Cassini plasma observations of Saturn's magnetospheric cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 12,047-12,067	2.6	8
35	Saturn's Open-Closed Field Line Boundary: A Cassini Electron Survey at Saturn's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 10018-10035	2.6	8
34	The proposed Caroline ESA M3 mission to a Main Belt Comet. <i>Advances in Space Research</i> , 2018 , 62, 1921-1946	7	7

33	Swift ultraviolet photometry of the Deep Impact encounter with Comet 9P/Tempel 1. <i>Icarus</i> , 2007 , 187, 123-131	3.8	7
32	LOTUS: a low-cost, ultraviolet spectrograph. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 460, 4268-4276	4.3	6
31	A high-latitude interplanetary magnetic field enhancement at Ulysses. <i>Journal of Geophysical Research</i> , 2002 , 107, SSH 2-1		6
30	Cassini CAPS Identification of Pickup Ion Compositions at Rhea. <i>Geophysical Research Letters</i> , 2018 , 45, 1704-1712	4.9	5
29	Planar Structuring of Magnetic Fields at Solar Minimum and Maximum 2001 , 97, 165-168		5
28	Potential Backup Targets for Comet Interceptor. <i>Research Notes of the AAS</i> , 2020 , 4, 21	0.8	5
27	Magnetospheric Interactions of Saturn's Moon Dione (2005-2015). <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027688	2.6	5
26	Polarimetry of comets 67P/Churyumov-Terasimenko, 74P/Smirnova-Tchernykh, and 152P/Helin-Lawrence. <i>Astronomy and Astrophysics</i> , 2016 , 594, A110	5.1	5
25	Fine-scale structure in cometary dust tails I: Analysis of striae in Comet C/2006 P1 (McNaught) through temporal mapping. <i>Icarus</i> , 2019 , 319, 540-557	3.8	5
24	Cometary science after Rosetta. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	4
23	Diamagnetic depression observations at Saturn's magnetospheric cusp by the Cassini spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 6283-6303	2.6	4
22	Observations of structures within the Grigg-Skjellerup cometosheath. <i>Advances in Space Research</i> , 1997 , 20, 271-274	2.4	4
21	Statistical Study of the Energetic Proton Environment at Titan's Orbit From the Cassini Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4820-4834	2.6	4
20	Modeling, Analysis, and Interpretation of Photoelectron Energy Spectra at Enceladus Observed by Cassini. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 287-296	2.6	3
19	The Interaction of C/1995 O1 Hale-Bopp with the Solar Wind as recorded in CoCam Images: A Progress Report 1997 , 77, 281-281		3
18	GAUSS - genesis of asteroids and evolution of the solar system. <i>Experimental Astronomy</i> , 1	1.3	3
17	Detection of Negative Pickup Ions at Saturn's Moon Dione. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087543	4.9	3
16	Field-Aligned Photoelectron Energy Peaks at High Altitude and on the Nightside of Titan. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006252	4.1	2

15	SARIM PLUS sample return of comet 67P/CG and of interstellar matter. <i>Experimental Astronomy</i> , 2012 , 33, 723-751	1.3	2
14	Statistical studies of energetic electrons in the outer radiation belt. <i>Radiation Measurements</i> , 1999 , 30, 625-632	1.5	2
13	Enceladus as a potential oasis for life: Science goals and investigations for future explorations. <i>Experimental Astronomy</i> , 1	1.3	2
12	Prospects for the In Situ detection of Comet C/2019 Y4 ATLAS by Solar Orbiter. <i>Research Notes of the AAS</i> , 2020 , 4, 62	0.8	2
11	Planar Structuring of Magnetic Fields at Solar Minimum and Maximum 2001 , 165-168		2
10	Ice giant system exploration within ESA's Voyage 2050. <i>Experimental Astronomy</i> , 1	1.3	2
9	Fast and Slow Water Ion Populations in the Enceladus Plume. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027591	2.6	1
8	Dynamics of HVECs emitted from comet C/2011 L4 as observed by STEREO. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5329-5340	2.6	1
7	AXIOM: Advanced X-ray imaging of the magnetosheath. <i>Astronomische Nachrichten</i> , 2012 , 333, 388-392	0.7	1
6	Nanodust Measurements by the Cassini Plasma Spectrometer. <i>Astrophysics and Space Science Library</i> , 2012 , 119-132	0.3	1
5	Telecentric F-theta fisheye lens for space applications. <i>OSA Continuum</i> , 2021 , 4, 783	1.4	1
4	ESA F-Class Comet Interceptor: Trajectory design to intercept a yet-to-be-discovered comet. <i>Acta Astronautica</i> , 2021 , 188, 265-277	2.9	1
3	The in-situ exploration of Jupiter's radiation belts. <i>Experimental Astronomy</i> , 1	1.3	0
2	Heavy Positive Ion Groups in Titan's Ionosphere from Cassini Plasma Spectrometer IBS Observations. <i>Planetary Science Journal</i> , 2021 , 2, 26	2.9	0
1	The Charging of Planetary Rings. <i>Space Sciences Series of ISSI</i> , 2008 , 435-453	0.1	