

Howard Smith

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,177
citations

218677

26
h-index

233421

45
g-index

52
all docs

52
docs citations

52
times ranked

1097
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition and Dynamics of Plasma in Saturn's Magnetosphere. <i>Science</i> , 2005, 307, 1262-1266.	12.6	281
2	Ion and neutral sources and sinks within Saturn's inner magnetosphere: Cassini results. <i>Planetary and Space Science</i> , 2008, 56, 3-18.	1.7	119
3	The Enceladus and OH Tori at Saturn. <i>Astrophysical Journal</i> , 2006, 644, L137-L139.	4.5	116
4	Production, ionization and redistribution of O ₂ in Saturn's ring atmosphere. <i>Icarus</i> , 2006, 180, 393-402.	2.5	102
5	Cassini observations of Saturn's inner plasmasphere: Saturn orbit insertion results. <i>Planetary and Space Science</i> , 2006, 54, 1197-1210.	1.7	95
6	Enceladus plume variability and the neutral gas densities in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	93
7	Discrete classification and electron energy spectra of Titan's varied magnetospheric environment. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	92
8	Electron sources in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	83
9	Preliminary interpretation of Titan plasma interaction as observed by the Cassini Plasma Spectrometer: Comparisons with Voyager 1. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	82
10	Initial interpretation of Titan plasma interaction as observed by the Cassini plasma spectrometer: Comparisons with Voyager 1. <i>Planetary and Space Science</i> , 2006, 54, 1211-1224.	1.7	82
11	Understanding the escape of water from Enceladus. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	77
12	Sputtering of ice grains and icy satellites in Saturn's inner magnetosphere. <i>Planetary and Space Science</i> , 2008, 56, 1238-1243.	1.7	56
13	Preliminary results on Saturn's inner plasmasphere as observed by Cassini: Comparison with Voyager. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	53
14	Enceladus: The likely dominant nitrogen source in Saturn's magnetosphere. <i>Icarus</i> , 2007, 188, 356-366.	2.5	47
15	Cassini detection of water group pickup ions in the Enceladus torus. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	47
16	Cassini evidence for rapid interchange transport at Saturn. <i>Planetary and Space Science</i> , 2009, 57, 1779-1784.	1.7	47
17	Mass Loss Processes in Titan's Upper Atmosphere. , 2009, , 373-391.		42
18	Titan's atomic and molecular nitrogen tori. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	40

#	ARTICLE	IF	CITATIONS
19	Mapping Magnetospheric Equatorial Regions at Saturn from Cassini Prime Mission Observations. Space Science Reviews, 2011, 164, 1-83.	8.1	40
20	Charge states of energetic oxygen and sulfur ions in Jupiter's magnetosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 2264-2273.	2.4	38
21	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, .	4.0	37
22	Dust grains fall from Saturn's D-ring into its equatorial upper atmosphere. Science, 2018, 362, .	12.6	37
23	Observations of molecular oxygen ions in Saturn's inner magnetosphere. Geophysical Research Letters, 2008, 35, .	4.0	35
24	Titan interaction with Saturn's magnetosphere: Voyager 1 results revisited. Journal of Geophysical Research, 2005, 110, .	3.3	33
25	Enceladus: A potential source of ammonia products and molecular nitrogen for Saturn's magnetosphere. Journal of Geophysical Research, 2008, 113, .	3.3	33
26	Investigation of energetic proton penetration in Titan's atmosphere using the Cassini INCA instrument. Planetary and Space Science, 2009, 57, 1538-1546.	1.7	31
27	Discovery of nitrogen in Saturn's inner magnetosphere. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	28
28	A radiation belt of energetic protons located between Saturn and its rings. Science, 2018, 362, .	12.6	27
29	Europa Neutral Torus Confirmation and Characterization Based on Observations and Modeling. Astrophysical Journal, 2019, 871, 69.	4.5	26
30	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. Space Science Reviews, 2021, 217, 11.	8.1	26
31	THE IMPLANTATION AND INTERACTIONS OF O ⁺ IN TITAN'S ATMOSPHERE: LABORATORY MEASUREMENTS OF COLLISION-INDUCED DISSOCIATION OF N ₂ AND MODELING OF POSITIVE ION FORMATION. Astrophysical Journal, 2009, 703, 1947-1954.	4.5	25
32	Cassini INMS observations of neutral molecules in Saturn's E-ring. Journal of Geophysical Research, 2010, 115, .	3.3	25
33	Exospheres and Energetic Neutral Atoms of Mars, Venus and Titan. Space Science Reviews, 2011, 162, 213-266.	8.1	25
34	Saturn Plasma Sources and Associated Transport Processes. Space Science Reviews, 2015, 192, 237-283.	8.1	25
35	Identification of Saturn's magnetospheric regions and associated plasma processes: Synopsis of Cassini observations during orbit insertion. Reviews of Geophysics, 2008, 46, .	23.0	23
36	Energetic nitrogen ions within the inner magnetosphere of Saturn. Journal of Geophysical Research, 2006, 111, .	3.3	20

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37	Water-Group Pickup Ions From Europa-Genic Neutrals Orbiting Jupiter. Geophysical Research Letters, 2022, 49, .	4.0	16
38	The observed composition of ions outflowing from Titan. Geophysical Research Letters, 2012, 39, .	4.0	12
39	An empirical model for the plasma environment along Titan's orbit based on Cassini plasma observations. Journal of Geophysical Research: Space Physics, 2014, 119, 5674-5684.	2.4	12
40	Ion composition in Titan's exosphere via the Cassini Plasma Spectrometer I: T40 encounter. Journal of Geophysical Research: Space Physics, 2015, 120, 212-234.	2.4	7
41	Saturn's Diffuse E Ring and Its Connection with Enceladus. , 2018, , .		7
42	Le satellite Encelade source d'ions N+ dans la magnÃ©tosphÃ©re de Saturne. Comptes Rendus Physique, 2005, 6, 1176-1181.	0.9	4
43	The 3D Structure of Saturn Magnetospheric Neutral Tori Produced by the Enceladus Plumes. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028775.	2.4	4
44	Loss of Energetic Ions Comprising the Ring Current Populations of Jupiter's Middle and Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	4
45	Enceladus and Its Influence on Saturn's Magnetosphere. , 2018, , .		3
46	Neutral Clouds and Their Influence on Pick-up Ions in Saturn's Magnetosphere. , 2010, , .		1
47	Saturn Plasma Sources and Associated Transport Processes. Space Sciences Series of ISSI, 2016, , 237-283.	0.0	1
48	Jupiter System Observatory at Sun-Jupiter Lagrangian Point One. , 2021, 53, .		0
49	Composition and Dynamical Processes of Ions in Giant Magnetospheres: The Importance of In Situ Measurements for Advancing the Current Knowledge. , 2021, 53, .		0
50	Evidence of Electron Density Enhancements in the Post-Apoapsis Sector of Enceladus' Orbit. Journal of Geophysical Research: Space Physics, 2020, 125, .	2.4	0