

Re Johnson

List of Publications by Year in descending order

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85
papers

4,743
citations

57758

44
h-index

98798

67
g-index

85
all docs

85
docs citations

85
times ranked

1950
citing authors

#	ARTICLE	IF	CITATIONS
1	Erosion and molecule formation in condensed gas films by electronic energy loss of fast ions. Nuclear Instruments & Methods in Physics Research, 1982, 198, 1-8.	0.9	160
2	Sulfuric Acid Production on Europa: The Radiolysis of Sulfur in Water Ice. Icarus, 2002, 157, 456-463.	2.5	143
3	Ultraviolet photodesorption from water ice. Planetary and Space Science, 1995, 43, 1311-1315.	1.7	135
4	Mercury's sodium exosphere. Icarus, 2003, 164, 261-281.	2.5	131
5	Energy dependence of the erosion of H ₂ O ice films by H and He ions. Nuclear Instruments & Methods, 1980, 170, 321-325.	1.2	125
6	Electronic mechanisms for sputtering of condensed-gas solids by energetic ions. Nuclear Instruments & Methods in Physics Research, 1982, 198, 103-118.	0.9	125
7	Electronic sputtering of low temperature molecular solids. Nuclear Instruments & Methods in Physics Research B, 1984, 1, 307-314.	1.4	125
8	Distribution of hydrate on Europa: Further evidence for sulfuric acid hydrate. Icarus, 2005, 177, 461-471.	2.5	124
9	Ion and neutral sources and sinks within Saturn's inner magnetosphere: Cassini results. Planetary and Space Science, 2008, 56, 3-18.	1.7	119
10	Ion-induced molecular ejection from D ₂ O ice. Surface Science, 1984, 147, 227-240.	1.9	116
11	Magnetospheric ion bombardment profiles of satellites: Europa and Dione. Icarus, 1989, 78, 1-13.	2.5	111
12	Planetary applications of ion induced erosion of condensed-gas frosts. Nuclear Instruments & Methods in Physics Research, 1982, 198, 147-157.	0.9	110
13	Magnetospheric ion sputtering and water ice grain size at Europa. Planetary and Space Science, 2013, 77, 64-73.	1.7	109
14	Surface-bounded atmosphere of Europa. Icarus, 2005, 173, 480-498.	2.5	107
15	Production, ionization and redistribution of O ₂ in Saturn's ring atmosphere. Icarus, 2006, 180, 393-402.	2.5	102
16	Cassini observations of Saturn's inner plasmasphere: Saturn orbit insertion results. Planetary and Space Science, 2006, 54, 1197-1210.	1.7	95
17	Magnetosphere, exosphere, and surface of mercury. Icarus, 1987, 71, 430-440.	2.5	91
18	Collisional spreading of Enceladus's neutral cloud. Icarus, 2010, 209, 696-703.	2.5	89

#	ARTICLE	IF	CITATIONS
19	Sputtering processes: Erosion and chemical change. <i>Advances in Space Research</i> , 1984, 4, 41-51.	2.6	84
20	Sputtering of the Martian atmosphere by solar wind pick-up ions. <i>Planetary and Space Science</i> , 2001, 49, 645-656.	1.7	83
21	The neutral cloud and heavy ion inner torus at Saturn. <i>Icarus</i> , 1989, 77, 311-329.	2.5	82
22	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
23	Sputtering of ices: a review. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1986, 13, 295-303.	1.4	77
24	Mechanisms for the desorption of large organic molecules. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1987, 78, 357-392.	1.8	76
25	Primordial comet mantle: Irradiation production of a stable organic crust. <i>Icarus</i> , 1991, 91, 101-104.	2.5	73
26	Electronic relaxation in rare-gas solids: Ejection of atoms by fast charged particles. <i>Nuclear Instruments & Methods in Physics Research</i> , 1983, 206, 289-297.	0.9	68
27	Mercury exosphere I. Global circulation model of its sodium component. <i>Icarus</i> , 2010, 209, 280-300.	2.5	68
28	The effect of magnetospheric ion bombardment on the reflectance of Europa's surface. <i>Icarus</i> , 1992, 100, 534-540.	2.5	67
29	Thermal- and plasma-induced molecular redistribution on the icy satellites. <i>Icarus</i> , 1982, 51, 528-548.	2.5	65
30	Ejection of nitrogen from Titan's atmosphere by magnetospheric ions and pick-up ions. <i>Icarus</i> , 2005, 175, 263-267.	2.5	63
31	Heavy ion formation in Titan's ionosphere: Magnetospheric introduction of free oxygen and a source of Titan's aerosols?. <i>Planetary and Space Science</i> , 2009, 57, 1547-1557.	1.7	62
32	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
33	Satellite sputtering in Saturn's magnetosphere. <i>Planetary and Space Science</i> , 2001, 49, 319-326.	1.7	55
34	Europa's Sodium Atmosphere: An Ocean Source?. <i>Icarus</i> , 2002, 159, 132-144.	2.5	53
35	The spatial morphology of Europa's near-surface O ₂ atmosphere. <i>Icarus</i> , 2007, 191, 755-764.	2.5	53
36	Polar "Caps" on Ganymede and Io Revisited. <i>Icarus</i> , 1997, 128, 469-471.	2.5	51

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37	Negative ions in the Enceladus plume. <i>Icarus</i> , 2010, 206, 618-622.	2.5	51
38	Analysis of Voyager images of Europa: Plasma bombardment. <i>Icarus</i> , 1988, 75, 423-436.	2.5	49
39	Ejection of atoms from rare-gas solids by low energy cascades. <i>Surface Science</i> , 1984, 148, 388-400.	1.9	47
40	Magnetospheric and Plasma Science with Cassini-Huygens. <i>Space Science Reviews</i> , 2002, 104, 253-346.	8.1	47
41	Enceladus: The likely dominant nitrogen source in Saturn's magnetosphere. <i>Icarus</i> , 2007, 188, 356-366.	2.5	47
42	On the orbital variability of Ganymede's atmosphere. <i>Icarus</i> , 2017, 293, 185-198.	2.5	47
43	Sputtering of solid SO ₂ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 1984, 1, 321-326.	1.4	46
44	Sputtering of ices by high energy particle impact. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1986, 14, 392-402.	1.4	46
45	Micrometeorite erosion of the main rings as a source of plasma in the inner Saturnian plasma torus. <i>Icarus</i> , 1991, 93, 45-52.	2.5	45
46	Sputtering of insulators due to electronic excitation, by fast ions and electrons. <i>Nuclear Instruments & Methods in Physics Research</i> , 1983, 209-210, 469-476.	0.9	43
47	Models for matrix-assisted desorption by a laser-pulse. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994, 139, 25-38.	1.8	43
48	The structure and time variability of the ring atmosphere and ionosphere. <i>Icarus</i> , 2010, 206, 382-389.	2.5	43
49	Saturn's magnetospheric interaction with Titan as defined by Cassini encounters T9 and T18: New results. <i>Planetary and Space Science</i> , 2010, 58, 327-350.	1.7	41
50	Ion-induced chemistry in condensed gas solids. <i>Nuclear Instruments & Methods in Physics Research</i> , 1983, 218, 707-711.	0.9	40
51	Sputtering of molecular gas solids by keV ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1986, 13, 360-364.	1.4	39
52	Application of laboratory data to the sputtering of a planetary regolith. <i>Icarus</i> , 1989, 78, 206-210.	2.5	39
53	Near-surface oxygen atmosphere at Europa. <i>Advances in Space Research</i> , 2001, 27, 1881-1888.	2.6	39
54	Polar frost formation on Ganymede. <i>Icarus</i> , 1985, 62, 344-347.	2.5	34

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55	Origins of Europa Na cloud and torus. <i>Icarus</i> , 2005, 178, 367-385.	2.5	34
56	Delayed emission of hydrogen from ion bombardment of solid methane. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987, 19-20, 899-902.	1.4	33
57	Energetic charged particle weathering of Saturn's inner satellites. <i>Planetary and Space Science</i> , 2012, 61, 60-65.	1.7	31
58	A model of the ionosphere of Saturn's rings and its implications. <i>Icarus</i> , 2006, 181, 465-474.	2.5	30
59	Mercury's exosphere origins and relations to its magnetosphere and surface. <i>Planetary and Space Science</i> , 2007, 55, 1069-1092.	1.7	30
60	Sputtering of sulfur by kiloelectronvolt ions: Application to the magnetospheric plasma interaction with Io. <i>Icarus</i> , 1987, 70, 111-123.	2.5	28
61	Solar energetic particle event at Mercury. <i>Planetary and Space Science</i> , 2003, 51, 339-352.	1.7	28
62	Trace constituents of Europa's atmosphere. <i>Icarus</i> , 2009, 201, 182-190.	2.5	26
63	Ices on Mercury: Chemistry of volatiles in permanently cold areas of Mercury's north polar region. <i>Icarus</i> , 2017, 281, 19-31.	2.5	26
64	An electronic mechanism for molecular desorption. <i>International Journal of Mass Spectrometry and Ion Physics</i> , 1983, 53, 337-339.	1.3	25
65	Collisional dissociation cross sections for O+O ₂ , CO and N ₂ , O ₂ +O ₂ , N+N ₂ , and N ₂ +N ₂ . <i>Planetary and Space Science</i> , 2002, 50, 123-128.	1.7	24
66	The lens feature on the inner saturnian satellites. <i>Icarus</i> , 2014, 234, 155-161.	2.5	24
67	Low energy collisions between ground-state oxygen atoms. <i>Planetary and Space Science</i> , 2001, 49, 533-537.	1.7	23
68	Astrophysical implications of ice sputtering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1986, 14, 373-377.	1.4	22
69	Sputtering of biomolecules by fast heavy ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1986, 14, 429-435.	1.4	22
70	Sputtering of rare gas solids by keV ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1986, 13, 304-308.	1.4	20
71	Molecular ejection from low temperature sulfur by keV ions. <i>Surface Science</i> , 1988, 195, 594-618.	1.9	20
72	X-ray probes of magnetospheric interactions with Jupiter's auroral zones, the Galilean satellites, and the Io plasma torus. <i>Icarus</i> , 2005, 178, 417-428.	2.5	20

#	ARTICLE	IF	CITATIONS
73	Incident angle dependence of electronic desorption and sputtering by energetic ions. Surface Science, 1987, 179, 187-198.	1.9	18
74	Seasonal and radial trends in Saturn's thermal plasma between the main rings and Enceladus. Icarus, 2014, 242, 130-137.	2.5	18
75	Heliospheric cosmic ray irradiation of Kuiper Belt comets. Advances in Space Research, 1998, 21, 1611-1614.	2.6	16
76	Surface boundary layer atmospheres. Geophysical Monograph Series, 2002, , 203-219.	0.1	16
77	Modeling the seasonal variability of the plasma environment in Saturn's magnetosphere between main rings and Mimas. Planetary and Space Science, 2013, 77, 126-135.	1.7	16
78	A model of interaction of Phobos's surface with the martian environment. Icarus, 2011, 212, 643-648.	2.5	14
79	Ion bombardment of interplanetary dust. Icarus, 1986, 66, 619-624.	2.5	13
80	The atomic hydrogen cloud in the saturnian system. Planetary and Space Science, 2013, 85, 164-174.	1.7	13
81	Absolute differential yields of condensed rare gases sputtered by keV ions. Surface Science, 1988, 203, 227-244.	1.9	12
82	Sputtering and detection of large organic molecules from Europa. Icarus, 2018, 309, 338-344.	2.5	8
83	Mechanisms for the desorption of large organic molecules. Part 2. International Journal of Mass Spectrometry and Ion Processes, 1993, 126, 17-24.	1.8	5
84	The Physics and Chemistry of Sputtering by Energetic Plasma Ions. Astrophysics and Space Science, 2001, 277, 259-269.	1.4	5
85	Irradiation Effects on Comets and Cometary Debris. International Astronomical Union Colloquium, 1989, 116, 243-275.	0.1	2