

# Re Johnson

## List of Publications by Year in descending order

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85  
papers

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85  
docs citations

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times ranked

1950  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sputtering and detection of large organic molecules from Europa. <i>Icarus</i> , 2018, 309, 338-344.	2.5	8
2	On the orbital variability of Ganymede's atmosphere. <i>Icarus</i> , 2017, 293, 185-198.	2.5	47
3	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
4	Seasonal and radial trends in Saturn's thermal plasma between the main rings and Enceladus. <i>Icarus</i> , 2014, 242, 130-137.	2.5	18
5	The lens feature on the inner saturnian satellites. <i>Icarus</i> , 2014, 234, 155-161.	2.5	24
6	Modeling the seasonal variability of the plasma environment in Saturn's magnetosphere between main rings and Mimas. <i>Planetary and Space Science</i> , 2013, 77, 126-135.	1.7	16
7	The atomic hydrogen cloud in the saturnian system. <i>Planetary and Space Science</i> , 2013, 85, 164-174.	1.7	13
8	Magnetospheric ion sputtering and water ice grain size at Europa. <i>Planetary and Space Science</i> , 2013, 77, 64-73.	1.7	109
9	Energetic charged particle weathering of Saturn's inner satellites. <i>Planetary and Space Science</i> , 2012, 61, 60-65.	1.7	31
10	A model of interaction of Phobos's surface with the martian environment. <i>Icarus</i> , 2011, 212, 643-648.	2.5	14
11	Negative ions in the Enceladus plume. <i>Icarus</i> , 2010, 206, 618-622.	2.5	51
12	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
13	The structure and time variability of the ring atmosphere and ionosphere. <i>Icarus</i> , 2010, 206, 382-389.	2.5	43
14	Collisional spreading of Enceladus's neutral cloud. <i>Icarus</i> , 2010, 209, 696-703.	2.5	89
15	Mercury exosphere I. Global circulation model of its sodium component. <i>Icarus</i> , 2010, 209, 280-300.	2.5	68
16	Trace constituents of Europa's atmosphere. <i>Icarus</i> , 2009, 201, 182-190.	2.5	26
17	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
18	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

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19	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
20	Enceladus: The likely dominant nitrogen source in Saturn's magnetosphere. <i>Icarus</i> , 2007, 188, 356-366.	2.5	47
21	The spatial morphology of Europa's near-surface O <sub>2</sub> atmosphere. <i>Icarus</i> , 2007, 191, 755-764.	2.5	53
22	Mercury's exosphere origins and relations to its magnetosphere and surface. <i>Planetary and Space Science</i> , 2007, 55, 1069-1092.	1.7	30
23	Production, ionization and redistribution of O <sub>2</sub> in Saturn's ring atmosphere. <i>Icarus</i> , 2006, 180, 393-402.	2.5	102
24	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
25	Cassini observations of Saturn's inner plasmasphere: Saturn orbit insertion results. <i>Planetary and Space Science</i> , 2006, 54, 1197-1210.	1.7	95
26	A model of the ionosphere of Saturn's rings and its implications. <i>Icarus</i> , 2006, 181, 465-474.	2.5	30
27	Surface-bounded atmosphere of Europa. <i>Icarus</i> , 2005, 173, 480-498.	2.5	107
28	Ejection of nitrogen from Titan's atmosphere by magnetospheric ions and pick-up ions. <i>Icarus</i> , 2005, 175, 263-267.	2.5	63
29	Distribution of hydrate on Europa: Further evidence for sulfuric acid hydrate. <i>Icarus</i> , 2005, 177, 461-471.	2.5	124
30	Origins of Europa Na cloud and torus. <i>Icarus</i> , 2005, 178, 367-385.	2.5	34
31	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
32	Mercury's sodium exosphere. <i>Icarus</i> , 2003, 164, 261-281.	2.5	131
33	Solar energetic particle event at Mercury. <i>Planetary and Space Science</i> , 2003, 51, 339-352.	1.7	28
34	Surface boundary layer atmospheres. <i>Geophysical Monograph Series</i> , 2002, , 203-219.	0.1	16
35	Sulfuric Acid Production on Europa: The Radiolysis of Sulfur in Water Ice. <i>Icarus</i> , 2002, 157, 456-463.	2.5	143
36	Europa's Sodium Atmosphere: An Ocean Source?. <i>Icarus</i> , 2002, 159, 132-144.	2.5	53

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37	Collisional dissociation cross sections for O+O <sub>2</sub> , CO and N <sub>2</sub> , O <sub>2</sub> +O <sub>2</sub> , N+N <sub>2</sub> , and N <sub>2</sub> +N <sub>2</sub> . Planetary and Space Science, 2002, 50, 123-128.	1.7	24
38	Magnetospheric and Plasma Science with Cassini-Huygens. Space Science Reviews, 2002, 104, 253-346.	8.1	47
39	Near-surface oxygen atmosphere at Europa. Advances in Space Research, 2001, 27, 1881-1888.	2.6	39
40	Satellite sputtering in Saturn's magnetosphere. Planetary and Space Science, 2001, 49, 319-326.	1.7	55
41	Low energy collisions between ground-state oxygen atoms. Planetary and Space Science, 2001, 49, 533-537.	1.7	23
42	Sputtering of the Martian atmosphere by solar wind pick-up ions. Planetary and Space Science, 2001, 49, 645-656.	1.7	83
43	The Physics and Chemistry of Sputtering by Energetic Plasma Ions. Astrophysics and Space Science, 2001, 277, 259-269.	1.4	5
44	Heliospheric cosmic ray irradiation of Kuiper Belt comets. Advances in Space Research, 1998, 21, 1611-1614.	2.6	16
45	Polar "Caps" on Ganymede and Io Revisited. Icarus, 1997, 128, 469-471.	2.5	51
46	Ultraviolet photodesorption from water ice. Planetary and Space Science, 1995, 43, 1311-1315.	1.7	135
47	Models for matrix-assisted desorption by a laser-pulse. International Journal of Mass Spectrometry and Ion Processes, 1994, 139, 25-38.	1.8	43
48	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
49	The effect of magnetospheric ion bombardment on the reflectance of Europa's surface. Icarus, 1992, 100, 534-540.	2.5	67
50	Primordial comet mantle: Irradiation production of a stable organic crust. Icarus, 1991, 91, 101-104.	2.5	73
51	Micrometeorite erosion of the main rings as a source of plasma in the inner Saturnian plasma torus. Icarus, 1991, 93, 45-52.	2.5	45
52	Magnetospheric ion bombardment profiles of satellites: Europa and Dione. Icarus, 1989, 78, 1-13.	2.5	111
53	Application of laboratory data to the sputtering of a planetary regolith. Icarus, 1989, 78, 206-210.	2.5	39
54	The neutral cloud and heavy ion inner torus at Saturn. Icarus, 1989, 77, 311-329.	2.5	82

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55	Irradiation Effects on Comets and Cometary Debris. International Astronomical Union Colloquium, 1989, 116, 243-275.	0.1	2
56	Analysis of Voyager images of Europa: Plasma bombardment. Icarus, 1988, 75, 423-436.	2.5	49
57	Absolute differential yields of condensed rare gases sputtered by keV ions. Surface Science, 1988, 203, 227-244.	1.9	12
58	Molecular ejection from low temperature sulfur by keV ions. Surface Science, 1988, 195, 594-618.	1.9	20
59	Incident angle dependence of electronic desorption and sputtering by energetic ions. Surface Science, 1987, 179, 187-198.	1.9	18
60	Magnetosphere, exosphere, and surface of mercury. Icarus, 1987, 71, 430-440.	2.5	91
61	Sputtering of sulfur by kiloelectronvolt ions: Application to the magnetospheric plasma interaction with Io. Icarus, 1987, 70, 111-123.	2.5	28
62	Mechanisms for the desorption of large organic molecules. International Journal of Mass Spectrometry and Ion Processes, 1987, 78, 357-392.	1.8	76
63	Delayed emission of hydrogen from ion bombardment of solid methane. Nuclear Instruments & Methods in Physics Research B, 1987, 19-20, 899-902.	1.4	33
64	Ion bombardment of interplanetary dust. Icarus, 1986, 66, 619-624.	2.5	13
65	Astrophysical implications of ice sputtering. Nuclear Instruments & Methods in Physics Research B, 1986, 14, 373-377.	1.4	22
66	Sputtering of ices by high energy particle impact. Nuclear Instruments & Methods in Physics Research B, 1986, 14, 392-402.	1.4	46
67	Sputtering of biomolecules by fast heavy ions. Nuclear Instruments & Methods in Physics Research B, 1986, 14, 429-435.	1.4	22
68	Sputtering of ices: a review. Nuclear Instruments & Methods in Physics Research B, 1986, 13, 295-303.	1.4	77
69	Sputtering of rare gas solids by keV ions. Nuclear Instruments & Methods in Physics Research B, 1986, 13, 304-308.	1.4	20
70	Sputtering of molecular gas solids by keV ions. Nuclear Instruments & Methods in Physics Research B, 1986, 13, 360-364.	1.4	39
71	Polar frost formation on Ganymede. Icarus, 1985, 62, 344-347.	2.5	34
72	Sputtering processes: Erosion and chemical change. Advances in Space Research, 1984, 4, 41-51.	2.6	84

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73	Electronic sputtering of low temperature molecular solids. Nuclear Instruments & Methods in Physics Research B, 1984, 1, 307-314.	1.4	125
74	Sputtering of solid SO <sub>2</sub> . Nuclear Instruments & Methods in Physics Research B, 1984, 1, 321-326.	1.4	46
75	Ion-induced molecular ejection from D <sub>2</sub> O ice. Surface Science, 1984, 147, 227-240.	1.9	116
76	Ejection of atoms from rare-gas solids by low energy cascades. Surface Science, 1984, 148, 388-400.	1.9	47
77	Sputtering of insulators due to electronic excitation, by fast ions and electrons. Nuclear Instruments & Methods in Physics Research, 1983, 209-210, 469-476.	0.9	43
78	Ion-induced chemistry in condensed gas solids. Nuclear Instruments & Methods in Physics Research, 1983, 218, 707-711.	0.9	40
79	Electronic relaxation in rare-gas solids: Ejection of atoms by fast charged particles. Nuclear Instruments & Methods in Physics Research, 1983, 206, 289-297.	0.9	68
80	An electronic mechanism for molecular desorption. International Journal of Mass Spectrometry and Ion Physics, 1983, 53, 337-339.	1.3	25
81	Electronic mechanisms for sputtering of condensed-gas solids by energetic ions. Nuclear Instruments & Methods in Physics Research, 1982, 198, 103-118.	0.9	125
82	Thermal- and plasma-induced molecular redistribution on the icy satellites. Icarus, 1982, 51, 528-548.	2.5	65
83	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
84	Planetary applications of ion induced erosion of condensed-gas frosts. Nuclear Instruments & Methods in Physics Research, 1982, 198, 147-157.	0.9	110
85	Energy dependence of the erosion of H <sub>2</sub> O ice films by H and He ions. Nuclear Instruments & Methods, 1980, 170, 321-325.	1.2	125