Ann Persoon

List of Publications by Year
in descending order

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61 papers	2,753 citations	201674 27 h-index	175258 52 g-index
62 all docs	62 docs citations	62 times ranked	1242 citing authors

#	Article	IF	Citations
1	Multiâ€instrument analysis of electron populations in Saturn's magnetosphere. Journal of Geophysical Research, 2008, 113, .	3.3	342
2	Radio and Plasma Wave Observations at Saturn from Cassini's Approach and First Orbit. Science, 2005, 307, 1255-1259.	12.6	236
3	The Variable Rotation Period of the Inner Region of Saturn's Plasma Disk. Science, 2007, 316, 442-445.	12.6	223
4	Discovery of a northâ€south asymmetry in Saturn's radio rotation period. Geophysical Research Letters, 2009, 36, .	4.0	143
5	Ion and neutral sources and sinks within Saturn's inner magnetosphere: Cassini results. Planetary and Space Science, 2008, 56, 3-18.	1.7	119
6	Magnetically controlled structures in the ionosphere of Mars. Journal of Geophysical Research, 2006, 111, .	3.3	90
7	Dusty plasma in the vicinity of Enceladus. Journal of Geophysical Research, 2011, 116, .	3.3	89
8	A diffusive equilibrium model for the plasma density in Saturn's magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	85
9	The electron density of Saturn's magnetosphere. Annales Geophysicae, 2009, 27, 2971-2991.	1.6	73
10	Chemical interactions between Saturnâ€™s atmosphere and its rings. Science, 2018, 362, .	12.6	73
11	Equatorial electron density measurements in Saturn's inner magnetosphere. Geophysical Research Letters, 2005, 32, .	4.0	69
12	The inner magnetosphere of Saturn: Cassini RPWS cold plasma results from the first encounter. Geophysical Research Letters, 2005, 32, .	4.0	67
13	The reversal of the rotational modulation rates of the north and south components of Saturn kilometric radiation near equinox. Geophysical Research Letters, 2010, 37, .	4.0	65
14	A simple scale height model of the electron density in Saturn's plasma disk. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	62
15	A northâ€south difference in the rotation rate of auroral hiss at Saturn: Comparison to Saturn's kilometric radio emission. Geophysical Research Letters, 2009, 36, .	4.0	61
16	Analysis of plasma waves observed within local plasma injections seen in Saturn's magnetosphere. Journal of Geophysical Research, 2008, 113, .	3.3	51
17	Magnetic signatures of plasmaâ€depleted flux tubes in the Saturnian inner magnetosphere. Geophysical Research Letters, 2007, 34, .	4.0	49
18	Survey of thermal plasma ions in Saturn's magnetosphere utilizing a forward model. Journal of Geophysical Research: Space Physics, 2017, 122, 7256-7278.	2.4	48

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19	Observation of similar radio signatures at Saturn and Jupiter: Implications for the magnetospheric dynamics. Geophysical Research Letters, 2007, 34, .	4.0	41
20	The plasma density distribution in the inner region of Saturn's magnetosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 2970-2974.	2.4	41
21	In situ measurements of Saturnâ€™s ionosphere show that it is dynamic and interacts with the rings. Science, 2018, 359, 66-68.	12.6	40
22	Saturn's ring current: Local time dependence and temporal variability. Journal of Geophysical Research, 2011, 116, .	3.3	39
23	A plasmapauseâ€like density boundary at high latitudes in Saturn's magnetosphere. Geophysical Research Letters, 2010, 37, .	4.0	38
24	Dust grains fall from Saturnâ€™s D-ring into its equatorial upper atmosphere. Science, 2018, 362, .	12.6	37
25	Plasma densities in the vicinity of Callisto from Galileo plasma wave observations. Geophysical Research Letters, 2000, 27, 1867-1870.	4.0	33
26	First whistler observed in the magnetosphere of Saturn. Geophysical Research Letters, 2006, 33, .	4.0	32
27	Multiâ€instrument analysis of plasma parameters in Saturn's equatorial, inner magnetosphere using corrections for corrections for spacecraft potential and penetrating background radiation. Journal of Geophysical Research: Space Physics, 2014, 119, 3683-3707.	2.4	32
28	Nature of the ring current in Saturn's dayside magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	27
29	Saturn's Dusty Ionosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 1679-1697.	2.4	27
30	Electron Density Distributions in Saturn's Ionosphere. Geophysical Research Letters, 2019, 46, 3061-3068.	4.0	27
31	Identification of electron fieldâ€aligned current systems in Saturn's magnetosphere. Journal of Geophysical Research, 2012, 117, .	3.3	26
32	Models of Saturn's Equatorial Ionosphere Based on In Situ Data From Cassini's Grand Finale. Geophysical Research Letters, 2018, 45, 9398-9407.	4.0	26
33	Auroral hiss, electron beams and standing AlfvÃ©n wave currents near Saturn's moon Enceladus. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	23
34	An ionized layer in the upper atmosphere of Mars caused by dust impacts from comet Siding Spring. Geophysical Research Letters, 2015, 42, 4745-4751.	4.0	23
35	The low-frequency source of Saturnâ€™s kilometric radiation. Science, 2018, 362, .	12.6	22
36	The Ion Composition of Saturn's Equatorial Ionosphere as Observed by Cassini. Geophysical Research Letters, 2019, 46, 6315-6321.	4.0	22

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37	An unusual rotationally modulated attenuation band in the Jovian hectometric radio emission spectrum. Geophysical Research Letters, 1998, 25, 1841-1844.	4.0	20
38	Properties of the thermal ion plasma near Rhea as measured by the Cassini plasma spectrometer. Journal of Geophysical Research, 2010, 115, .	3.3	20
39	Saturn's Ionosphere: Electron Density Altitude Profiles and Dâ€Ring Interaction From The Cassini Grand Finale. Geophysical Research Letters, 2019, 46, 9362-9369.	4.0	20
40	Evidence for a seasonally dependent ring plasma in the region between Saturn's A Ring and Enceladus' orbit. Journal of Geophysical Research: Space Physics, 2015, 120, 6276-6285.	2.4	17
41	Mass unloading along the inner edge of the Enceladus plasma torus. Geophysical Research Letters, 2008, 35, .	4.0	16
42	The rotation of the plasmapause-like boundary at high latitudes in Saturn's magnetosphere and its relation to the eccentric rotation of the northern and southern auroral ovals. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	16
43	Dust Observations by the Radio and Plasma Wave Science Instrument During Cassini's Grand Finale. Geophysical Research Letters, 2018, 45, 10,101.	4.0	16
44	Enceladus Auroral Hiss Emissions During Cassini's Grand Finale. Geophysical Research Letters, 2018, 45, 7347-7353.	4.0	16
45	Survey of Saturn Zâ€mode emission. Journal of Geophysical Research: Space Physics, 2015, 120, 6176-6187.	2.4	12
46	Intense Harmonic Emissions Observed in Saturn's Ionosphere. Geophysical Research Letters, 2017, 44, 12,049.	4.0	12
47	Cassini magnetometer observations over the Enceladus poles. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	10
48	Cassini RPWS Dust Observation Near the Janus/Epimetheus Orbit. Journal of Geophysical Research: Space Physics, 2018, 123, 4952-4960.	2.4	9
49	Distribution in Saturn's Inner Magnetosphere From 2.4 to 10 R_S: A Diffusive Equilibrium Model. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027545.	2.4	9
50	Density Structures, Dynamics, and Seasonal and Solar Cycle Modulations of Saturn's Inner Plasma Disk. Journal of Geophysical Research: Space Physics, 2017, 122, 12,258.	2.4	8
51	The Dusty Plasma Disk Around the Janus/Epimetheus Ring. Journal of Geophysical Research: Space Physics, 2018, 123, 4668-4678.	2.4	8
52	Analysis of Intense Zâ€Mode Emission Observed During the Cassini Proximal Orbits. Geophysical Research Letters, 2018, 45, 6766-6772.	4.0	8
53	Auroral Hiss Emissions During Cassini's Grand Finale: Diverse Electrodynamic Interactions Between Saturn and Its Rings. Geophysical Research Letters, 2018, 45, 6782-6789.	4.0	8
54	Extended Survey of Saturn Zâ€Mode Wave Intensity Through Cassini's Final Orbits. Geophysical Research Letters, 2018, 45, 7330-7336.	4.0	7

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55	Saturn's Plasma Density Depletions Along Magnetic Field Lines Connected to the Main Rings. Geophysical Research Letters, 2018, 45, 8104-8110.	4.0	6
56	Drifting field-aligned density structures in the night-side polar cap. Geophysical Research Letters, 2005, 32, .	4.0	5
57	NANOGRAIN DENSITY OUTSIDE SATURNâ€™S A RING. Astrophysical Journal Letters, 2017, 834, L6.	8.3	3
58	Plasma Transport in Saturn's Lowâ€Łatitude Ionosphere: Cassini Data. Journal of Geophysical Research: Space Physics, 2019, 124, 4881-4888.	2.4	3
59	Planetary Period Oscillations of Saturnâ€™s Dayside Equatorial Ionospheric Electron Density Observed on Cassiniâ€™s Proximal Passes. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029332.	2.4	3
60	The Cassini RPWS/LP Observations of Dusty Plasma in the Kronian System. Proceedings of the International Astronomical Union, 2018, 14, 415-416.	0.0	0
61	Evidence of Electron Density Enhancements in the Postâ€Apoapsis Sector of Enceladus' Orbit. Journal of Geophysical Research: Space Physics, 2020, 125, .	2.4	0