## Nicholas A Achilleos

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Asteroseismology of the DOV star PG 1159 - 035 with the Whole Earth Telescope. Astrophysical Journal, 1991, 378, 326.	4.5	223
2	Cassini Magnetometer Observations During Saturn Orbit Insertion. Science, 2005, 307, 1266-1270.	12.6	211
3	Warping of Saturn's magnetospheric and magnetotail current sheets. Journal of Geophysical Research, 2008, 113, .	3.3	148
4	Titan's Magnetic Field Signature During the First Cassini Encounter. Science, 2005, 308, 992-995.	12.6	133
5	Modeling the size and shape of Saturn's magnetopause with variable dynamic pressure. Journal of Geophysical Research, 2006, 111, .	3.3	133
6	The Magnetic Memory of Titan's Ionized Atmosphere. Science, 2008, 321, 1475-1478.	12.6	119
7	Interplanetary magnetic field at â^1⁄49 AU during the declining phase of the solar cycle and its implications for Saturn's magnetospheric dynamics. Journal of Geophysical Research, 2004, 109, .	3.3	114
8	JIM: A time-dependent, three-dimensional model of Jupiter's thermosphere and ionosphere. Journal of Geophysical Research, 1998, 103, 20089-20112.	3.3	107
9	The role of H3+in planetary atmospheres. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2000, 358, 2485-2502.	3.4	106
10	Cassini observations of a Kelvinâ€Helmholtz vortex in Saturn's outer magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	100
11	EChO. Experimental Astronomy, 2012, 34, 311-353.	3.7	98
12	Understanding the Cool DA White Dwarf Pulsator, G29â^'38. Astrophysical Journal, 1998, 495, 424-434.	4.5	98
13	Strong rapid dipolarizations in Saturn's magnetotail: In situ evidence of reconnection. Geophysical Research Letters, 2007, 34, .	4.0	93
14	A Baseline Spectroscopic Study of the Infrared Auroras of Jupiter. Icarus, 1997, 127, 379-393.	2.5	92
15	Saturn's magnetodisc current sheet. Journal of Geophysical Research, 2008, 113, .	3.3	89
16	Largeâ€scale dynamics of Saturn's magnetopause: Observations by Cassini. Journal of Geophysical Research, 2008, 113, .	3.3	86
17	Titan's near magnetotail from magnetic field and electron plasma observations and modeling: Cassini flybys TA, TB, and T3. Journal of Geophysical Research, 2006, 111, .	3.3	82
18	TandEM: Titan and Enceladus mission. Experimental Astronomy, 2009, 23, 893-946.	3.7	77

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19	A model of force balance in Saturn's magnetodisc. Monthly Notices of the Royal Astronomical Society, 2010, 401, 2349-2371.	4.4	73
20	Mid-to-Low Latitude H+3Emission from Jupiter. Icarus, 1997, 130, 57-67.	2.5	72
21	Saturn's dynamic magnetotail: A comprehensive magnetic field and plasma survey of plasmoids and traveling compression regions and their role in global magnetospheric dynamics. Journal of Geophysical Research: Space Physics, 2014, 119, 5465-5494.	2.4	69
22	Collision of comet Shoemaker-Levy 9 with Jupiter observed by the NASA infrared telescope facility. Science, 1995, 267, 1277-1282.	12.6	68
23	Surface waves on Saturn's dawn flank magnetopause driven by the Kelvin–Helmholtz instability. Planetary and Space Science, 2009, 57, 1769-1778.	1.7	68
24	Supersonic winds in Jupiter's aurorae. Nature, 1999, 399, 121-124.	27.8	60
25	Global MHD simulations of Saturn's magnetosphere at the time of Cassini approach. Geophysical Research Letters, 2005, 32, .	4.0	57
26	Mass of Saturn's magnetodisc: Cassini observations. Geophysical Research Letters, 2007, 34, .	4.0	57
27	The variability of Titan's magnetic environment. Planetary and Space Science, 2009, 57, 1813-1820.	1.7	56
28	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	1.7	56
29	Auroral counterpart of magnetic field dipolarizations in Saturn's tail. Planetary and Space Science, 2013, 82-83, 34-42.	1.7	53
30	On the dynamics of the jovian ionosphere and thermosphere Icarus, 2005, 173, 200-211.	2.5	51
31	An empirical model of Saturn's bow shock: Cassini observations of shock location and shape. Journal of Geophysical Research, 2008, 113, .	3.3	51
32	Earthâ€based detection of Uranus' aurorae. Geophysical Research Letters, 2012, 39, .	4.0	51
33	Magnetism, X-rays and accretion rates in WD 1145+017 and other polluted white dwarf systems. Monthly Notices of the Royal Astronomical Society, 2018, 474, 947-960.	4.4	51
34	Orientation, location, and velocity of Saturn's bow shock: Initial results from the Cassini spacecraft. Journal of Geophysical Research, 2006, 111, .	3.3	50
35	A multiâ€instrument view of tail reconnection at Saturn. Journal of Geophysical Research, 2008, 113, .	3.3	48
36	Cassini observations of ion and electron beams at Saturn and their relationship to infrared auroral arcs. Journal of Geophysical Research, 2012, 117, .	3.3	47

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37	IONIZATION OF EXTRASOLAR GIANT PLANET ATMOSPHERES. Astrophysical Journal, 2010, 722, 178-187.	4.5	44
38	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. Experimental Astronomy, 2012, 33, 753-791.	3.7	44
39	Jovian-like aurorae on Saturn. Nature, 2008, 453, 1083-1085.	27.8	43
40	Complex structure within Saturn's infrared aurora. Nature, 2008, 456, 214-217.	27.8	42
41	Thermal electron periodicities at 20 <i>R</i> <sub><i>S</i></sub> in Saturn's magnetosphere. Geophysical Research Letters, 2008, 35, .	4.0	41
42	No sodium in the vapour plumes of Enceladus. Nature, 2009, 459, 1102-1104.	27.8	41
43	Saturn's auroral/polar H+3 infrared emission. Icarus, 2007, 189, 1-13.	2.5	40
44	Internally driven largeâ€scale changes in the size of Saturn's magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 7289-7306.	2.4	39
45	Surface waves on Saturn's magnetopause. Planetary and Space Science, 2012, 65, 109-121.	1.7	36
46	Electron heating at Saturn's bow shock. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	35
47	Response of the Jovian thermosphere to a transient â€~pulse' in solar wind pressure. Planetary and Space Science, 2014, 91, 27-44.	1.7	34
48	Neptune and Triton: Essential pieces of the Solar System puzzle. Planetary and Space Science, 2014, 104, 108-121.	1.7	34
49	A model of force balance in Jupiter's magnetodisc including hot plasma pressure anisotropy. Journal of Geophysical Research: Space Physics, 2015, 120, 10,185.	2.4	34
50	Interplanetary conditions and magnetospheric dynamics during the Cassini orbit insertion fly-through of Saturn's magnetosphere. Journal of Geophysical Research, 2005, 110, .	3.3	33
51	Influence of hot plasma pressure on the global structure of Saturn's magnetodisk. Geophysical Research Letters, 2010, 37, .	4.0	33
52	Analysis of a coronal mass ejection and corotating interaction region as they travel from the Sun passing Venus, Earth, Mars, and Saturn. Journal of Geophysical Research: Space Physics, 2015, 120, 1566-1588.	2.4	33
53	Effects of radial motion on interchange injections at Saturn. Icarus, 2016, 264, 342-351.	2.5	33
54	Local time variations in Jupiter's magnetosphereâ€ionosphere coupling system. Journal of Geophysical Research: Space Physics, 2014, 119, 4740-4751.	2.4	32

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55	1. Transport of Mass, Momentum and Energy in Planetary Magnetodisc Regions. Space Science Reviews, 2015, 187, 229-299.	8.1	32
56	Asteroseismology of RXJÂ2117+3412, the hottest pulsating PGÂ1159 star. Astronomy and Astrophysics, 2002, 381, 122-150.	5.1	32
57	Latitudinal Profiles of the Jovian IR Emissions of H+3 at 4 μm with the NASA Infrared Telescope Facility: Energy Inputs and Thermal Balance. Icarus, 2000, 147, 366-385.	2.5	31
58	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	3.7	31
59	Outer magnetospheric structure: Jupiter and Saturn compared. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	30
60	Saturn's auroral/polar H+3 infrared emission. Icarus, 2007, 191, 678-690.	2.5	29
61	Location of Saturn's northern infrared aurora determined from Cassini VIMS images. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	28
62	VESPA: A community-driven Virtual Observatory in Planetary Science. Planetary and Space Science, 2018, 150, 65-85.	1.7	28
63	Whole earth telescope observations of the white dwarf G29-38 - Phase variations of the 615 second period. Astrophysical Journal, 1990, 357, 630.	4.5	26
64	UKIRT Observations of the Impact and Consequences of Comet Shoemaker–Levy 9 on Jupiterâ~†. Icarus, 1997, 126, 107-125.	2.5	24
65	The aurorae of Uranus past equinox. Journal of Geophysical Research: Space Physics, 2017, 122, 3997-4008.	2.4	24
66	A dynamical model of Jupiter's auroral electrojet. New Journal of Physics, 2001, 3, 3-3.	2.9	23
67	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
68	Influence of upstream solar wind on thermospheric flows at Jupiter. Planetary and Space Science, 2012, 61, 15-31.	1.7	23
69	Polar confinement of Saturn's magnetosphere revealed by in situ Cassini observations. Journal of Geophysical Research: Space Physics, 2014, 119, 2858-2875.	2.4	21
70	Variability in Saturn's bow shock and magnetopause from Pioneer and Voyager: Probabilistic predictions and initial observations by Cassini. Geophysical Research Letters, 2005, 32, .	4.0	19
71	Lowâ€frequency waves in the foreshock of Saturn: First results from Cassini. Journal of Geophysical Research, 2007, 112, .	3.3	18
72	Asymmetries observed in Saturn's magnetopause geometry. Geophysical Research Letters, 2015, 42, 6890-6898.	4.0	18

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73	The effect of the impact of comet Shoemaker Levy-9 on Jupiter's aurorae. Geophysical Research Letters, 1995, 22, 1629-1632.	4.0	17
74	Cassini observations of Saturn's southern polar cusp. Journal of Geophysical Research: Space Physics, 2016, 121, 3006-3030.	2.4	17
75	Jupiter's Xâ€ray Emission During the 2007 Solar Minimum. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027219.	2.4	17
76	Saturn's quasiperiodic magnetohydrodynamic waves. Geophysical Research Letters, 2016, 43, 11,102.	4.0	16
77	Statistical ring current of Saturn. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	14
78	The effect of including fieldâ€aligned potentials in the coupling between Jupiter's thermosphere, ionosphere, and magnetosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 6987-7005.	2.4	14
79	Saturn's auroral/polar H <sub>3</sub> <sup>+</sup> infrared emission: The effect of solar wind compression. Journal of Geophysical Research, 2012, 117, .	3.3	13
80	Axial symmetry breaking of Saturn's thermosphere. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1460-1488.	4.4	13
81	Modeling the compressibility of Saturn's magnetosphere in response to internal and external influences. Journal of Geophysical Research: Space Physics, 2017, 122, 1572-1589.	2.4	13
82	Virtual Planetary Space Weather Services offered by the Europlanet H2O2O Research Infrastructure. Planetary and Space Science, 2018, 150, 50-59.	1.7	13
83	Electric field variability and classifications of Titan's magnetoplasma environment. Annales Geophysicae, 2011, 29, 1253-1258.	1.6	12
84	Global configuration of Saturn's magnetic field derived from observations. Geophysical Research Letters, 2010, 37, .	4.0	11
85	Structure of the interplanetary magnetic field during the interval spanning the first Cassini fly-through of Saturn's magnetosphere and its implications for Saturn's magnetospheric dynamics. Advances in Space Research, 2005, 36, 2120-2126.	2.6	10
86	Kronos: exploring the depths of Saturn with probes and remote sensing through an international mission. Experimental Astronomy, 2009, 23, 947-976.	3.7	10
87	A combined model of pressure variations in Titan's plasma environment. Geophysical Research Letters, 2014, 41, 8730-8735.	4.0	10
88	Response of the Jovian thermosphere to variations in solar EUV flux. Journal of Geophysical Research: Space Physics, 2014, 119, 3664-3682.	2.4	9
89	Magnetosphereâ€lonosphereâ€Thermosphere Coupling at Jupiter Using a Threeâ€Dimensional Atmospheric General Circulation Model. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA026792.	2.4	9
90	A test of the planet–star unipolar inductor for magnetic white dwarfs. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3743-3758.	4.4	9

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91	Magnetic signatures of Jupiter's bow shock during the Cassini flyby. Journal of Geophysical Research, 2004, 109, .	3.3	8
92	Dusk-brightening Event in Saturn's H[FORMULA][F][SUP]+[/SUP][INF]3[/INF][/F][/FORMULA] Aurora. Astrophysical Journal, 2008, 673, L203-L206.	4.5	8
93	Infrared spectroscopic studies of the jovian ionsophere and aurorae. Advances in Space Research, 2000, 26, 1477-1488.	2.6	7
94	Largeâ€scale solar wind flow around Saturn's nonaxisymmetric magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 9198-9206.	2.4	7
95	Thermospheric general circulation models for the giant planets: The Jupiter case. Geophysical Monograph Series, 2002, , 289-298.	0.1	6
96	Local Time Variation in the Largeâ€ <b>s</b> cale Structure of Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 7425-7441.	2.4	6
97	Tracking Counterpart Signatures in Saturn's Auroras and ENA Imagery During Large cale Plasma Injection Events. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027542.	2.4	6
98	The science of EChO. Proceedings of the International Astronomical Union, 2010, 6, 359-370.	0.0	5
99	The Periodic Flapping and Breathing of Saturn's Magnetodisk During Equinox. Journal of Geophysical Research: Space Physics, 2018, 123, 8292-8316.	2.4	5
100	An Initial Study Into the Longâ€Term Influence of Solar Wind Dynamic Pressure on Jupiter's Thermosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 9357-9369.	2.4	5
101	Mapping Saturn's Nightside Plasma Sheet Using Cassini's Proximal Orbits. Geophysical Research Letters, 2018, 45, 6798-6804.	4.0	4
102	Trapped Particle Motion in Magnetodisk Fields. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027827.	2.4	4
103	Constraining the Temporal Variability of Neutral Winds in Saturn's Lowâ€Latitude Ionosphere Using Magnetic Field Measurements. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006578.	3.6	4
104	Giant Planet Magnetodiscs and Aurorae—An Introduction. Space Science Reviews, 2015, 187, 1-3.	8.1	3
105	Magnetopause Compressibility at Saturn with Internal Drivers. Geophysical Research Letters, 2020, 47, e2019GL086438.	4.0	3
106	A Rotating Azimuthally Distributed Auroral Current System on Saturn Revealed by the Cassini Spacecraft. Astrophysical Journal Letters, 2021, 919, L25.	8.3	3
107	Bow Shock and Upstream Waves at Jupiter and Saturn: Cassini Magnetometer Observations. AIP Conference Proceedings, 2005, , .	0.4	2
108	The VOISE algorithm: a versatile tool for automatic segmentation of astronomical images. Monthly Notices of the Royal Astronomical Society, 2009, 398, 1254-1262.	4.4	2

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109	A Selfâ€Regulating Equilibrium Magnetopause Model With Applications to Saturn. Journal of Geophysical Research: Space Physics, 2019, 124, 6833-6849.	2.4	2
110	The Cushion Region and Dayside Magnetodisc Structure at Saturn. Geophysical Research Letters, 2021, 48, e2020GL091796.	4.0	2
111	A magnetodisc model service for planetary space weather studies. Journal of Space Weather and Space Climate, 2019, 9, A24.	3.3	1
112	Seasonal Dependence of the Magnetospheric Drag Torque on Saturn's Northern and Southern Polar Thermospheres and its Relation to the Periods of Planetary Period Oscillations. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028247.	2.4	1
113	Dawnâ€Đusk Asymmetry in Energetic (>20ÂkeV) Particles Adjacent to Saturn's Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028264.	2.4	1
114	Electron Bulk Heating at Saturn's Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028800.	2.4	1
115	Enceladus and Titan: emerging worlds of the Solar System. Experimental Astronomy, 0, , 1.	3.7	1
116	Transport of Mass, Momentum and Energy in Planetary Magnetodisc Regions. Space Sciences Series of ISSI, 2016, , 229-299.	0.0	0