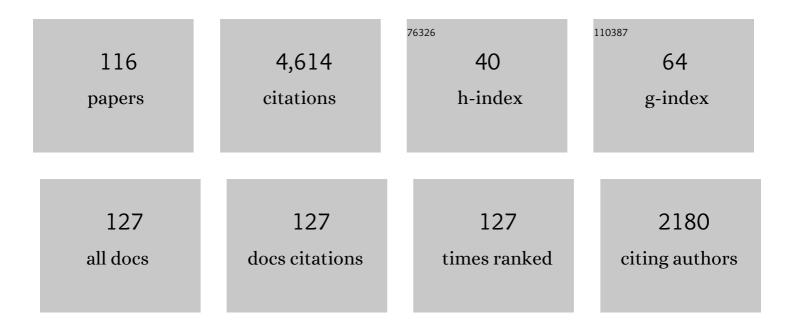
## Nicholas A Achilleos

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Dawnâ€Dusk Asymmetry in Energetic (>20ÂkeV) Particles Adjacent to Saturn's Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028264.	2.4	1
2	Constraining the Temporal Variability of Neutral Winds in Saturn's Low‣atitude Ionosphere Using Magnetic Field Measurements. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006578.	3.6	4
3	The Cushion Region and Dayside Magnetodisc Structure at Saturn. Geophysical Research Letters, 2021, 48, e2020GL091796.	4.0	2
4	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
5	Electron Bulk Heating at Saturn's Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028800.	2.4	1
6	A Rotating Azimuthally Distributed Auroral Current System on Saturn Revealed by the Cassini Spacecraft. Astrophysical Journal Letters, 2021, 919, L25.	8.3	3
7	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
8	Jupiter's Xâ€ray Emission During the 2007 Solar Minimum. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027219.	2.4	17
9	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
10	Trapped Particle Motion in Magnetodisk Fields. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027827.	2.4	4
11	Magnetopause Compressibility at Saturn with Internal Drivers. Geophysical Research Letters, 2020, 47, e2019GL086438.	4.0	3
12	Tracking Counterpart Signatures in Saturn's Auroras and ENA Imagery During Largeâ€Scale Plasma Injection Events. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027542.	2.4	6
13	A Selfâ€Regulating Equilibrium Magnetopause Model With Applications to Saturn. Journal of Geophysical Research: Space Physics, 2019, 124, 6833-6849.	2.4	2
14	Local Time Variation in the Large‣cale Structure of Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 7425-7441.	2.4	6
15	A magnetodisc model service for planetary space weather studies. Journal of Space Weather and Space Climate, 2019, 9, A24.	3.3	1
16	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
17	VESPA: A community-driven Virtual Observatory in Planetary Science. Planetary and Space Science, 2018, 150, 65-85.	1.7	28
18	Virtual Planetary Space Weather Services offered by the Europlanet H2020 Research Infrastructure. Planetary and Space Science, 2018, 150, 50-59.	1.7	13

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19	The Periodic Flapping and Breathing of Saturn's Magnetodisk During Equinox. Journal of Geophysical Research: Space Physics, 2018, 123, 8292-8316.	2.4	5
20	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
21	Mapping Saturn's Nightside Plasma Sheet Using Cassini's Proximal Orbits. Geophysical Research Letters, 2018, 45, 6798-6804.	4.0	4
22	The aurorae of Uranus past equinox. Journal of Geophysical Research: Space Physics, 2017, 122, 3997-4008.	2.4	24
23	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
24	Largeâ€scale solar wind flow around Saturn's nonaxisymmetric magnetosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 9198-9206.	2.4	7
25	Cassini observations of Saturn's southern polar cusp. Journal of Geophysical Research: Space Physics, 2016, 121, 3006-3030.	2.4	17
26	Saturn's quasiperiodic magnetohydrodynamic waves. Geophysical Research Letters, 2016, 43, 11,102.	4.0	16
27	Effects of radial motion on interchange injections at Saturn. Icarus, 2016, 264, 342-351.	2.5	33
28	Transport of Mass, Momentum and Energy in Planetary Magnetodisc Regions. Space Sciences Series of ISSI, 2016, , 229-299.	0.0	0
29	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
30	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
31	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	3.7	31
32	Asymmetries observed in Saturn's magnetopause geometry. Geophysical Research Letters, 2015, 42, 6890-6898.	4.0	18
33	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
34	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
35	1. Transport of Mass, Momentum and Energy in Planetary Magnetodisc Regions. Space Science Reviews, 2015, 187, 229-299.	8.1	32
36	Giant Planet Magnetodiscs and Aurorae—An Introduction. Space Science Reviews, 2015, 187, 1-3.	8.1	3

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37	Response of the Jovian thermosphere to variations in solar EUV flux. Journal of Geophysical Research: Space Physics, 2014, 119, 3664-3682.	2.4	9
38	Local time variations in Jupiter's magnetosphereâ€ionosphere coupling system. Journal of Geophysical Research: Space Physics, 2014, 119, 4740-4751.	2.4	32
39	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
40	Response of the Jovian thermosphere to a transient †pulse' in solar wind pressure. Planetary and Space Science, 2014, 91, 27-44.	1.7	34
41	Neptune and Triton: Essential pieces of the Solar System puzzle. Planetary and Space Science, 2014, 104, 108-121.	1.7	34
42	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
43	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
44	A combined model of pressure variations in Titan's plasma environment. Geophysical Research Letters, 2014, 41, 8730-8735.	4.0	10
45	Auroral counterpart of magnetic field dipolarizations in Saturn's tail. Planetary and Space Science, 2013, 82-83, 34-42.	1.7	53
46	EChO. Experimental Astronomy, 2012, 34, 311-353.	3.7	98
47	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
48	Statistical ring current of Saturn. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	14
49	Earthâ€based detection of Uranus' aurorae. Geophysical Research Letters, 2012, 39, .	4.0	51
50	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
51	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. Experimental Astronomy, 2012, 33, 753-791.	3.7	44
52	Influence of upstream solar wind on thermospheric flows at Jupiter. Planetary and Space Science, 2012, 61, 15-31.	1.7	23
53	Surface waves on Saturn's magnetopause. Planetary and Space Science, 2012, 65, 109-121.	1.7	36
54	Axial symmetry breaking of Saturn's thermosphere. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1460-1488.	4.4	13

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55	Location of Saturn's northern infrared aurora determined from Cassini VIMS images. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	28
56	Outer magnetospheric structure: Jupiter and Saturn compared. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	30
57	Electron heating at Saturn's bow shock. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	35
58	Electric field variability and classifications of Titan's magnetoplasma environment. Annales Geophysicae, 2011, 29, 1253-1258.	1.6	12
59	The science of EChO. Proceedings of the International Astronomical Union, 2010, 6, 359-370.	0.0	5
60	IONIZATION OF EXTRASOLAR GIANT PLANET ATMOSPHERES. Astrophysical Journal, 2010, 722, 178-187.	4.5	44
61	A model of force balance in Saturn's magnetodisc. Monthly Notices of the Royal Astronomical Society, 2010, 401, 2349-2371.	4.4	73
62	Global configuration of Saturn's magnetic field derived from observations. Geophysical Research Letters, 2010, 37, .	4.0	11
63	Influence of hot plasma pressure on the global structure of Saturn's magnetodisk. Geophysical Research Letters, 2010, 37, .	4.0	33
64	Cassini observations of a Kelvinâ€Helmholtz vortex in Saturn's outer magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	100
65	Kronos: exploring the depths of Saturn with probes and remote sensing through an international mission. Experimental Astronomy, 2009, 23, 947-976.	3.7	10
66	TandEM: Titan and Enceladus mission. Experimental Astronomy, 2009, 23, 893-946.	3.7	77
67	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
68	No sodium in the vapour plumes of Enceladus. Nature, 2009, 459, 1102-1104.	27.8	41
69	The variability of Titan's magnetic environment. Planetary and Space Science, 2009, 57, 1813-1820.	1.7	56
70	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
71	Jovian-like aurorae on Saturn. Nature, 2008, 453, 1083-1085.	27.8	43
72	Complex structure within Saturn's infrared aurora. Nature, 2008, 456, 214-217.	27.8	42

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73	Saturn's magnetodisc current sheet. Journal of Geophysical Research, 2008, 113, .	3.3	89
74	Warping of Saturn's magnetospheric and magnetotail current sheets. Journal of Geophysical Research, 2008, 113, .	3.3	148
75	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
76	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
77	Largeâ€scale dynamics of Saturn's magnetopause: Observations by Cassini. Journal of Geophysical Research, 2008, 113, .	3.3	86
78	A multiâ€instrument view of tail reconnection at Saturn. Journal of Geophysical Research, 2008, 113, .	3.3	48
79	The Magnetic Memory of Titan's Ionized Atmosphere. Science, 2008, 321, 1475-1478.	12.6	119
80	An empirical model of Saturn's bow shock: Cassini observations of shock location and shape. Journal of Geophysical Research, 2008, 113, .	3.3	51
81	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
82	Mass of Saturn's magnetodisc: Cassini observations. Geophysical Research Letters, 2007, 34, .	4.0	57
83	Lowâ€frequency waves in the foreshock of Saturn: First results from Cassini. Journal of Geophysical Research, 2007, 112, .	3.3	18
84	Strong rapid dipolarizations in Saturn's magnetotail: In situ evidence of reconnection. Geophysical Research Letters, 2007, 34, .	4.0	93
85	Saturn's auroral/polar H+3 infrared emission. Icarus, 2007, 189, 1-13.	2.5	40
86	Saturn's auroral/polar H+3 infrared emission. Icarus, 2007, 191, 678-690.	2.5	29
87	Orientation, location, and velocity of Saturn's bow shock: Initial results from the Cassini spacecraft. Journal of Geophysical Research, 2006, 111, .	3.3	50
88	Modeling the size and shape of Saturn's magnetopause with variable dynamic pressure. Journal of Geophysical Research, 2006, 111, .	3.3	133
89	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
90	On the dynamics of the jovian ionosphere and thermosphere Icarus, 2005, 173, 200-211.	2.5	51

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91	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
92	Bow Shock and Upstream Waves at Jupiter and Saturn: Cassini Magnetometer Observations. AIP Conference Proceedings, 2005, , .	0.4	2
93	Cassini Magnetometer Observations During Saturn Orbit Insertion. Science, 2005, 307, 1266-1270.	12.6	211
94	Titan's Magnetic Field Signature During the First Cassini Encounter. Science, 2005, 308, 992-995.	12.6	133
95	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
96	Global MHD simulations of Saturn's magnetosphere at the time of Cassini approach. Geophysical Research Letters, 2005, 32, .	4.0	57
97	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
98	Magnetic signatures of Jupiter's bow shock during the Cassini flyby. Journal of Geophysical Research, 2004, 109, .	3.3	8
99	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
100	Thermospheric general circulation models for the giant planets: The Jupiter case. Geophysical Monograph Series, 2002, , 289-298.	0.1	6
101	Asteroseismology of RXJÂ2117+3412, the hottest pulsating PGÂ1159 star. Astronomy and Astrophysics, 2002, 381, 122-150.	5.1	32
102	A dynamical model of Jupiter's auroral electrojet. New Journal of Physics, 2001, 3, 3-3.	2.9	23
103	The role of H3+in planetary atmospheres. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2000, 358, 2485-2502.	3.4	106
104	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
105	Infrared spectroscopic studies of the jovian ionsophere and aurorae. Advances in Space Research, 2000, 26, 1477-1488.	2.6	7
106	Supersonic winds in Jupiter's aurorae. Nature, 1999, 399, 121-124.	27.8	60
107	JIM: A time-dependent, three-dimensional model of Jupiter's thermosphere and ionosphere. Journal of Geophysical Research, 1998, 103, 20089-20112.	3.3	107
108	Understanding the Cool DA White Dwarf Pulsator, G29â^'38. Astrophysical Journal, 1998, 495, 424-434.	4.5	98

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109	UKIRT Observations of the Impact and Consequences of Comet Shoemaker–Levy 9 on Jupiterâ~†. Icarus, 1997, 126, 107-125.	2.5	24
110	A Baseline Spectroscopic Study of the Infrared Auroras of Jupiter. Icarus, 1997, 127, 379-393.	2.5	92
111	Mid-to-Low Latitude H+3Emission from Jupiter. Icarus, 1997, 130, 57-67.	2.5	72
112	Collision of comet Shoemaker-Levy 9 with Jupiter observed by the NASA infrared telescope facility. Science, 1995, 267, 1277-1282.	12.6	68
113	The effect of the impact of comet Shoemaker Levy-9 on Jupiter's aurorae. Geophysical Research Letters, 1995, 22, 1629-1632.	4.0	17
114	Asteroseismology of the DOV star PG 1159 - 035 with the Whole Earth Telescope. Astrophysical Journal, 1991, 378, 326.	4.5	223
115	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
116	Enceladus and Titan: emerging worlds of the Solar System. Experimental Astronomy, 0, , 1.	3.7	1