

# Philip D Nicholson

## List of Publications by Year in descending order

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50  
papers

2,407  
citations

279798

23  
h-index

223800

46  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1462  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kronoseismology. VI. Reading the Recent History of Saturn's Gravity Field in Its Rings. Planetary Science Journal, 2022, 3, 61.	3.6	4
2	Kronoseismology V: A panoply of waves in Saturn's C ring driven by high-order internal planetary oscillations. Icarus, 2021, 370, 114660.	2.5	4
3	Spin Dynamics of Extrasolar Giant Planets in Planet-Planet Scattering. Astrophysical Journal, 2021, 920, 151.	4.5	3
4	Occultation observations of Saturn's rings with Cassini VIMS. Icarus, 2020, 344, 113356.	2.5	6
5	Saturn's C ring and Cassini division: Particle sizes from Cassini UVIS, VIMS, and RSS occultations. Icarus, 2020, 344, 113565.	2.5	3
6	Close-range remote sensing of Saturn's rings during Cassini's ring-grazing orbits and Grand Finale. Science, 2019, 364, .	12.6	17
7	Axisymmetric density waves in Saturn's rings. Monthly Notices of the Royal Astronomical Society, 2019, 485, 13-29.	4.4	7
8	Close Cassini flybys of Saturn's ring moons Pan, Daphnis, Atlas, Pandora, and Epimetheus. Science, 2019, 364, .	12.6	24
9	Kronoseismology. IV. Six Previously Unidentified Waves in Saturn's Middle C Ring. Astronomical Journal, 2019, 157, 18.	4.7	16
10	Kronoseismology III: Waves in Saturn's inner C ring. Icarus, 2019, 319, 599-626.	2.5	21
11	Measurement and implications of Saturn's gravity field and ring mass. Science, 2019, 364, .	12.6	148
12	Innocent Bystanders: Orbital Dynamics of Exomoons During Planet-Planet Scattering. Astrophysical Journal, 2018, 852, 85.	4.5	45
13	Observational evidence for active dust storms on Titan at equinox. Nature Geoscience, 2018, 11, 727-732.	12.9	18
14	The Eye of Saturn's North Polar Vortex: Unexpected Cloud Structures Observed at High Spatial Resolution by Cassini/VIMS. Geophysical Research Letters, 2018, 45, 5867-5875.	4.0	6
15	The Search for Activity on Dione and Tethys With Cassini VIMS and UVIS. Geophysical Research Letters, 2018, 45, 5860-5866.	4.0	4
16	Dynamical phenomena at the inner edge of the Keeler gap. Icarus, 2017, 289, 80-93.	2.5	12
17	Noncircular features in Saturn's rings IV: Absolute radius scale and Saturn's pole direction. Icarus, 2017, 290, 14-45.	2.5	48
18	What Confines the Rings of Saturn?. Astrophysical Journal, Supplement Series, 2017, 232, 28.	7.7	38

#	ARTICLE	IF	CITATIONS
19	Deciphering the embedded wave in Saturn's Maxwell ringlet. <i>Icarus</i> , 2016, 279, 62-77.	2.5	31
20	Small particles and self-gravity wakes in Saturn's rings from UVIS and VIMS stellar occultations. <i>Icarus</i> , 2016, 279, 36-50.	2.5	17
21	High-angular-resolution stellar imaging with occultations from the Cassini spacecraft III. <i>Mira. Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 1410-1418.	4.4	8
22	Orbital instability of close-in exomoons in non-coplanar systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 828-834.	4.4	28
23	More Kronoseismology with Saturn's rings. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 1369-1388.	4.4	49
24	Transient features in a Titan sea. <i>Nature Geoscience</i> , 2014, 7, 493-496.	12.9	43
25	The smallest particles in Saturn's A and C Rings. <i>Icarus</i> , 2013, 226, 1225-1240.	2.5	19
26	THE RADIAL DISTRIBUTION OF WATER ICE AND CHROMOPHORES ACROSS SATURN'S SYSTEM. <i>Astrophysical Journal</i> , 2013, 766, 76.	4.5	26
27	High-angular-resolution stellar imaging with occultations from the Cassini spacecraft I. Observational technique. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 2286-2293.	4.4	9
28	KRONOSEISMOLOGY: USING DENSITY WAVES IN SATURN'S C RING TO PROBE THE PLANET'S INTERIOR. <i>Astronomical Journal</i> , 2013, 146, 12.	4.7	99
29	The surface composition of Iapetus: Mapping results from Cassini VIMS. <i>Icarus</i> , 2012, 218, 831-860.	2.5	136
30	Detection and mapping of hydrocarbon deposits on Titan. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	147
31	An Evolving View of Saturn's Dynamic Rings. <i>Science</i> , 2010, 327, 1470-1475.	12.6	127
32	The spectrum of a Saturn ring spoke from Cassini/VIMS. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	6
33	Global mapping of Titan in the infrared using a heuristic approach to reduce the atmospheric scattering component. , 2010, , .		2
34	The Structure of Saturn's Rings. , 2009, , 375-412.		62
35	A close look at Saturn's rings with Cassini VIMS. <i>Icarus</i> , 2008, 193, 182-212.	2.5	113
36	Self-Gravity Wake Structures in Saturn's A Ring Revealed by Cassini VIMS. <i>Astronomical Journal</i> , 2007, 133, 2624-2629.	4.7	92

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37	Cassini imaging of Saturn's rings. <i>Icarus</i> , 2007, 189, 14-34.	2.5	107
38	Observations in the Saturn system during approach and orbital insertion, with Cassini's visual and infrared mapping spectrometer (VIMS). <i>Astronomy and Astrophysics</i> , 2006, 446, 707-716.	5.1	57
39	Unravelling Temporal Variability in Saturn's Spiral Density Waves: Results and Predictions. <i>Astrophysical Journal</i> , 2006, 651, L65-L68.	4.5	33
40	The Cassini Visual And Infrared Mapping Spectrometer (Vims) Investigation. <i>Space Science Reviews</i> , 2004, 115, 111-168.	8.1	369
41	Discovery of 12 satellites of Saturn exhibiting orbital clustering. <i>Nature</i> , 2001, 412, 163-166.	27.8	99
42	Discovery of two distant irregular moons of Uranus. <i>Nature</i> , 1998, 392, 897-899.	27.8	68
43	Earth-based observations of impact phenomena. <i>International Astronomical Union Colloquium</i> , 1996, 156, 81-109.	0.1	0
44	Earth-based observations of impact phenomena. , 1996, , 81-110.		10
45	Palomar observations of the R impact of comet Shoemaker-Levy 9: II. Spectra. <i>Geophysical Research Letters</i> , 1995, 22, 1617-1620.	4.0	30
46	Palomar observations of the R impact of comet Shoemaker-Levy 9: I. Light curves. <i>Geophysical Research Letters</i> , 1995, 22, 1613-1616.	4.0	23
47	Geometry of the Saturn System from the 3 July 1989 Occultation of 28 Sgr and Voyager Observations. <i>Icarus</i> , 1993, 103, 163-214.	2.5	91
48	Dynamics of the Zodiacal Cloud. <i>Symposium - International Astronomical Union</i> , 1992, 152, 333-347.	0.1	6
49	Planetary Rings. <i>Reviews of Geophysics</i> , 1991, 29, 313-327.	23.0	33
50	An absolute radius scale for Saturn's rings. <i>Astronomical Journal</i> , 1990, 100, 1339.	4.7	43