Philip D Nicholson

List of Publications by Year
in descending order

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	The Cassini Visual And Infrared Mapping Spectrometer (Vims) Investigation. Space Science Reviews, 2004, 115, 111-168.	8.1	369
2	Measurement and implications of Saturnâ€™s gravity field and ring mass. Science, 2019, 364, .	12.6	148
3	Detection and mapping of hydrocarbon deposits on Titan. Journal of Geophysical Research, 2010, 115, .	3.3	147
4	The surface composition of Iapetus: Mapping results from Cassini VIMS. Icarus, 2012, 218, 831-860.	2.5	136
5	An Evolving View of Saturnâ€™s Dynamic Rings. Science, 2010, 327, 1470-1475.	12.6	127
6	A close look at Saturn's rings with Cassini VIMS. Icarus, 2008, 193, 182-212.	2.5	113
7	Cassini imaging of Saturn's rings. Icarus, 2007, 189, 14-34.	2.5	107
8	Discovery of 12 satellites of Saturn exhibiting orbital clustering. Nature, 2001, 412, 163-166.	27.8	99
9	KRONOSEISMOLOGY: USING DENSITY WAVES IN SATURN'S C RING TO PROBE THE PLANET'S INTERIOR. Astronomical Journal, 2013, 146, 12.	4.7	99
10	Self-Gravity Wake Structures in Saturn's A Ring Revealed byCassiniVIMS. Astronomical Journal, 2007, 133, 2624-2629.	4.7	92
11	Geometry of the Saturn System from the 3 July 1989 Occultation of 28 Sgr and Voyager Observations. Icarus, 1993, 103, 163-214.	2.5	91
12	Discovery of two distant irregular moons of Uranus. Nature, 1998, 392, 897-899.	27.8	68
13	The Structure of Saturn's Rings. , 2009, , 375-412.		62
14	Observations in the Saturn system during approach and orbital insertion, with Cassini's visual and infrared mapping spectrometer (VIMS). Astronomy and Astrophysics, 2006, 446, 707-716.	5.1	57
15	More Kronoseismology with Saturn's rings. Monthly Notices of the Royal Astronomical Society, 2014, 444, 1369-1388.	4.4	49
16	Noncircular features in Saturnâ€™s rings IV: Absolute radius scale and Saturnâ€™s pole direction. Icarus, 2017, 290, 14-45.	2.5	48
17	Innocent Bystanders: Orbital Dynamics of Exomoons During Planetâ€“Planet Scattering. Astrophysical Journal, 2018, 852, 85.	4.5	45
18	Transient features in a Titan sea. Nature Geoscience, 2014, 7, 493-496.	12.9	43

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19	An absolute radius scale for Saturn's rings. Astronomical Journal, 1990, 100, 1339.	4.7	43
20	What Confines the Rings of Saturn?. Astrophysical Journal, Supplement Series, 2017, 232, 28.	7.7	38
21	Planetary Rings. Reviews of Geophysics, 1991, 29, 313-327.	23.0	33
22	Unravelling Temporal Variability in Saturn's Spiral Density Waves: Results and Predictions. Astrophysical Journal, 2006, 651, L65-L68.	4.5	33
23	Deciphering the embedded wave in Saturnâ€™s Maxwell ringlet. Icarus, 2016, 279, 62-77.	2.5	31
24	Palomar observations of the R impact of comet Shoemaker-Levy 9: II. Spectra. Geophysical Research Letters, 1995, 22, 1617-1620.	4.0	30
25	Orbital instability of close-in exomoons in non-coplanar systems. Monthly Notices of the Royal Astronomical Society, 2015, 449, 828-834.	4.4	28
26	THE RADIAL DISTRIBUTION OF WATER ICE AND CHROMOPHORES ACROSS SATURN'S SYSTEM. Astrophysical Journal, 2013, 766, 76.	4.5	26
27	Close Cassini flybys of Saturnâ€™s ring moons Pan, Daphnis, Atlas, Pandora, and Epimetheus. Science, 2019, 364, .	12.6	24
28	Palomar observations of the R impact of comet Shoemaker-Levy 9: I. Light curves. Geophysical Research Letters, 1995, 22, 1613-1616.	4.0	23
29	Kronoseismology III: Waves in Saturnâ€™s inner C ring. Icarus, 2019, 319, 599-626.	2.5	21
30	The smallest particles in Saturnâ€™s A and C Rings. Icarus, 2013, 226, 1225-1240.	2.5	19
31	Observational evidence for active dust storms on Titan at equinox. Nature Geoscience, 2018, 11, 727-732.	12.9	18
32	Small particles and self-gravity wakes in Saturn's rings from UVIS and VIMS stellar occultations. Icarus, 2016, 279, 36-50.	2.5	17
33	Close-range remote sensing of Saturnâ€™s rings during Cassiniâ€™s ring-grazing orbits and Grand Finale. Science, 2019, 364, .	12.6	17
34	Kronoseismology. IV. Six Previously Unidentified Waves in Saturnâ€™s Middle C Ring. Astronomical Journal, 2019, 157, 18.	4.7	16
35	Dynamical phenomena at the inner edge of the Keeler gap. Icarus, 2017, 289, 80-93.	2.5	12
36	Earth-based observations of impact phenomena. , 1996, , 81-110.		10

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37	High-angular-resolution stellar imaging with occultations from the Cassini spacecraft â€“ I. Observational technique. Monthly Notices of the Royal Astronomical Society, 2013, 433, 2286-2293.	4.4	9
38	High-angular-resolution stellar imaging with occultations from theCassinispacecraft â€“ III. Mira. Monthly Notices of the Royal Astronomical Society, 2016, 457, 1410-1418.	4.4	8
39	Axisymmetric density waves in Saturnâ€™s rings. Monthly Notices of the Royal Astronomical Society, 2019, 485, 13-29.	4.4	7
40	Dynamics of the Zodiacal Cloud. Symposium - International Astronomical Union, 1992, 152, 333-347.	0.1	6
41	The spectrum of a Saturn ring spoke from Cassini/VIMS. Geophysical Research Letters, 2010, 37, .	4.0	6
42	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
43	Occultation observations of Saturn's rings with Cassini VIMS. Icarus, 2020, 344, 113356.	2.5	6
44	The Search for Activity on Dione and Tethys WithCassiniVIMS and UVIS. Geophysical Research Letters, 2018, 45, 5860-5866.	4.0	4
45	Kronoseismology V: A panoply of waves in Saturnâ€™s C ring driven by high-order internal planetary oscillations. Icarus, 2021, 370, 114660.	2.5	4
46	Kronoseismology. VI. Reading the Recent History of Saturnâ€™s Gravity Field in Its Rings. Planetary Science Journal, 2022, 3, 61.	3.6	4
47	Saturn's C ring and Cassini division: Particle sizes from Cassini UVIS, VIMS, and RSS occultations. Icarus, 2020, 344, 113565.	2.5	3
48	Spin Dynamics of Extrasolar Giant Planets in Planetâ€“Planet Scattering. Astrophysical Journal, 2021, 920, 151.	4.5	3
49	Global mapping of Titan in the infrared using a heuristic approach to reduce the atmospheric scattering component. , 2010, , .		2
50	Earth-based observations of impact phenomena. International Astronomical Union Colloquium, 1996, 156, 81-109.	0.1	0