Bruno Sicardy

List of Publications by Year
in descending order

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63	2,934	201674	175258
papers	citations	27 h-index	52 g-index

76	76	76	1593
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Voyager 2 at Neptune: Imaging Science Results. Science, 1989, 246, 1422-1449.	12.6	573
2	A ring system detected around the Centaur (10199) Chariklo. Nature, 2014, 508, 72-75.	27.8	230
3	The size, shape, density and ring of the dwarf planet Haumea from a stellar occultation. Nature, 2017, 550, 219-223.	27.8	179
4	A Pluto-like radius and a high albedo for the dwarf planet Eris from an occultation. Nature, 2011, 478, 493-496.	27.8	156
5	On the physics of resonant disk-satellite interaction. Icarus, 1987, 69, 157-175.	2.5	130
6	Large changes in Pluto's atmosphere as revealed by recent stellar occultations. Nature, 2003, 424, 168-170.	27.8	120
7	THE OUTER SOLAR SYSTEM ORIGINS SURVEY. I. DESIGN AND FIRST-QUARTER DISCOVERIES. Astronomical Journal, 2016, 152, 70.	4.7	105
8	Albedo and atmospheric constraints of dwarf planet Makemake from a stellar occultation. Nature, 2012, 491, 566-569.	27.8	95
9	Occultation detection of a neptunian ring-like arc. Nature, 1986, 319, 636-640.	27.8	86
10	PLUTOâ€™S ATMOSPHERE FROM THE 2015 JUNE 29 GROUND-BASED STELLAR OCCULTATION AT THE TIME OF THE NEW HORIZONS FLYBY*. Astrophysical Journal Letters, 2016, 819, L38.	8.3	82
11	THE SIZE, SHAPE, ALBEDO, DENSITY, AND ATMOSPHERIC LIMIT OF TRANSNEPTUNIAN OBJECT (50000) QUAOAR FROM MULTI-CHORD STELLAR OCCULTATIONS. Astrophysical Journal, 2013, 773, 26.	4.5	79
12	Stellar occultations by small bodies - Diffraction effects. Astronomical Journal, 1987, 93, 1549.	4.7	73
13	PLUTOâ€™s ATMOSPHERE FROM STELLAR OCCULTATIONS IN 2012 AND 2013. Astrophysical Journal, 2015, 811, 53.	4.5	55
14	The Structure of Charikloâ€™s Rings from Stellar Occultations. Astronomical Journal, 2017, 154, 144.	4.7	52
15	Use of the Geometric Elements in Numerical Simulations. Celestial Mechanics and Dynamical Astronomy, 2006, 94, 237-248.	1.4	49
16	Images of Neptune's ring arcs obtained by a ground-based telescope. Nature, 1999, 400, 731-733.	27.8	44
17	Precise predictions of stellar occultations by Pluto, Charon, Nix, and Hydra for 2008â€“2015. Astronomy and Astrophysics, 2010, 515, A32.	5.1	40
18	Orbit determination of trans-Neptunian objects and Centaurs for the prediction of stellar occultations. Astronomy and Astrophysics, 2015, 584, A96.	5.1	39

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19	Photometric and spectroscopic evidence for a dense ring system around Centaur Chariklo. Astronomy and Astrophysics, 2014, 568, A79.	5.1	36
20	The Dynamics of the Neptunian Adams Ring's Arcs. Icarus, 1996, 123, 129-167.	2.5	35
21	Size and Shape of Chariklo from Multi-epoch Stellar Occultations[*]. Astronomical Journal, 2017, 154, 159.	4.7	34
22	The thermal emission of Centaurs and trans-Neptunian objects at millimeter wavelengths from ALMA observations. Astronomy and Astrophysics, 2017, 608, A45.	5.1	34
23	Study of the Plutino Object (208996) 2003 AZ₈₄ from Stellar Occultations: Size, Shape, and Topographic Features. Astronomical Journal, 2017, 154, 22.	4.7	31
24	RESULTS FROM THE 2014 NOVEMBER 15TH MULTI-CHORD STELLAR OCCULTATION BY THE TNO (229762) 2007 UK₁₂₆. Astronomical Journal, 2016, 152, 156.	4.7	30
25	Stationary Configurations for Co-orbital Satellites with Small Arbitrary Masses. Celestial Mechanics and Dynamical Astronomy, 2004, 88, 397-414.	1.4	29
26	Lower atmosphere and pressure evolution on Pluto from ground-based stellar occultations, 1988â€“2016. Astronomy and Astrophysics, 2019, 625, A42.	5.1	29
27	Occultation determination of Neptune's oblateness and stratospheric methane mixing ratio. Nature, 1986, 324, 227-231.	27.8	28
28	Coupling between corotation and Lindblad resonances in the presence of secular precession rates. Celestial Mechanics and Dynamical Astronomy, 2014, 118, 235-252.	1.4	28
29	Candidate stellar occultations by large trans-Neptunian objects up to 2015. Astronomy and Astrophysics, 2012, 541, A142.	5.1	27
30	Titania's radius and an upper limit on its atmosphere from the September 8, 2001 stellar occultation. Icarus, 2009, 199, 458-476.	2.5	26
31	Ring dynamics around non-axisymmetric bodies with application to Chariklo and Haumea. Nature Astronomy, 2019, 3, 146-153.	10.1	26
32	Prometheus and Pandora: masses and orbital positions during the Cassini tour. Icarus, 2005, 174, 230-240.	2.5	24
33	Numerical exploration of planetary arc dynamics. Icarus, 1991, 89, 197-219.	2.5	23
34	Candidate stellar occultations by Centaurs and trans-Neptunian objects up to 2014. Astronomy and Astrophysics, 2014, 561, A37.	5.1	22
35	CONSTRAINTS ON CHARON'S ORBITAL ELEMENTS FROM THE DOUBLE STELLAR OCCULTATION OF 2008 JUNE 22. Astronomical Journal, 2011, 141, 67.	4.7	21
36	Stellar occultation by (119951) 2002 KX₁₄on April 26, 2012. Astronomy and Astrophysics, 2014, 571, A48.	5.1	18

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37	Refined physical parameters for Charikloâ€™s body and rings from stellar occultations observed between 2013 and 2020. Astronomy and Astrophysics, 2021, 652, A141.	5.1	17
38	A multi-chord stellar occultation by the large trans-Neptunian object (174567) Varda. Astronomy and Astrophysics, 2020, 643, A125.	5.1	17
39	SORA: Stellar occultation reduction and analysis. Monthly Notices of the Royal Astronomical Society, 2022, 511, 1167-1181.	4.4	17
40	Neptuneâ€™s ring arcs: VLT/NACO near-infrared observations and a model to explain their stability. Astronomy and Astrophysics, 2014, 563, A133.	5.1	16
41	Plutoâ€™s ephemeris from ground-based stellar occultations (1988â€“2016). Astronomy and Astrophysics, 2019, 625, A43.	5.1	14
42	Stellar occultations by Trans-Neptunian objects: From predictions to observations and prospects for the future. , 2020, , 413-437.		14
43	An exploration of Plutoâ€™s environment through stellar occultations. Astronomy and Astrophysics, 2014, 561, A144.	5.1	13
44	The large trans-Neptunian object 2002 TC₃₀₂from combined stellar occultation, photometry, and astrometry data. Astronomy and Astrophysics, 2020, 639, A134.	5.1	13
45	The Rings of Neptune. , 0, , 112-124.		12
46	Stellar occultations enable milliarcsecond astrometry for Trans-Neptunian objects and Centaurs. Astronomy and Astrophysics, 2020, 644, A40.	5.1	11
47	Results of two multichord stellar occultations by dwarf planet (1) Ceres. Monthly Notices of the Royal Astronomical Society, 2015, 451, 2295-2302.	4.4	10
48	The Trans-Neptunian Object (84922) 2003 VS₂ through Stellar Occultations. Astronomical Journal, 2019, 158, 159.	4.7	10
49	The future of stellar occultations by distant solar system bodies: Perspectives from the Gaia astrometry and the deep sky surveys. Planetary and Space Science, 2018, 154, 59-62.	1.7	9
50	Constraints on the structure and seasonal variations of Tritonâ€™s atmosphere from the 5 October 2017 stellar occultation and previous observations. Astronomy and Astrophysics, 2022, 659, A136.	5.1	8
51	Plutoâ€™s Atmosphere in Plateau Phase Since 2015 from a Stellar Occultation at Devasthal. Astrophysical Journal Letters, 2021, 923, L31.	8.3	8
52	Database on detected stellar occultations by small outer Solar System objects. Journal of Physics: Conference Series, 2019, 1365, 012024.	0.4	7
53	A Single-chord Stellar Occultation by the Extreme Trans-Neptunian Object (541132) LeleÄkÅ«honua. Astronomical Journal, 2020, 159, 230.	4.7	7
54	Milliarcsecond Astrometry for the Galilean Moons Using Stellar Occultations. Astronomical Journal, 2022, 163, 240.	4.7	7

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55	The dynamics of rings around Centaurs and Trans-Neptunian objects. , 2020, , 249-269.		6
56	Resonances in Nonaxisymmetric Gravitational Potentials. Astronomical Journal, 2020, 159, 102.	4.7	6
57	The first observed stellar occultations by the irregular satellite Phoebe (Saturn IX) and improved rotational period. Monthly Notices of the Royal Astronomical Society, 2020, 492, 770-781.	4.4	6
58	ORIGIN OF THE CHAOTIC MOTION OF THE SATURNIAN SATELLITE ATLAS. Astronomical Journal, 2016, 151, 122.	4.7	3
59	Derivation of capture probabilities for the corotation eccentric mean motion resonances. Monthly Notices of the Royal Astronomical Society, 2017, 469, 2380-2386.	4.4	3
60	The 2017 May 20 stellar occultation by the elongated centaur (95626) 2002 GZ32. Monthly Notices of the Royal Astronomical Society, 2021, 501, 6062-6075.	4.4	3
61	Rings Beyond the Giant Planets. , 0, , 135-154.		2
62	Neptuneâ€™s ring arcs from VLT/SPHERE-IRDIS near-infrared observations. Astronomy and Astrophysics, 2022, 657, A134.	5.1	2
63	The dynamics of the outer edge of Saturnâ€™s A ring perturbed by the satellites Janus and Epimetheus. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5037-5045.	4.4	1