

David E Trilling

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

53
papers

807
citations

16
h-index

27
g-index

54
ext. papers

991
ext. citations

5.6
avg, IF

3.72
L-index

#	Paper	IF	Citations
53	Optimization of the Observing Cadence for the Rubin Observatory Legacy Survey of Space and Time: A Pioneering Process of Community-focused Experimental Design. <i>Astrophysical Journal, Supplement Series</i> , 2022 , 258, 1	8	9
52	GPU-enabled searches for periodic signals of unknown shape. <i>Astronomy and Computing</i> , 2021 , 38, 1005114	11.4	0
51	Asteroid Lightcurves and Detection, Shape, and Size Biases in Large-scale Surveys. <i>Research Notes of the AAS</i> , 2021 , 5, 111	0.8	0
50	Year 1 of the Legacy Survey of Space and Time (LSST): Recommendations for Template Production to Enable Solar System Small Body Transient and Time Domain Science. <i>Research Notes of the AAS</i> , 2021 , 5, 143	0.8	0
49	Discovery of superslow rotating asteroids with ATLAS and ZTF photometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 506, 3872-3881	4.3	0
48	Fast period searches using the Lomb-Scargle algorithm on Graphics Processing Units for large datasets and real-time applications. <i>Astronomy and Computing</i> , 2021 , 36, 100472	2.4	1
47	Comparison of the Physical Properties of the L4 and L5 Trojan Asteroids from ATLAS Data. <i>Planetary Science Journal</i> , 2021 , 2, 6	2.9	1
46	The Sizes and Albedos of Centaurs 2014 YY49 and 2013 NL24 from Stellar Occultation Measurements by RECON. <i>Planetary Science Journal</i> , 2021 , 2, 22	2.9	1
45	Cometary Activity Discovered on a Distant Centaur: A Nonaqueous Sublimation Mechanism. <i>Astrophysical Journal Letters</i> , 2020 , 892, L38	7.9	3
44	Investigating Taxonomic Diversity within Asteroid Families through ATLAS Dual-band Photometry. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 247, 13	8	5
43	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020 , 367,	33.3	43
42	Systematic Characterization of and Search for Activity in Potentially Active Asteroids. <i>Planetary Science Journal</i> , 2020 , 1, 10	2.9	3
41	Recurrent Cometary Activity in Near-Earth Object (3552) Don Quixote. <i>Planetary Science Journal</i> , 2020 , 1, 12	2.9	7
40	Spitzer Solar System studies of comets, centaurs and Kuiper belt objects. <i>Nature Astronomy</i> , 2020 , 4, 930-939	12.1	3
39	Spitzer Solar System studies of asteroids, planets and the zodiacal cloud. <i>Nature Astronomy</i> , 2020 , 4, 940-946	12.1	5
38	Distinguishing multicellular life on exoplanets by testing Earth as an exoplanet. <i>International Journal of Astrobiology</i> , 2020 , 19, 492-499	1.4	
37	Constraining the Shape Distribution of Near-Earth Objects from Partial Light Curves. <i>Astronomical Journal</i> , 2019 , 157, 164	4.9	6

36	Six Years of Sustained Activity in (6478) Gault. <i>Astrophysical Journal Letters</i> , 2019 , 877, L12	7.9	16
35	First Results from the Rapid-response Spectrophotometric Characterization of Near-Earth Objects Using RATIR. <i>Astronomical Journal</i> , 2019 , 157, 190	4.9	2
34	A Taxonomic Study of Asteroid Families from KMTNET-SAAO Multiband Photometry. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 242, 15	8	5
33	Spitzer Albedos of Near-Earth Objects. <i>Astronomical Journal</i> , 2019 , 158, 67	4.9	1
32	A Software Roadmap for Solar System Science with the Large Synoptic Survey Telescope. <i>Research Notes of the AAS</i> , 2019 , 3, 51	0.8	5
31	Asteroid Photometry from the Transiting Exoplanet Survey Satellite: A Pilot Study. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 245, 29	8	4
30	Visible Spectroscopy from the Mission Accessible Near-Earth Object Survey (MANOS): Taxonomic Dependence on Asteroid Size. <i>Astronomical Journal</i> , 2019 , 158, 196	4.9	13
29	Constraints on the Density and Internal Strength of 11/Dumumua. <i>Astrophysical Journal Letters</i> , 2018 , 857, L1	7.9	15
28	An Investigation of the Ranges of Validity of Asteroid Thermal Models for Near-Earth Asteroid Observations. <i>Astronomical Journal</i> , 2018 , 155, 74	4.9	10
27	Taxonomy and Light-curve Data of 1000 Serendipitously Observed Main-belt Asteroids. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 237, 19	8	8
26	Spitzer Observations of Interstellar Object 11/Dumumua. <i>Astronomical Journal</i> , 2018 , 156, 261	4.9	55
25	The Mission Accessible Near-Earth Objects Survey: Four Years of Photometry. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 239, 4	8	5
24	Extreme Asteroids in the Pan-STARRS 1 Survey. <i>Astronomical Journal</i> , 2018 , 156, 282	4.9	4
23	The Main Belt Asteroid Shape Distribution from Gaia Data Release 2. <i>Astronomical Journal</i> , 2018 , 156, 139	4.9	8
22	Infrared Light Curves of Near-Earth Objects. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 238, 22	8	3
21	On the Detectability of Planet X with LSST. <i>Astronomical Journal</i> , 2018 , 155, 243	4.9	2
20	The Size Distribution of Near-Earth Objects Larger Than 10 m. <i>Astronomical Journal</i> , 2017 , 154, 170	4.9	20
19	Characterization of Near-Earth Asteroids Using KMTNET-SAAO. <i>Astronomical Journal</i> , 2017 , 154, 162	4.9	12

18	Implications for Planetary System Formation from Interstellar Object 1I/2017 U1 (Dumuaumua). <i>Astrophysical Journal Letters</i> , 2017 , 850, L38	7.9	53
17	NEOSURVEY 1: INITIAL RESULTS FROM THE WARMSPITZEREXPLORATION SCIENCE SURVEY OF NEAR-EARTH OBJECT PROPERTIES. <i>Astronomical Journal</i> , 2016 , 152, 172	4.9	16
16	FIRST RESULTS FROM THE RAPID-RESPONSE SPECTROPHOTOMETRIC CHARACTERIZATION OF NEAR-EARTH OBJECTS USING UKIRT. <i>Astronomical Journal</i> , 2016 , 151, 98	4.9	13
15	The Surface Age of Sputnik Planum, Pluto, Must Be Less than 10 Million Years. <i>PLoS ONE</i> , 2016 , 11, e0147386	3.7	7
14	EXPLORENEOs. VIII. DORMANT SHORT-PERIOD COMETS IN THE NEAR-EARTH ASTEROID POPULATION. <i>Astronomical Journal</i> , 2015 , 150, 106	4.9	9
13	Trajectory and physical properties of near-Earth asteroid 2009 BD. <i>Proceedings of the International Astronomical Union</i> , 2014 , 9, 142-145	0.1	1
12	Asteroid spin-axis longitudes from the Lowell Observatory database. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 95-102	2.8	22
11	PHYSICAL PROPERTIES OF NEAR-EARTH ASTEROID 2011 MD. <i>Astrophysical Journal Letters</i> , 2014 , 789, L22	7.9	21
10	THE DISCOVERY OF COMETARY ACTIVITY IN NEAR-EARTH ASTEROID (3552) DON QUIXOTE. <i>Astrophysical Journal</i> , 2014 , 781, 25	4.7	52
9	CONSTRAINING THE PHYSICAL PROPERTIES OF NEAR-EARTH OBJECT 2009 BD. <i>Astrophysical Journal</i> , 2014 , 786, 148	4.7	27
8	ExploreNEOs. II. THE ACCURACY OF THE WARMSPITZERNEAR-EARTH OBJECT SURVEY. <i>Astronomical Journal</i> , 2011 , 141, 75	4.9	21
7	ExploreNEOs. III. PHYSICAL CHARACTERIZATION OF 65 POTENTIAL SPACECRAFT TARGET ASTEROIDS. <i>Astronomical Journal</i> , 2011 , 141, 109	4.9	51
6	ExploreNEOs. V. AVERAGE ALBEDO BY TAXONOMIC COMPLEX IN THE NEAR-EARTH ASTEROID POPULATION. <i>Astronomical Journal</i> , 2011 , 142, 85	4.9	57
5	EXPLORENEOs. I. DESCRIPTION AND FIRST RESULTS FROM THE WARMSPITZERNEAR-EARTH OBJECT SURVEY. <i>Astronomical Journal</i> , 2010 , 140, 770-784	4.9	55
4	THE INCLINATIONS OF FAINT TRANS-NEPTUNIAN OBJECTS. <i>Astrophysical Journal Letters</i> , 2010 , 724, L22-L24	7.9	1
3	TNOs are Cool: A Survey of the Transneptunian Region. <i>Earth, Moon and Planets</i> , 2009 , 105, 209-219	0.6	50
2	Composition of KBO (50000) Quaoar. <i>Astronomy and Astrophysics</i> , 2009 , 501, 349-357	5.1	44
1	Ices on (90377) Sedna: confirmation and compositional constraints. <i>Astronomy and Astrophysics</i> , 2007 , 466, 395-398	5.1	31

