

David E Trilling

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,174
citations

361413

20
h-index

414414

32
g-index

54
all docs

54
docs citations

54
times ranked

1133
citing authors

#	ARTICLE	IF	CITATIONS
1	Spitzer Observations of Interstellar Object 1I/â€™Oumuamua. <i>Astronomical Journal</i> , 2018, 156, 261.	4.7	80
2	The geology and geophysics of Kuiper Belt object (486958) Arrokoth. <i>Science</i> , 2020, 367, .	12.6	76
3	Implications for Planetary System Formation from Interstellar Object 1I/2017 U1 (â€™Oumuamua). <i>Astrophysical Journal Letters</i> , 2017, 850, L38.	8.3	73
4	ExploreNEOs. V. AVERAGE ALBEDO BY TAXONOMIC COMPLEX IN THE NEAR-EARTH ASTEROID POPULATION. <i>Astronomical Journal</i> , 2011, 142, 85.	4.7	69
5	EXPLORENEOs. I. DESCRIPTION AND FIRST RESULTS FROM THE WARM<i>SPITZER</i> NEAR-EARTH OBJECT SURVEY. <i>Astronomical Journal</i> , 2010, 140, 770-784.	4.7	68
6	THE DISCOVERY OF COMETARY ACTIVITY IN NEAR-EARTH ASTEROID (3552) DON QUIXOTE. <i>Astrophysical Journal</i> , 2014, 781, 25.	4.5	68
7	ExploreNEOs. III. PHYSICAL CHARACTERIZATION OF 65 POTENTIAL SPACECRAFT TARGET ASTEROIDS. <i>Astronomical Journal</i> , 2011, 141, 109.	4.7	57
8	TNOs are Cool: A Survey of the Transneptunian Region. <i>Earth, Moon and Planets</i> , 2009, 105, 209-219.	0.6	55
9	Composition of KBO (50000) Quaoar. <i>Astronomy and Astrophysics</i> , 2009, 501, 349-357.	5.1	49
10	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.	7.7	40
11	Ices on (90377) Sedna: confirmation and compositional constraints. <i>Astronomy and Astrophysics</i> , 2007, 466, 395-398.	5.1	37
12	CONSTRAINING THE PHYSICAL PROPERTIES OF NEAR-EARTH OBJECT 2009 BD. <i>Astrophysical Journal</i> , 2014, 786, 148.	4.5	35
13	Visible Spectroscopy from the Mission Accessible Near-Earth Object Survey (MANOS): Taxonomic Dependence on Asteroid Size. <i>Astronomical Journal</i> , 2019, 158, 196.	4.7	32
14	Six Years of Sustained Activity in (6478) Gault. <i>Astrophysical Journal Letters</i> , 2019, 877, L12.	8.3	31
15	PHYSICAL PROPERTIES OF NEAR-EARTH ASTEROID 2011 MD. <i>Astrophysical Journal Letters</i> , 2014, 789, L22.	8.3	28
16	Asteroid spinâ€™axis longitudes from the Lowell Observatory database. <i>Meteoritics and Planetary Science</i> , 2014, 49, 95-102.	1.6	25
17	The Size Distribution of Near-Earth Objects Larger Than 10 m. <i>Astronomical Journal</i> , 2017, 154, 170.	4.7	25
18	Constraints on the Density and Internal Strength of 1I/â€™Oumuamua. <i>Astrophysical Journal Letters</i> , 2018, 857, L1.	8.3	22

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19	ExploreNEOs. II. THE ACCURACY OF THE WARM SPITZER NEAR-EARTH OBJECT SURVEY. <i>Astronomical Journal</i> , 2011, 141, 75.	4.7	21
20	NEOSURVEY 1: INITIAL RESULTS FROM THE WARM SPITZER EXPLORATION SCIENCE SURVEY OF NEAR-EARTH OBJECT PROPERTIES. <i>Astronomical Journal</i> , 2016, 152, 172.	4.7	20
21	Cometary Activity Discovered on a Distant Centaur: A Nonaqueous Sublimation Mechanism. <i>Astrophysical Journal Letters</i> , 2020, 892, L38.	8.3	20
22	FIRST RESULTS FROM THE RAPID-RESPONSE SPECTROPHOTOMETRIC CHARACTERIZATION OF NEAR-EARTH OBJECTS USING UKIRT. <i>Astronomical Journal</i> , 2016, 151, 98.	4.7	19
23	Characterization of Near-Earth Asteroids Using KMTNET-SAAO. <i>Astronomical Journal</i> , 2017, 154, 162.	4.7	18
24	Investigating Taxonomic Diversity within Asteroid Families through ATLAS Dual-band Photometry. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 13.	7.7	15
25	Taxonomy and Light-curve Data of 1000 Serendipitously Observed Main-belt Asteroids. <i>Astrophysical Journal, Supplement Series</i> , 2018, 237, 19.	7.7	14
26	EXPLORENEOs. VIII. DORMANT SHORT-PERIOD COMETS IN THE NEAR-EARTH ASTEROID POPULATION. <i>Astronomical Journal</i> , 2015, 150, 106.	4.7	12
27	An Investigation of the Ranges of Validity of Asteroid Thermal Models for Near-Earth Asteroid Observations. <i>Astronomical Journal</i> , 2018, 155, 74.	4.7	12
28	Constraining the Shape Distribution of Near-Earth Objects from Partial Light Curves. <i>Astronomical Journal</i> , 2019, 157, 164.	4.7	12
29	A Taxonomic Study of Asteroid Families from KMTNET-SAAO Multiband Photometry. <i>Astrophysical Journal, Supplement Series</i> , 2019, 242, 15.	7.7	11
30	The Mission Accessible Near-Earth Objects Survey: Four Years of Photometry. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 4.	7.7	10
31	The Main Belt Asteroid Shape Distribution from Gaia Data Release 2. <i>Astronomical Journal</i> , 2018, 156, 139.	4.7	10
32	Spitzer's Solar System studies of comets, centaurs and Kuiper belt objects. <i>Nature Astronomy</i> , 2020, 4, 930-939.	10.1	9
33	Discovery of superslow rotating asteroids with ATLAS and ZTF photometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 3872-3881.	4.4	9
34	Recurrent Cometary Activity in Near-Earth Object (3552) Don Quixote. <i>Planetary Science Journal</i> , 2020, 1, 12.	3.6	9
35	The Surface Age of Sputnik Planum, Pluto, Must Be Less than 10 Million Years. <i>PLoS ONE</i> , 2016, 11, e0147386.	2.5	8
36	Asteroid Photometry from the Transiting Exoplanet Survey Satellite: A Pilot Study. <i>Astrophysical Journal, Supplement Series</i> , 2019, 245, 29.	7.7	7

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37	Spitzer's Solar System studies of asteroids, planets and the zodiacal cloud. <i>Nature Astronomy</i> , 2020, 4, 940-946.	10.1	7
38	Systematic Characterization of and Search for Activity in Potentially Active Asteroids. <i>Planetary Science Journal</i> , 2020, 1, 10.	3.6	7
39	Extreme Asteroids in the Pan-STARRS 1 Survey. <i>Astronomical Journal</i> , 2018, 156, 282.	4.7	6
40	Comparison of the Physical Properties of the L4 and L5 Trojan Asteroids from ATLAS Data. <i>Planetary Science Journal</i> , 2021, 2, 6.	3.6	6
41	Space Weathering within C-complex Main Belt Asteroid Families. <i>Astronomical Journal</i> , 2021, 161, 99.	4.7	6
42	A Software Roadmap for Solar System Science with the Large Synoptic Survey Telescope. <i>Research Notes of the AAS</i> , 2019, 3, 51.	0.7	6
43	Infrared Light Curves of Near-Earth Objects. <i>Astrophysical Journal, Supplement Series</i> , 2018, 238, 22.	7.7	4
44	On the Detectability of Planet X with LSST. <i>Astronomical Journal</i> , 2018, 155, 243.	4.7	4
45	First Results from the Rapid-response Spectrophotometric Characterization of Near-Earth Objects Using RATIR. <i>Astronomical Journal</i> , 2019, 157, 190.	4.7	4
46	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.	1.7	4
47	Spitzer Albedos of Near-Earth Objects. <i>Astronomical Journal</i> , 2019, 158, 67.	4.7	3
48	The Sizes and Albedos of Centaurs 2014 YY ₄₉ and 2013 NL ₂₄ from Stellar Occultation Measurements by RECON. <i>Planetary Science Journal</i> , 2021, 2, 22.	3.6	3
49	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.	0.7	2
50	GPU-enabled searches for periodic signals of unknown shape. <i>Astronomy and Computing</i> , 2022, 38, 100511.	1.7	2
51	THE INCLINATIONS OF FAINT TRANS-NEPTUNIAN OBJECTS. <i>Astrophysical Journal Letters</i> , 2010, 724, L22-L24.	8.3	1
52	Trajectory and physical properties of near-Earth asteroid 2009 BD. <i>Proceedings of the International Astronomical Union</i> , 2014, 9, 142-145.	0.0	1
53	Distinguishing multicellular life on exoplanets by testing Earth as an exoplanet. <i>International Journal of Astrobiology</i> , 2020, 19, 492-499.	1.6	1
54	Asteroid Lightcurves and Detection, Shape, and Size Biases in Large-scale Surveys. <i>Research Notes of the AAS</i> , 2021, 5, 111.	0.7	1