# David E Trilling

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9374291/publications.pdf

Version: 2024-02-01

| 54 | 1,174 | 361413 | 414414 |
|---|---|---|---|
| papers | citations | 20 h-index | 32 g-index |

| 54 | 54 | 54 | 1133 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | GPU-enabled searches for periodic signals of unknown shape. Astronomy and Computing, 2022, 38, 100511. | 1.7 | 2 |
| 2 | Optimization of the Observing Cadence for the Rubin Observatory Legacy Survey of Space and Time: A Pioneering Process of Community-focused Experimental Design. Astrophysical Journal, Supplement Series, 2022, 258, 1. | 7.7 | 40 |
| 3 | Comparison of the Physical Properties of the L4 and L5 Trojan Asteroids from ATLAS Data. Planetary Science Journal, 2021, 2, 6. | 3.6 | 6 |
| 4 | The Sizes and Albedos of Centaurs 2014 YY<sub>49</sub> and 2013 NL<sub>24</sub> from Stellar Occultation Measurements by RECON. Planetary Science Journal, 2021, 2, 22. | 3.6 | 3 |
| 5 | Space Weathering within C-complex Main Belt Asteroid Families. Astronomical Journal, 2021, 161, 99. | 4.7 | 6 |
| 6 | Asteroid Lightcurves and Detection, Shape, and Size Biases in Large-scale Surveys. Research Notes of the AAS, 2021, 5, 111. | 0.7 | 1 |
| 7 | 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. Research Notes of the AAS, 2021, 5, 143. | 0.7 | 2 |
| 8 | Discovery of superslow rotating asteroids with ATLAS and ZTF photometry. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3872-3881. | 4.4 | 9 |
| 9 | Fast period searches using the Lombâ€“Scargle algorithm on Graphics Processing Units for large datasets and real-time applications. Astronomy and Computing, 2021, 36, 100472. | 1.7 | 4 |
| 10 | Spitzerâ€™s Solar System studies of comets, centaurs and Kuiper belt objects. Nature Astronomy, 2020, 4, 930-939. | 10.1 | 9 |
| 11 | Spitzerâ€™s Solar System studies of asteroids, planets and the zodiacal cloud. Nature Astronomy, 2020, 4, 940-946. | 10.1 | 7 |
| 12 | Distinguishing multicellular life on exoplanets by testing Earth as an exoplanet. International Journal of Astrobiology, 2020, 19, 492-499. | 1.6 | 1 |
| 13 | Cometary Activity Discovered on a Distant Centaur: A Nonaqueous Sublimation Mechanism. Astrophysical Journal Letters, 2020, 892, L38. | 8.3 | 20 |
| 14 | Investigating Taxonomic Diversity within Asteroid Families through ATLAS Dual-band Photometry. Astrophysical Journal, Supplement Series, 2020, 247, 13. | 7.7 | 15 |
| 15 | The geology and geophysics of Kuiper Belt object (486958) Arrokoth. Science, 2020, 367, . | 12.6 | 76 |
| 16 | Systematic Characterization of and Search for Activity in Potentially Active Asteroids. Planetary Science Journal, 2020, 1, 10. | 3.6 | 7 |
| 17 | Recurrent Cometary Activity in Near-Earth Object (3552) Don Quixote. Planetary Science Journal, 2020, 1, 12. | 3.6 | 9 |
| 18 | A Taxonomic Study of Asteroid Families from KMTNET-SAAO Multiband Photometry. Astrophysical Journal, Supplement Series, 2019, 242, 15. | 7.7 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Spitzer Albedos of Near-Earth Objects. Astronomical Journal, 2019, 158, 67. | 4.7 | 3 |
| 20 | Constraining the Shape Distribution of Near-Earth Objects from Partial Light Curves. Astronomical Journal, 2019, 157, 164. | 4.7 | 12 |
| 21 | Six Years of Sustained Activity in (6478) Gault. Astrophysical Journal Letters, 2019, 877, L12. | 8.3 | 31 |
| 22 | First Results from the Rapid-response Spectrophotometric Characterization of Near-Earth Objects Using RATIR. Astronomical Journal, 2019, 157, 190. | 4.7 | 4 |
| 23 | Asteroid Photometry from the Transiting Exoplanet Survey Satellite: A Pilot Study. Astrophysical Journal, Supplement Series, 2019, 245, 29. | 7.7 | 7 |
| 24 | Visible Spectroscopy from the Mission Accessible Near-Earth Object Survey (MANOS): Taxonomic Dependence on Asteroid Size. Astronomical Journal, 2019, 158, 196. | 4.7 | 32 |
| 25 | A Software Roadmap for Solar System Science with the Large Synoptic Survey Telescope. Research Notes of the AAS, 2019, 3, 51. | 0.7 | 6 |
| 26 | Constraints on the Density and Internal Strength of 1I/â€™Oumuamua. Astrophysical Journal Letters, 2018, 857, L1. | 8.3 | 22 |
| 27 | An Investigation of the Ranges of Validity of Asteroid Thermal Models for Near-Earth Asteroid Observations. Astronomical Journal, 2018, 155, 74. | 4.7 | 12 |
| 28 | Spitzer Observations of Interstellar Object 1I/â€˜Oumuamua. Astronomical Journal, 2018, 156, 261. | 4.7 | 80 |
| 29 | The Mission Accessible Near-Earth Objects Survey: Four Years of Photometry. Astrophysical Journal, Supplement Series, 2018, 239, 4. | 7.7 | 10 |
| 30 | Extreme Asteroids in the Pan-STARRS 1 Survey. Astronomical Journal, 2018, 156, 282. | 4.7 | 6 |
| 31 | The Main Belt Asteroid Shape Distribution from Gaia Data Release 2. Astronomical Journal, 2018, 156, 139. | 4.7 | 10 |
| 32 | Infrared Light Curves of Near-Earth Objects. Astrophysical Journal, Supplement Series, 2018, 238, 22. | 7.7 | 4 |
| 33 | On the Detectability of Planet X with LSST. Astronomical Journal, 2018, 155, 243. | 4.7 | 4 |
| 34 | Taxonomy and Light-curve Data of 1000 Serendipitously Observed Main-belt Asteroids. Astrophysical Journal, Supplement Series, 2018, 237, 19. | 7.7 | 14 |
| 35 | The Size Distribution of Near-Earth Objects Larger Than 10 m. Astronomical Journal, 2017, 154, 170. | 4.7 | 25 |
| 36 | Characterization of Near-Earth Asteroids Using KMTNET-SAAO. Astronomical Journal, 2017, 154, 162. | 4.7 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Implications for Planetary System Formation from Interstellar Object 1I/2017 U1 (â€˜Oumuamua). Astrophysical Journal Letters, 2017, 850, L38. | 8.3 | 73 |
| 38 | The Surface Age of Sputnik Planum, Pluto, Must Be Less than 10 Million Years. PLoS ONE, 2016, 11, e0147386. | 2.5 | 8 |
| 39 | NEOSURVEY 1: INITIAL RESULTS FROM THE WARM SPITZER EXPLORATION SCIENCE SURVEY OF NEAR-EARTH OBJECT PROPERTIES. Astronomical Journal, 2016, 152, 172. | 4.7 | 20 |
| 40 | FIRST RESULTS FROM THE RAPID-RESPONSE SPECTROPHOTOMETRIC CHARACTERIZATION OF NEAR-EARTH OBJECTS USING UKIRT. Astronomical Journal, 2016, 151, 98. | 4.7 | 19 |
| 41 | EXPLORENEOs. VIII. DORMANT SHORT-PERIOD COMETS IN THE NEAR-EARTH ASTEROID POPULATION. Astronomical Journal, 2015, 150, 106. | 4.7 | 12 |
| 42 | Asteroid spinâ€axis longitudes from the Lowell Observatory database. Meteoritics and Planetary Science, 2014, 49, 95-102. | 1.6 | 25 |
| 43 | PHYSICAL PROPERTIES OF NEAR-EARTH ASTEROID 2011 MD. Astrophysical Journal Letters, 2014, 789, L22. | 8.3 | 28 |
| 44 | THE DISCOVERY OF COMETARY ACTIVITY IN NEAR-EARTH ASTEROID (3552) DON QUIXOTE. Astrophysical Journal, 2014, 781, 25. | 4.5 | 68 |
| 45 | CONSTRAINING THE PHYSICAL PROPERTIES OF NEAR-EARTH OBJECT 2009 BD. Astrophysical Journal, 2014, 786, 148. | 4.5 | 35 |
| 46 | Trajectory and physical properties of near-Earth asteroid 2009 BD. Proceedings of the International Astronomical Union, 2014, 9, 142-145. | 0.0 | 1 |
| 47 | ExploreNEOs. II. THE ACCURACY OF THE WARMSPITZERNEAR-EARTH OBJECT SURVEY. Astronomical Journal, 2011, 141, 75. | 4.7 | 21 |
| 48 | ExploreNEOs. III. PHYSICAL CHARACTERIZATION OF 65 POTENTIAL SPACECRAFT TARGET ASTEROIDS. Astronomical Journal, 2011, 141, 109. | 4.7 | 57 |
| 49 | ExploreNEOs. V. AVERAGE ALBEDO BY TAXONOMIC COMPLEX IN THE NEAR-EARTH ASTEROID POPULATION. Astronomical Journal, 2011, 142, 85. | 4.7 | 69 |
| 50 | THE INCLINATIONS OF FAINT TRANS-NEPTUNIAN OBJECTS. Astrophysical Journal Letters, 2010, 724, L22-L24. | 8.3 | 1 |
| 51 | EXPLORENEOs. I. DESCRIPTION AND FIRST RESULTS FROM THE WARMSPITZERNEAR-EARTH OBJECT SURVEY. Astronomical Journal, 2010, 140, 770-784. | 4.7 | 68 |
| 52 | TNOs are Cool: A Survey of the Transneptunian Region. Earth, Moon and Planets, 2009, 105, 209-219. | 0.6 | 55 |
| 53 | Composition of KBO (50000) Quaoar. Astronomy and Astrophysics, 2009, 501, 349-357. | 5.1 | 49 |
| 54 | Ices on (90377) Sedna: confirmation and compositional constraints. Astronomy and Astrophysics, 2007, 466, 395-398. | 5.1 | 37 |