# David M Kipping

List of Publications by Year
in descending order



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|---|---|---|---|
| 123 papers | 6,893 citations | 71102 41 h-index | 69250 77 g-index |
| 129 all docs | 129 docs citations | 129 times ranked | 3997 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | An exomoon survey of 70 cool giant exoplanets and the new candidate Kepler-1708 b-i. Nature Astronomy, 2022, 6, 367-380. | 10.1 | 32 |
| 2 | The number of transits per epoch for transiting misaligned circumbinary planets. Monthly Notices of the Royal Astronomical Society, 2022, 513, 5162-5173. | 4.4 | 1 |
| 3 | Mathematical encoding within multiresonant planetary systems as SETI beacons. Monthly Notices of the Royal Astronomical Society, 2022, 513, 4945-4950. | 4.4 | 3 |
| 4 | Identification and Mitigation of a Vibrational Telescope Systematic with Application to Spitzer. Planetary Science Journal, 2021, 2, 9. | 3.6 | 5 |
| 5 | Validation of HD 183579b Using Archival Radial Velocities: A Warm Neptune Orbiting a Bright Solar Analog. Astrophysical Journal Letters, 2021, 909, L6. | 8.3 | 5 |
| 6 | A Stationary Drake Equation Distribution as a Balance of Birth-death Processes. Research Notes of the AAS, 2021, 5, 44. | 0.7 | 4 |
| 7 | Black swans in astronomical data. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4054-4061. | 4.4 | 4 |
| 8 | Stellar Rotation in the K2 Sample: Evidence for Modified Spin-down. Astrophysical Journal, 2021, 913, 70. | 4.5 | 29 |
| 9 | On planetary systems as ordered sequences. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2224-2246. | 4.4 | 2 |
| 10 | Formulation and resolutions of the red sky paradox. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 2 |
| 11 | Transit origami: a method to coherently fold exomoon transits in time series photometry. Monthly Notices of the Royal Astronomical Society, 2021, 507, 4120-4131. | 4.4 | 8 |
| 12 | Identifying potential exomoon signals with convolutional neural networks. Monthly Notices of the Royal Astronomical Society, 2021, 508, 2620-2633. | 4.4 | 2 |
| 13 | 8 in 10 Stars in the Milky Way Bulge experience stellar encounters within 1000â€‰AU in a gigayear. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2105-2111. | 4.4 | 9 |
| 14 | Hundreds of new periodic signals detected in the first year of TESS with the weirddetector. Monthly Notices of the Royal Astronomical Society, 2020, 499, 4011-4023. | 4.4 | 2 |
| 15 | A Bayesian Approach to the Simulation Argument. Universe, 2020, 6, 109. | 2.5 | 3 |
| 16 | Contact inequality: first contact will likely be with an older civilization. International Journal of Astrobiology, 2020, 19, 430-437. | 1.6 | 14 |
| 17 | An objective Bayesian analysis of lifeâ€™s early start and our late arrival. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11995-12003. | 7.1 | 20 |
| 18 | A planet within the debris disk around the pre-main-sequence star AU Microscopii. Nature, 2020, 582, 497-500. | 27.8 | 145 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Loose Ends for the Exomoon Candidate Host Kepler-1625b. Astronomical Journal, 2020, 159, 142. | 4.7 | 20 |
| 20 | Detection of the phase curve and occultation of WASP-100b with TESS. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4077-4089. | 4.4 | 15 |
| 21 | The exomoon corridor: Half of all exomoons exhibit TTV frequencies within a narrow window due to aliasing. Monthly Notices of the Royal Astronomical Society, 2020, 500, 1851-1857. | 4.4 | 16 |
| 22 | An Independent Analysis of the Six Recently Claimed Exomoon Candidates. Astrophysical Journal Letters, 2020, 900, L44. | 8.3 | 15 |
| 23 | Detection of the Occultation of 55 Cancri e with TESS. Research Notes of the AAS, 2020, 4, 170. | 0.7 | 2 |
| 24 | On the detectability of transiting planets orbiting white dwarfs using LSST. Monthly Notices of the Royal Astronomical Society, 2019, 488, 1695-1703. | 4.4 | 19 |
| 25 | The â€œTerrascopeâ€: On the Possibility of Using the Earth as an Atmospheric Lens. Publications of the Astronomical Society of the Pacific, 2019, 131, 114503. | 3.1 | 2 |
| 26 | Not gone with the wind: Planet occurrence is independent of stellar galactocentric velocity. Monthly Notices of the Royal Astronomical Society, 2019, 489, 2505-2510. | 4.4 | 9 |
| 27 | The multiplicity distribution of Keplerâ€™s exoplanets. Monthly Notices of the Royal Astronomical Society, 2019, 489, 3162-3173. | 4.4 | 31 |
| 28 | Proxima Centauri b is not a transiting exoplanet. Monthly Notices of the Royal Astronomical Society, 2019, 487, 268-274. | 4.4 | 21 |
| 29 | A resonant pair of warm giant planets revealed by TESS. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4980-4986. | 4.4 | 27 |
| 30 | Shadow Imaging of Transiting Objects. Astronomical Journal, 2019, 157, 42. | 4.7 | 11 |
| 31 | The weird detector: flagging periodic, coherent signals of arbitrary shape in time-series photometry. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5498-5510. | 4.4 | 10 |
| 32 | A Second Terrestrial Planet Orbiting the Nearby M Dwarf LHS 1140. Astronomical Journal, 2019, 157, 32. | 4.7 | 83 |
| 33 | Transiting Quasites as a Possible Technosignature. Research Notes of the AAS, 2019, 3, 91. | 0.7 | 4 |
| 34 | Forecasted masses for 7000 Kepler Objects of Interest. Monthly Notices of the Royal Astronomical Society, 2018, 473, 2753-2759. | 4.4 | 32 |
| 35 | A hardcore model for constraining an exoplanet's core size. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2613-2620. | 4.4 | 13 |
| 36 | Jupiter Analogs Orbit Stars with an Average Metallicity Close to That of the Sun. Astrophysical Journal, 2018, 856, 37. | 4.5 | 44 |

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|---|---|---|---|
| 37 | Finding mountains with molehills: the detectability of exotopography. Monthly Notices of the Royal Astronomical Society, 2018, 475, 4978-4985. | 4.4 | 31 |
| 38 | Forecasting the detectability of known radial velocity planets with the upcoming CHEOPS mission. Monthly Notices of the Royal Astronomical Society, 2018, 475, 3090-3097. | 4.4 | 23 |
| 39 | A machine learns to predict the stability of circumbinary planets. Monthly Notices of the Royal Astronomical Society, 2018, 476, 5692-5697. | 4.4 | 27 |
| 40 | HEK. VI. On the Dearth of Galilean Analogs in Kepler, and the Exomoon Candidate Kepler-1625b I. Astronomical Journal, 2018, 155, 36. | 4.7 | 103 |
| 41 | Do planets remember how they formed?. Monthly Notices of the Royal Astronomical Society, 2018, 473, 784-795. | 4.4 | 18 |
| 42 | Evidence for a large exomoon orbiting Kepler-1625b. Science Advances, 2018, 4, eaav1784. | 10.3 | 125 |
| 43 | On the Rate of Abiogenesis from a Bayesian Informatics Perspective. Astrobiology, 2018, 18, 1574-1584. | 3.0 | 15 |
| 44 | Keplerâ€™s dark worlds: a low albedo for an ensemble of Neptunian and Terran exoplanets. Monthly Notices of the Royal Astronomical Society, 2018, 478, 3025-3041. | 4.4 | 15 |
| 45 | TRAPPIST-1e Has a Large Iron Core. Research Notes of the AAS, 2018, 2, 31. | 0.7 | 10 |
| 46 | Predicting The Orbit of TRAPPIST-1i. Research Notes of the AAS, 2018, 2, 136. | 0.7 | 5 |
| 47 | The Orbital Period Prior for Single Transits. Research Notes of the AAS, 2018, 2, 223. | 0.7 | 13 |
| 48 | Over 2000 Kepler Phase Curves from Phasma. Research Notes of the AAS, 2018, 2, 14. | 0.7 | 1 |
| 49 | A Periodogram of Every Kepler Target and a Common Artifact at â^¼480 minutes. Research Notes of the AAS, 2018, 2, 15. | 0.7 | 0 |
| 50 | PROBABILISTIC FORECASTING OF THE MASSES AND RADII OF OTHER WORLDS. Astrophysical Journal, 2017, 834, 17. | 4.5 | 474 |
| 51 | No Conclusive Evidence for Transits of Proxima b in MOST Photometry. Astronomical Journal, 2017, 153, 93. | 4.7 | 34 |
| 52 | Masses of Kepler-46b, c from Transit Timing Variations. Astronomical Journal, 2017, 153, 198. | 4.7 | 32 |
| 53 | Transit clairvoyance: enhancingTESSfollow-up using artificial neural networks. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3495-3505. | 4.4 | 17 |
| 54 | Know the Planet, Know the Star: Precise Stellar Densities from Kepler Transit Light Curves. Astronomical Journal, 2017, 154, 228. | 4.7 | 44 |

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|---|---|---|---|
| 55 | Relativistic Light Sails. Astronomical Journal, 2017, 153, 277. | 4.7 | 13 |
| 56 | A cloaking device for transiting planets. Monthly Notices of the Royal Astronomical Society, 2016, 459, 1233-1241. | 4.4 | 35 |
| 57 | REVISED MASSES AND DENSITIES OF THE PLANETS AROUND KEPLER-10*. Astrophysical Journal, 2016, 819, 83. | 4.5 | 74 |
| 58 | A TRANSITING JUPITER ANALOG. Astrophysical Journal, 2016, 820, 112. | 4.5 | 40 |
| 59 | PROBABILISTIC INFERENCE OF BASIC STELLAR PARAMETERS: APPLICATION TO FLICKERING STARS*. Astrophysical Journal Letters, 2016, 823, L9. | 8.3 | 1 |
| 60 | Observational biases for transiting planets. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1323-1331. | 4.4 | 33 |
| 61 | MOST OBSERVATIONS OF OUR NEAREST NEIGHBOR: FLARES ON PROXIMA CENTAURI. Astrophysical Journal Letters, 2016, 829, L31. | 8.3 | 93 |
| 62 | Efficient, uninformative sampling of limb-darkening coefficients for a three-parameter law. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1680-1690. | 4.4 | 12 |
| 63 | THE HUNT FOR EXOMOONS WITHKEPLER(HEK). V. A SURVEY OF 41 PLANETARY CANDIDATES FOR EXOMOONS. Astrophysical Journal, 2015, 813, 14. | 4.5 | 80 |
| 64 | The EChO science case. Experimental Astronomy, 2015, 40, 329-391. | 3.7 | 31 |
| 65 | THE POSSIBLE MOON OF KEPLER-90g IS A FALSE POSITIVE. Astrophysical Journal Letters, 2015, 799, L14. | 8.3 | 19 |
| 66 | VALIDATION OF 12 SMALLKEPLERTRANSITING PLANETS IN THE HABITABLE ZONE. Astrophysical Journal, 2015, 800, 99. | 4.5 | 122 |
| 67 | A NOVEL METHOD FOR IDENTIFYING EXOPLANETARY RINGS. Astrophysical Journal Letters, 2015, 803, L14. | 8.3 | 61 |
| 68 | KEPLER-432: A RED GIANT INTERACTING WITH ONE OF ITS TWO LONG-PERIOD GIANT PLANETS. Astrophysical Journal, 2015, 803, 49. | 4.5 | 70 |
| 69 | A disintegrating minor planet transiting a white dwarf. Nature, 2015, 526, 546-549. | 27.8 | 367 |
| 70 | Characterizing distant worlds with asterodensity profiling. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2164-2184. | 4.4 | 71 |
| 71 | DISCOVERY OF A TRANSITING PLANET NEAR THE SNOW-LINE. Astrophysical Journal, 2014, 795, 25. | 4.5 | 27 |
| 72 | FLICKER AS A TOOL FOR CHARACTERIZING PLANETS THROUGH ASTERODENSITY PROFILING. Astrophysical Journal Letters, 2014, 785, L32. | 8.3 | 15 |

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|---|---|---|---|
| 73 | THE HUNT FOR EXOMOONS WITHKEPLER(HEK). IV. A SEARCH FOR MOONS AROUND EIGHT M DWARFS. Astrophysical Journal, 2014, 784, 28. | 4.5 | 79 |
| 74 | A HIGH FALSE POSITIVE RATE FORKEPLERPLANETARY CANDIDATES OF GIANT STARS USING ASTERODENSITY PROFILING. Astrophysical Journal, 2014, 788, 148. | 4.5 | 71 |
| 75 | PHOTO-DYNAMICAL ANALYSIS OF THREE KEPLER OBJECTS OF INTEREST WITH SIGNIFICANT TRANSIT TIMING VARIATIONS. Astrophysical Journal, 2014, 790, 31. | 4.5 | 39 |
| 76 | spotrod: a semi-analytic model for transits of spotted stars. Monthly Notices of the Royal Astronomical Society, 2014, 442, 3686-3699. | 4.4 | 54 |
| 77 | Bayesian priors for the eccentricity of transiting planets. Monthly Notices of the Royal Astronomical Society, 2014, 444, 2263-2269. | 4.4 | 46 |
| 78 | STELLAR ROTATION-PLANETARY ORBIT PERIOD COMMENSURABILITY IN THE HAT-P-11 SYSTEM. Astrophysical Journal, 2014, 788, 1. | 4.5 | 61 |
| 79 | Formation, Habitability, and Detection of Extrasolar Moons. Astrobiology, 2014, 14, 798-835. | 3.0 | 120 |
| 80 | THE HUNT FOR EXOMOONS WITH KEPLER (HEK). II. ANALYSIS OF SEVEN VIABLE SATELLITE-HOSTING PLANET CANDIDATES. Astrophysical Journal, 2013, 770, 101. | 4.5 | 79 |
| 81 | A simple, quantitative method to infer the minimum atmospheric height of small exoplanets. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1883-1888. | 4.4 | 12 |
| 82 | Parametrizing the exoplanet eccentricity distribution with the Beta distribution. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 434, L51-L55. | 3.3 | 220 |
| 83 | THE HUNT FOR EXOMOONS WITH KEPLER (HEK). III. THE FIRST SEARCH FOR AN EXOMOON AROUND A HABITABLE-ZONE PLANET. Astrophysical Journal, 2013, 777, 134. | 4.5 | 64 |
| 84 | KOI-142, THE KING OF TRANSIT VARIATIONS, IS A PAIR OF PLANETS NEAR THE 2:1 RESONANCE. Astrophysical Journal, 2013, 777, 3. | 4.5 | 135 |
| 85 | Efficient, uninformative sampling of limb darkening coefficients for two-parameter laws. Monthly Notices of the Royal Astronomical Society, 2013, 435, 2152-2160. | 4.4 | 549 |
| 86 | Dynamical effects on the habitable zone for Earth-like exomoons. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2994-3004. | 4.4 | 60 |
| 87 | THE HUNT FOR EXOMOONS WITHKEPLER(HEK). I. DESCRIPTION OF A NEW OBSERVATIONAL PROJECT. Astrophysical Journal, 2012, 750, 115. | 4.5 | 146 |
| 88 | CfA4: LIGHT CURVES FOR 94 TYPE Ia SUPERNOVAE. Astrophysical Journal, Supplement Series, 2012, 200, 12. | 7.7 | 153 |
| 89 | EChO. Experimental Astronomy, 2012, 34, 311-353. | 3.7 | 98 |
| 90 | An analytic model for rotational modulations in the photometry of spotted stars. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2487-2511. | 4.4 | 40 |

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|---|---|---|---|
| 91 | The Detection and Characterization of a Nontransiting Planet by Transit Timing Variations. Science, 2012, 336, 1133-1136. | 12.6 | 150 |
| 92 | A novel method to photometrically constrain orbital eccentricities: Multibody Asterodensity Profiling. Monthly Notices of the Royal Astronomical Society, 2012, 421, 1166-1188. | 4.4 | 39 |
| 93 | HAT-P-26b: A LOW-DENSITY NEPTUNE-MASS PLANET TRANSITING A K STAR. Astrophysical Journal, 2011, 728, 138. | 4.5 | 109 |
| 94 | METHANE IN THE ATMOSPHERE OF THE TRANSITING HOT NEPTUNE GJ436B?. Astrophysical Journal, 2011, 731, 16. | 4.5 | 110 |
| 95 | HAT-P-20bâ€“HAT-P-23b: FOUR MASSIVE TRANSITING EXTRASOLAR PLANETS. Astrophysical Journal, 2011, 742, 116. | 4.5 | 117 |
| 96 | ANALYSIS OFKEPLER'S SHORT-CADENCE PHOTOMETRY FOR TrES-2b. Astrophysical Journal, 2011, 733, 36. | 4.5 | 60 |
| 97 | luna: an algorithm for generating dynamic planet-moon transits. Monthly Notices of the Royal Astronomical Society, 2011, , no-no. | 4.4 | 40 |
| 98 | Detection of visible light from the darkest world. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 417, L88-L92. | 3.3 | 61 |
| 99 | HAT-P-31b,c: A TRANSITING, ECCENTRIC, HOT JUPITER AND A LONG-PERIOD, MASSIVE THIRD BODY. Astronomical Journal, 2011, 142, 95. | 4.7 | 26 |
| 100 | AN INDEPENDENT ANALYSIS OF KEPLER-4b THROUGH KEPLER-8b. Astrophysical Journal, 2011, 730, 50. | 4.5 | 71 |
| 101 | Transit Timing Effects Due to an Exomoon. , 2011, , 127-164. | | 2 |
| 102 | Transit Distortions. , 2011, , 93-126. | | 0 |
| 103 | Timing the Transit. , 2011, , 57-91. | | 0 |
| 104 | Detectability of Habitable Exomoons with $$oldsymbol {it Kepler}$$ -Class Photometry. , 2011, , 165-182. | | 0 |
| 105 | The Transiting Planet. , 2011, , 37-56. | | 0 |
| 106 | The science of EChO. Proceedings of the International Astronomical Union, 2010, 6, 359-370. | 0.0 | 5 |
| 107 | HAT-P-14b: A 2.2M<sub>J</sub>EXOPLANET TRANSITING A BRIGHT F STAR. Astrophysical Journal, 2010, 715, 458-467. | 4.5 | 67 |
| 108 | How to weigh a star using a moon. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 409, L119-L123. | 3.3 | 20 |

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| 109 | Binning is sinning: morphological light-curve distortions due to finite integration time. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1758-1769. | 4.4 | 256 |
| 110 | Water in the atmosphere of HD 209458b from 3.6-8 Î¼m IRAC photometric observations in primary transit. Monthly Notices of the Royal Astronomical Society, 2010, 409, 963-974. | 4.4 | 99 |
| 111 | Investigations of approximate expressions for the transit duration. Monthly Notices of the Royal Astronomical Society, 2010, 407, 301-313. | 4.4 | 91 |
| 112 | HAT-P-24b: AN INFLATED HOT JUPITER ON A 3.36 DAY PERIOD TRANSITING A HOT, METAL-POOR STAR. Astrophysical Journal, 2010, 725, 2017-2028. | 4.5 | 37 |
| 113 | Exploring extrasolar worlds: from gas giants to terrestrial habitable planets. Faraday Discussions, 2010, 147, 369. | 3.2 | 16 |
| 114 | Transit timing effects due to an exomoon. Monthly Notices of the Royal Astronomical Society, 2009, 392, 181-189. | 4.4 | 219 |
| 115 | Transit timing effects due to an exomoon - II. Monthly Notices of the Royal Astronomical Society, 2009, 396, 1797-1804. | 4.4 | 134 |
| 116 | On the detectability of habitable exomoons withKepler-class photometry. Monthly Notices of the Royal Astronomical Society, 2009, 400, 398-405. | 4.4 | 103 |
| 117 | Detection of a transit by the planetary companion of HD 80606. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 396, L16-L20. | 3.3 | 69 |
| 118 | The detectability of habitable exomoons. Proceedings of the International Astronomical Union, 2009, 5, 705-705. | 0.0 | 0 |
| 119 | Small angle neutron scattering at very high time resolution: Principle and simulations of â€˜TISANEâ€™. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1541-1546. | 2.1 | 17 |
| 120 | Transiting planets - light-curve analysis for eccentric orbits. Monthly Notices of the Royal Astronomical Society, 2008, 389, 1383-1390. | 4.4 | 67 |
| 121 | Eccentric Planets & Transit Time Variation. Proceedings of the International Astronomical Union, 2008, 4, 490-491. | 0.0 | 0 |
| 122 | Nightside pollution of exoplanet transit depths. Monthly Notices of the Royal Astronomical Society, 0, 407, 2589-2598. | 4.4 | 50 |
| 123 | Could the â€˜Wowâ€™ signal have originated from a stochastic repeating beacon?. Monthly Notices of the Royal Astronomical Society, 0, , . | 4.4 | 0 |