Jason H Steffen

List of Publications by Year
in descending order

79 papers	16,117 citations	47006 47 h-index	66911 78 g-index
79 all docs	79 docs citations	79 times ranked	5528 citing authors

#	Article	IF	Citations
1	Kepler Planet-Detection Mission: Introduction and First Results. Science, 2010, 327, 977-980.	12.6	2,848
2	PLANET OCCURRENCE WITHIN 0.25 AU OF SOLAR-TYPE STARS FROM KEPLER. Astrophysical Journal, Supplement Series, 2012, 201, 15.	7.7	871
3	CHARACTERISTICS OF PLANETARY CANDIDATES OBSERVED BYKEPLER. II. ANALYSIS OF THE FIRST FOUR MONTHS OF DATA. Astrophysical Journal, 2011, 736, 19.	4.5	859
4	PLANETARY CANDIDATES OBSERVED BY KEPLER . III. ANALYSIS OF THE FIRST 16 MONTHS OF DATA. Astrophysical Journal, Supplement Series, 2013, 204, 24.	7.7	823
5	Kepler-16: A Transiting Circumbinary Planet. Science, 2011, 333, 1602-1606.	12.6	608
6	ARCHITECTURE AND DYNAMICS OF KEPLER 'S CANDIDATE MULTIPLE TRANSITING PLANET SYSTEMS. Astrophysical Journal, Supplement Series, 2011, 197, 8.	7.7	593
7	A closely packed system of low-mass, low-density planets transiting Kepler-11. Nature, 2011, 470, 53-58.	27.8	553
8	ARCHITECTURE OFKEPLER'S MULTI-TRANSITING SYSTEMS. II. NEW INVESTIGATIONS WITH TWICE AS MANY CANDIDATES. Astrophysical Journal, 2014, 790, 146.	4.5	536
9	KEPLER'S FIRST ROCKY PLANET: KEPLER-10b. Astrophysical Journal, 2011, 729, 27.	4.5	473
10	VALIDATION OFKEPLER'S MULTIPLE PLANET CANDIDATES. III. LIGHT CURVE ANALYSIS AND ANNOUNCEMENT OF HUNDREDS OF NEW MULTI-PLANET SYSTEMS. Astrophysical Journal, 2014, 784, 45.	4.5	418
11	MASSES, RADII, AND ORBITS OF SMALL KEPLER PLANETS: THE TRANSITION FROM GASEOUS TO ROCKY PLANETS. Astrophysical Journal, Supplement Series, 2014, 210, 20.	7.7	418
12	Transiting circumbinary planets Kepler-34 b and Kepler-35 b. Nature, 2012, 481, 475-479.	27.8	385
13	Kepler Asteroseismology Program: Introduction and First Results. Publications of the Astronomical Society of the Pacific, 2010, 122, 131-143.	3.1	370
14	Kepler-9: A System of Multiple Planets Transiting a Sun-Like Star, Confirmed by Timing Variations. Science, 2010, 330, 51-54.	12.6	339
15	Kepler-36: A Pair of Planets with Neighboring Orbits and Dissimilar Densities. Science, 2012, 337, 556-559.	12.6	335
16	Planetary Candidates Observed by Kepler . VIII. A Fully Automated Catalog with Measured Completeness and Reliability Based on Data Release 25. Astrophysical Journal, Supplement Series, 2018, 235, 38.	7.7	316
17	CHARACTERISTICS OFKEPLERPLANETARY CANDIDATES BASED ON THE FIRST DATA SET. Astrophysical Journal, 2011, 728, 117.	4.5	313
18	THE CLIMATE OF HD 189733b FROM FOURTEEN TRANSITS AND ECLIPSES MEASURED BYSPITZER. Astrophysical Journal, 2010, 721, 1861-1877.	4.5	266

#	Article	IF	Citations
19	PLANETARY CANDIDATES OBSERVED BY KEPLER . VI. PLANET SAMPLE FROM Q1â€“Q16 (47 MONTHS). Astrophysical Journal, Supplement Series, 2015, 217, 31.	7.7	234
20	Kepler-22b: A 2.4 EARTH-RADIUS PLANET IN THE HABITABLE ZONE OF A SUN-LIKE STAR. Astrophysical Journal, 2012, 745, 120.	4.5	218
21	MODELINGKEPLERTRANSIT LIGHT CURVES AS FALSE POSITIVES: REJECTION OF BLEND SCENARIOS FOR KEPLER-9, AND VALIDATION OF KEPLER-9 d, A SUPER-EARTH-SIZE PLANET IN A MULTIPLE SYSTEM. Astrophysical Journal, 2011, 727, 24.	4.5	215
22	Kepler-62: A Five-Planet System with Planets of 1.4 and 1.6 Earth Radii in the Habitable Zone. Science, 2013, 340, 587-590.	12.6	213
23	KOI-126: A Triply Eclipsing Hierarchical Triple with Two Low-Mass Stars. Science, 2011, 331, 562-565.	12.6	203
24	TRANSIT TIMING OBSERVATIONS FROMKEPLER. IV. CONFIRMATION OF FOUR MULTIPLE-PLANET SYSTEMS BY SIMPLE PHYSICAL MODELS. Astrophysical Journal, 2012, 750, 114.	4.5	199
25	VALIDATION OFKEPLER'S MULTIPLE PLANET CANDIDATES. II. REFINED STATISTICAL FRAMEWORK AND DESCRIPTIONS OF SYSTEMS OF SPECIAL INTEREST. Astrophysical Journal, 2014, 784, 44.	4.5	182
26	Transit timing observations from Kepler â€“ VII. Confirmation of 27 planets in 13 multiplanet systems via transit timing variations and orbital stability. Monthly Notices of the Royal Astronomical Society, 2013, 428, 1077-1087.	4.4	174
27	Kepler constraints on planets near hot Jupiters. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7982-7987.	7.1	172
28	KEPLER-18b, c, AND d: A SYSTEM OF THREE PLANETS CONFIRMED BY TRANSIT TIMING VARIATIONS, LIGHT CURVE VALIDATION, WARM-SPITZER PHOTOMETRY, AND RADIAL VELOCITY MEASUREMENTS. Astrophysical Journal, Supplement Series, 2011, 197, 7.	7.7	171
29	A FIRST COMPARISON OF KEPLER PLANET CANDIDATES IN SINGLE AND MULTIPLE SYSTEMS. Astrophysical Journal Letters, 2011, 732, L24.	8.3	167
30	PLANETARY CANDIDATES OBSERVED BY KEPLER . V. PLANET SAMPLE FROM Q1â€“Q12 (36 MONTHS). Astrophysical Journal, Supplement Series, 2015, 217, 16.	7.7	166
31	TRANSIT TIMING OBSERVATIONS FROM KEPLER. IX. CATALOG OF THE FULL LONG-CADENCE DATA SET. Astrophysical Journal, Supplement Series, 2016, 225, 9.	7.7	158
32	Transit timing observations from Keplerâ€ƒ- III. Confirmation of four multiple planet systems by a Fourier-domain study of anticorrelated transit timing variations. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2342-2354.	4.4	151
33	TRANSIT TIMING OBSERVATIONS FROM KEPLER . VIII. CATALOG OF TRANSIT TIMING MEASUREMENTS OF THE FIRST TWELVE QUARTERS. Astrophysical Journal, Supplement Series, 2013, 208, 16.	7.7	147
34	THE KEPLER-19 SYSTEM: A TRANSITING 2.2R_{âŠ•}PLANET AND A SECOND PLANET DETECTED VIA TRANSIT TIMING VARIATIONS. Astrophysical Journal, 2011, 743, 200.	4.5	130
35	KEPLER 453 bâ€”THE 10thKEPLERTRANSITING CIRCUMBINARY PLANET. Astrophysical Journal, 2015, 809, 26.	4.5	130
36	A DYNAMICAL ANALYSIS OF THE KEPLER-80 SYSTEM OF FIVE TRANSITING PLANETS. Astronomical Journal, 2016, 152, 105.	4.7	115

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37	An analysis of the transit times of TrES-1b. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 364, L96-L100.	3.3	110
38	Optimal boarding method for airline passengers. Journal of Air Transport Management, 2008, 14, 146-150.	4.5	105
39	KEPLER-1647B: THE LARGEST AND LONGEST-PERIOD KEPLER TRANSITING CIRCUMBINARY PLANET. Astrophysical Journal, 2016, 827, 86.	4.5	101
40	TRANSIT TIMING OBSERVATIONS FROM KEPLER . I. STATISTICAL ANALYSIS OF THE FIRST FOUR MONTHS. Astrophysical Journal, Supplement Series, 2011, 197, 2.	7.7	98
41	The Occurrence of Rocky Habitable-zone Planets around Solar-like Stars from Kepler Data. Astronomical Journal, 2021, 161, 36.	4.7	96
42	TRANSIT TIMING OBSERVATIONS FROMKEPLER. II. CONFIRMATION OF TWO MULTIPLANET SYSTEMS VIA A NON-PARAMETRIC CORRELATION ANALYSIS. Astrophysical Journal, 2012, 750, 113.	4.5	94
43	FIVE KEPLER TARGET STARS THAT SHOW MULTIPLE TRANSITING EXOPLANET CANDIDATES. Astrophysical Journal, 2010, 725, 1226-1241.	4.5	91
44	The period ratio distribution of Kepler's candidate multiplanet systems. Monthly Notices of the Royal Astronomical Society, 2015, 448, 1956-1972.	4.4	91
45	Experimental test of airplane boarding methods. Journal of Air Transport Management, 2012, 18, 64-67.	4.5	82
46	FROM HOT JUPITERS TO SUPER-EARTHS VIA ROCHE LOBE OVERFLOW. Astrophysical Journal Letters, 2014, 793, L3.	8.3	76
47	TRANSIT TIMING OBSERVATIONS FROMKEPLER. V. TRANSIT TIMING VARIATION CANDIDATES IN THE FIRST SIXTEEN MONTHS FROM POLYNOMIAL MODELS. Astrophysical Journal, 2012, 756, 185.	4.5	75
48	Sensitivity bias in the massâ€“radius distribution from transit timing variations and radial velocity measurements. Monthly Notices of the Royal Astronomical Society, 2016, 457, 4384-4392.	4.4	66
49	TRANSIT TIMING OBSERVATIONS FROMKEPLER. VI. POTENTIALLY INTERESTING CANDIDATE SYSTEMS FROM FOURIER-BASED STATISTICAL TESTS. Astrophysical Journal, 2012, 756, 186.	4.5	62
50	A LACK OF SHORT-PERIOD MULTIPLANET SYSTEMS WITH CLOSE-PROXIMITY PAIRS AND THE CURIOUS CASE OF KEPLER-42. Astrophysical Journal Letters, 2013, 774, L12.	8.3	55
51	A Population of planetary systems characterized by short-period, Earth-sized planets. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12023-12028.	7.1	45
52	A statistical mechanics model for free-for-all airplane passenger boarding. American Journal of Physics, 2008, 76, 1114-1119.	0.7	40
53	Long-period Giant Companions to Three Compact, Multiplanet Systems. Astronomical Journal, 2019, 157, 145.	4.7	33
54	Outcomes of Grazing Impacts between Sub-Neptunes in Kepler Multis. Astrophysical Journal, 2018, 852, 41.	4.5	32

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55	Dynamics and collisional evolution of closely packed planetary systems. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4145-4162.	4.4	30
56	Dark matter and the habitability of planets. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 046-046.	5.4	28
57	Survival of non-coplanar, closely packed planetary systems after a close encounter. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2205-2212.	4.4	28
58	Dynamical instability and its implications for planetary system architecture. Monthly Notices of the Royal Astronomical Society, 2019, 484, 1538-1548.	4.4	28
59	DYNAMICAL CONSIDERATIONS FOR LIFE IN MULTI-HABITABLE PLANETARY SYSTEMS. Astrophysical Journal, 2016, 816, 97.	4.5	25
60	THE GammeV SUITE OF EXPERIMENTAL SEARCHES FOR AXION-LIKE PARTICLES. Modern Physics Letters A, 2009, 24, 2053-2068.	1.2	21
61	Systematic mischaracterization of exoplanetary system dynamical histories from a model degeneracy near mean-motion resonance. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2846-2852.	4.4	21
62	Giant planet effects on terrestrial planet formation and system architecture. Monthly Notices of the Royal Astronomical Society, 2019, 485, 541-549.	4.4	18
63	Kepler's missing planets. Monthly Notices of the Royal Astronomical Society, 2013, 433, 3246-3255.	4.4	15
64	Dust condensation in evolving discs and the composition of planetary building blocks. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2543-2553.	4.4	13
65	Designing dark energy afterglow experiments. Physical Review D, 2012, 86, .	4.7	12
66	Pressure-driven symmetry transitions in dense <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:math> ice. Physical Review B, 2022, 105, .	3.2	9
67	TTV-determined Masses for Warm Jupiters and Their Close Planetary Companions. Astronomical Journal, 2018, 156, 96.	4.7	8
68	Constraints on the angular distribution of satellite galaxies about spiral hosts. Monthly Notices of the Royal Astronomical Society, 2008, 387, 1199-1205.	4.4	6
69	MAGRATHEA: an open-source spherical symmetric planet interior structure code. Monthly Notices of the Royal Astronomical Society, 2022, 513, 5256-5269.	4.4	6
70	Survivability of moon systems around ejected gas giants. Monthly Notices of the Royal Astronomical Society, 2019, 489, 2323-2329.	4.4	5
71	Implications of an improved water equation of state for water-rich planets. Monthly Notices of the Royal Astronomical Society, 2021, 503, 2825-2832.	4.4	5
72	Maximum temperatures in evolving protoplanetary discs and composition of planetary building blocks. Monthly Notices of the Royal Astronomical Society, 2021, 503, 5254-5262.	4.4	4

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73	Stellar evolution and tidal dissipation in REBOUNDx. Monthly Notices of the Royal Astronomical Society, 2022, 510, 6001-6009.	4.4	4
74	Collisional fragmentation and bulk composition tracking in <scp>rebound</scp>. Monthly Notices of the Royal Astronomical Society, 2022, 511, 1848-1859.	4.4	4
75	Optimal determination of the equilibrium displacement of a damped harmonic oscillator in the presence of thermal noise. Review of Scientific Instruments, 2005, 76, 085106.	1.3	2
76	The discovery and legacy of Keplerâ€™s multi-transiting planetary systems. New Astronomy Reviews, 2018, 83, 49-60.	12.8	2
77	EXPLORING FIFTH FORCE INTERACTIONS WITH 18TH CENTURY TECHNOLOGY. International Journal of Modern Physics D, 2004, 13, 2249-2254.	2.1	1
78	Anomalous afterglow seen in a chameleon afterglow search. Physical Review D, 2012, 86, .	4.7	1
79	Optimal estimation of several linear parameters in the presence of Lorentzian thermal noise. Classical and Quantum Gravity, 2009, 26, 185009.	4.0	0