Shay Zucker

List of Publications by Year
in descending order

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121 papers	22,177 citations	46918 47 h-index	27345 106 g-index
125 all docs	125 docs citations	125 times ranked	12323 citing authors

#	Article	IF	Citations
1	Fluid-like representation of Fickian diffusion. Physics of Fluids, 2022, 34, 011701.	1.6	4
2	New periodograms separating orbital radial velocities and spectral shape variation. Astronomy and Astrophysics, 2022, 659, A189.	2.1	6
3	Exoplanets in the Galactic context: planet occurrence rates in the thin disc, thick disc, and stellar halo of Kepler stars. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3449-3459.	1.6	10
4	Shallow Transitsâ€"Deep Learning. II. Identify Individual Exoplanetary Transits in Red Noise using Deep Learning. Astronomical Journal, 2022, 163, 237.	1.9	0
5	The detection of transiting exoplanets by Gaia. Astronomy and Astrophysics, 2022, 663, A101.	2.1	9
6	A Transiting Warm Giant Planet around the Young Active Star TOI-201. Astronomical Journal, 2021, 161, 235.	1.9	20
7	Systematic search for long-term transit duration changes in Kepler transiting planets. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1293-1310.	1.6	7
8	Quantifying the similarity of planetary system architectures. Astronomy and Astrophysics, 2021, 651, A61.	2.1	6
9	Sparse Box-fitting Least Squares. Publications of the Astronomical Society of the Pacific, 2021, 133, 024502.	1.0	7
10	Public HARPS radial velocity database corrected for systematic errors. Astronomy and Astrophysics, 2020, 636, A74.	2.1	107
11	USuRPER: Unit-sphere representation periodogram for full spectra. Astronomy and Astrophysics, 2020, 642, A146.	2.1	8
12	Occurrence rates of small planets from HARPS. Astronomy and Astrophysics, 2020, 643, A106.	2.1	10
13	Small Planets in the Galactic Context: Host Star Kinematics, Iron, and Alpha-element Enhancement. Astronomical Journal, 2019, 158, 61.	1.9	13
14	Detection of periodicity based on independence tests â€" IV. Phase distance correlation periodogram for two-dimensional astrometry. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 484, L14-L18.	1.2	3
15	GaiaData Release 2. Astronomy and Astrophysics, 2019, 623, A110.	2.1	101
16	Prospects for detecting the astrometric signature of Barnardâ€™s Star b. Astronomy and Astrophysics, 2019, 623, A10.	2.1	4
17	Correcting HIRES/Keck radial velocities for small systematic errors. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 484, L8-L13.	1.2	69
18	Shallow Transitsâ€"Deep Learning. I. Feasibility Study of Deep Learning to Detect Periodic Transits of Exoplanets. Astronomical Journal, 2018, 155, 147.	1.9	57

#	Article	IF	Citations
19	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 618, A30.	2.1	117
20	A Quantitative Comparison of Exoplanet Catalogs. Geosciences (Switzerland), 2018, 8, 325.	1.0	8
21	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A11.	2.1	323
22	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A13.	2.1	78
23	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A14.	2.1	140
24	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A10.	2.1	638
25	Gaia Data Release 2. Astronomy and Astrophysics, 2018, 616, A1.	2.1	6,364
26	Detection of periodicity based on independence tests â€“ III. Phase distance correlation periodogram. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 474, L86-L90.	1.2	12
27	GaiaData Release 2. Astronomy and Astrophysics, 2018, 616, A12.	2.1	491
28	Methods of Reverberation Mapping. I. Time-lag Determination by Measures of Randomness. Astrophysical Journal, 2017, 844, 146.	1.6	26
29	Disproving the validated planets K2-78b, K2-82b, and K2-92b. Astronomy and Astrophysics, 2017, 606, A75.	2.1	24
30	Two empirical regimes of the planetary mass-radius relation. Astronomy and Astrophysics, 2017, 604, A83.	2.1	63
31	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 605, A79.	2.1	78
32	Gaia Data Release 1. Astronomy and Astrophysics, 2017, 601, A19.	2.1	77
33	TheGaiamission. Astronomy and Astrophysics, 2016, 595, A1.	2.1	4,509
34	GaiaData Release 1. Astronomy and Astrophysics, 2016, 595, A2.	2.1	1,590
35	EVIDENCE FOR PERIODICITY IN 43 YEAR-LONG MONITORING OF NGC 5548. Astrophysical Journal, Supplement Series, 2016, 225, 29.	3.0	57
36	VERY LOW-MASS STELLAR AND SUBSTELLAR COMPANIONS TO SOLAR-LIKE STARS FROM MARVELS. VI. A GIANT PLANET AND A BROWN DWARF CANDIDATE IN A CLOSE BINARY SYSTEM HD 87646. Astronomical Journal, 2016, 152, 112.	1.9	34

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37	A possible correlation between planetary radius and orbital period for small planets. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 455, L96-L98.	1.2	35
38	Detection of Periodicity Based on Independence Tests â€“ II. Improved Serial Independence Measure. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 457, L118-L121.	1.2	8
39	Significance of periodogram peaks. Proceedings of the International Astronomical Union, 2015, 11, 219-219.	0.0	0
40	GATE (Gaia Transiting Exoplanets): Detecting Transiting Exoplanets with Gaia. Proceedings of the International Astronomical Union, 2015, 11, 224-224.	0.0	0
41	Detection of periodicity based on serial dependence of phase-folded data. Monthly Notices of the Royal Astronomical Society, 2015, 449, 2723-2733.	1.6	8
42	Constraining the orbits of small solar system bodies using spectroscopic Doppler shift measurements â€“ a preliminary study. Astronomische Nachrichten, 2015, 336, 634-637.	0.6	1
43	Search for brown-dwarf companions of stars (Corrigendum). Astronomy and Astrophysics, 2014, 565, C2.	2.1	0
44	Directed follow-up strategy of low-cadence photometric surveys in search of transiting exoplanets â€“ II. Application to Gaia. Monthly Notices of the Royal Astronomical Society, 2013, 428, 3641-3647.	1.6	32
45	QUASAR CARTOGRAPHY: FROM BLACK HOLE TO BROAD-LINE REGION SCALES. Astrophysical Journal, 2013, 769, 124.	1.6	25
46	TRANSIT TIMING OBSERVATIONS FROM KEPLER . VIII. CATALOG OF TRANSIT TIMING MEASUREMENTS OF THE FIRST TWELVE QUARTERS. Astrophysical Journal, Supplement Series, 2013, 208, 16.	3.0	147
47	DETECTION OF TRANSITING JOVIAN EXOPLANETS BY GAIA PHOTOMETRYâ€"EXPECTED YIELD. Astrophysical Journal Letters, 2012, 753, L1.	3.0	44
48	Kepler KOI-13.01 â€“ Detection of beaming and ellipsoidal modulations pointing to a massive hot Jupiter. Astronomy and Astrophysics, 2012, 541, A56.	2.1	56
49	A simple method to estimate radial velocity variations due to stellar activity using photometryâ˜.... Monthly Notices of the Royal Astronomical Society, 2012, 419, 3147-3158.	1.6	223
50	On using the beaming effect to measure spinâ€"orbit alignment in stellar binaries with Sun-like components. New Astronomy, 2012, 17, 309-315.	0.8	45
51	The Impact of Gaia and LSST on Binaries and Exoplanets. Proceedings of the International Astronomical Union, 2011, 7, 33-40.	0.0	0
52	TODCOR â€“ Two-Dimensional Correlation. Proceedings of the International Astronomical Union, 2011, 7, 371-378.	0.0	0
53	ON THE AGES OF PLANETARY SYSTEMS WITH MEAN-MOTION RESONANCES. Astrophysical Journal Letters, 2011, 741, L23.	3.0	9
54	Reassessing the radial-velocity evidence for planets around CoRoT-7. Monthly Notices of the Royal Astronomical Society, 2011, 411, 1953-1962.	1.6	88

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55	Directed follow-up strategy of low-cadence photometric surveys in search of transiting exoplanets - I. Bayesian approach for adaptive scheduling. Monthly Notices of the Royal Astronomical Society, 2011, 415, 2513-2522.	1.6	30
56	Search for brown-dwarf companions of stars. Astronomy and Astrophysics, 2011, 525, A95.	2.1	155
57	Detecting a small Kuiper Belt object using archival data of HST's Fine Guidance Sensor. , 2011, , .		0
58	Noise properties of the CoRoT data. Astronomy and Astrophysics, 2009, 506, 425-429.	2.1	46
59	Rate and nature of false positives in the CoRoT exoplanet search. Astronomy and Astrophysics, 2009, 506, 337-341.	2.1	44
60	Removing systematics from the CoRoT light curves. Astronomy and Astrophysics, 2009, 506, 431-434.	2.1	19
61	TRIMOR - three-dimensional correlation technique to analyse multi-order spectra of triple stellar systems: application to HDâ€ƒ188753. Monthly Notices of the Royal Astronomical Society, 2009, 399, 906-913.	1.6	28
62	A single sub-kilometre Kuiper belt object from a stellar occultation in archival data. Nature, 2009, 462, 895-897.	13.7	82
63	Hebrew names of the planets. Proceedings of the International Astronomical Union, 2009, 5, 301-305.	0.0	0
64	Spectroscopic binary mass determination using relativity. Proceedings of the International Astronomical Union, 2009, 5, 135-139.	0.0	0
65	From ESPRESSO to CODEX. Thirty Years of Astronomical Discovery With UKIRT, 2009, , 243-247.	0.3	2
66	ESPRESSO: A High Resolution Spectrograph for the Combined CoudÃ© Focus of the VLT. Thirty Years of Astronomical Discovery With UKIRT, 2009, , 395-399.	0.3	29
67	Cosmic dynamics in the era of Extremely Large Telescopes. Monthly Notices of the Royal Astronomical Society, 2008, 386, 1192-1218.	1.6	210
68	Transiting exoplanets from the CoRoT space mission. Astronomy and Astrophysics, 2008, 488, L43-L46.	2.1	63
69	Transiting exoplanets from the CoRoT space mission. Astronomy and Astrophysics, 2008, 491, 889-897.	2.1	174
70	Codex. , 2008, , 249-253.		21
71	ELODIE metallicity-biased search for transiting Hot Jupiters. Astronomy and Astrophysics, 2008, 487, 369-372.	2.1	13
72	Spectroscopic Binary Mass Determination Using Relativity. , 2008, , 149-152.		0

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73	TIRAVEL â€" Template Independent RAdial VELocity Measurement. , 2008, , 327-328.		0
74	Beaming Binaries: A New Observational Category of Photometric Binary Stars. Astrophysical Journal, 2007, 670, 1326-1330.	1.6	140
75	Spectroscopic Binary Mass Determination Using Relativity. Astrophysical Journal, 2007, 654, L83-L86.	1.6	17
76	Photometric follow-up of the transiting planet WASP-1b. Monthly Notices of the Royal Astronomical Society, 2007, 376, 1296-1300.	1.6	48
77	ELODIE metallicity-biased search for transiting Hot Jupiters. Astronomy and Astrophysics, 2007, 473, 323-328.	2.1	23
78	The exoplanet hunter HARPS: unequalled accuracy and perspectives toward 1 cm s-1precision. , 2006, , .		28
79	Probing Post-Newtonian Physics near the Galactic Black Hole with Stellar Redshift Measurements. Astrophysical Journal, 2006, 639, L21-L24.	1.6	102
80	tiravelï¿½ï¿½ï¿½ Template-Independent RAdial VELocity measurement. Monthly Notices of the Royal Astronomical Society, 2006, 371, 1513-1518.	1.6	12
81	The effect of red noise on planetary transit detection. Monthly Notices of the Royal Astronomical Society, 2006, 373, 231-242.	1.6	445
82	Elodie metallicity-biased search for transiting Hot Jupiters. Astronomy and Astrophysics, 2006, 446, 717-722.	2.1	52
83	A massive planet to the young disc star HDÂ81040. Astronomy and Astrophysics, 2006, 449, 417-424.	2.1	23
84	ELODIE metallicity-biased search for transiting Hot Jupiters. Astronomy and Astrophysics, 2006, 458, 327-329.	2.1	16
85	ELODIE metallicity-biased search for transiting Hot Jupiters. Astronomy and Astrophysics, 2005, 444, L15-L19.	2.1	385
86	An Upper Bound on the 1.6 Micron Flux Ratio of the Companion to Ï•Coronae Borealis. Astronomical Journal, 2005, 129, 402-408.	1.9	44
87	CODEX: measuring the acceleration of the universe and beyond. Proceedings of the International Astronomical Union, 2005, 1, 193-197.	0.0	8
88	An intriguing correlation between the masses and periods of the transiting planets. Monthly Notices of the Royal Astronomical Society, 2005, 356, 955-957.	1.6	108
89	Correcting systematic effects in a large set of photometric light curves. Monthly Notices of the Royal Astronomical Society, 2005, 356, 1466-1470.	1.6	419
90	Comparative blind test of five planetary transit detection algorithms on realistic synthetic light curves. Astronomy and Astrophysics, 2005, 437, 355-368.	2.1	59

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91	SINFONI in the Galactic Center: Young Stars and Infrared Flares in the Central Lightâ€Month. Astrophysical Journal, 2005, 628, 246-259.	1.6	532
92	Planets in Multiple-Star Systems: Properties and Detections. International Astronomical Union Colloquium, 2004, 191, 206-214.	0.1	3
93	Eclipsing binaries in open clusters â€“ III. V621 Per in Ï‡ Persei. Monthly Notices of the Royal Astronomical Society, 2004, 355, 986-994.	1.6	138
94	A note on the snow line in protostellar accretion disks. Meteoritics and Planetary Science, 2004, 39, 1859-1868.	0.7	56
95	Multi-order TODCOR: Application to observations taken with the CORALIE echelle spectrograph. Astronomy and Astrophysics, 2004, 426, 695-698.	2.1	134
96	Cross-correlation and maximum-likelihood analysis: a new approach to combining cross-correlation functions. Monthly Notices of the Royal Astronomical Society, 2003, 342, 1291-1298.	1.6	113
97	The Mass Ratio Distribution in Mainâ€Sequence Spectroscopic Binaries Measured by Infrared Spectroscopy. Astrophysical Journal, 2003, 599, 1344-1356.	1.6	70
98	A Possible Correlation between Mass Ratio and Period Ratio in Multiple Planetary Systems. Astrophysical Journal, 2003, 590, L115-L117.	1.6	11
99	Multi-order TODCOR: Application to observations taken with the CORALIE echelle spectrograph. Astronomy and Astrophysics, 2003, 404, 775-781.	2.1	61
100	A box-fitting algorithm in the search for periodic transits. Astronomy and Astrophysics, 2002, 391, 369-377.	2.1	839
101	On the Mass-Period Correlation of the Extrasolar Planets. Astrophysical Journal, 2002, 568, L113-L116.	1.6	168
102	The Smallest Mass Ratio Young Star Spectroscopic Binaries. Astrophysical Journal, 2002, 569, 863-871.	1.6	73
103	Component Masses of the Young Spectroscopic Binary UZ Tau E. Astrophysical Journal, 2002, 579, L99-L102.	1.6	69
104	Infrared Detection of Lowâ€Mass Secondaries in Spectroscopic Binaries. Astrophysical Journal, 2002, 564, 1007-1014.	1.6	38
105	A Planet Candidate in the Stellar Triple System HD 178911. Astrophysical Journal, 2002, 568, 363-368.	1.6	50
106	Comparison between Extrasolar Planets and Low-Mass Secondaries. Symposium - International Astronomical Union, 2001, 200, 519-528.	0.1	5
107	Studies of multiple stellar systems -- IV. The triple-lined spectroscopic system Gliese 644. Monthly Notices of the Royal Astronomical Society, 2001, 325, 343-357.	1.6	22
108	Derivation of the Mass Distribution of Extrasolar Planets with MAXLIMA, a Maximum Likelihood Algorithm. Astrophysical Journal, 2001, 562, 1038-1044.	1.6	46

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109	Dynamical mass determination for the very low mass stars LHS 1070 B and C. Astronomy and Astrophysics, 2001, 367, 183-188.	2.1	23
110	HD 80606 b, a planet on an extremely elongated orbit. Astronomy and Astrophysics, 2001, 375, L27-L30.	2.1	165
111	Analysis of theHipparcosObservations of the Extrasolar Planets and the Brown Dwarf Candidates. Astrophysical Journal, 2001, 562, 549-557.	1.6	68
112	The Spectroscopic Orbit of the Planetary Companion Transiting HD 209458. Astrophysical Journal, 2000, 532, L55-L58.	1.6	257
113	Analysis of the [ITAL]Hipparcos[/ITAL] Measurements of HD 10697: A Mass Determination of a Brown Dwarf Secondary. Astrophysical Journal, 2000, 531, L67-L69.	1.6	60
114	Analysis of the [ITAL]Hipparcos[/ITAL] Measurements of ï... Andromedae: A Mass Estimate of Its Outermost Known Planetary Companion. Astrophysical Journal, 1999, 522, L149-L151.	1.6	59
115	Study of Spectroscopic Binaries with TODCOR. II. The Highly Eccentric Binary HD 2909. Astrophysical Journal, 1995, 449, 909.	1.6	12
116	Study of Spectroscopic Binaries with TODCOR. III. Application to Triple-lined Systems. Astrophysical Journal, 1995, 452, 863.	1.6	49
117	Todcor: A TwO-Dimensional CORrelation technique to analyze stellar spectra in search of faint companions. Astrophysics and Space Science, 1994, 212, 349-356.	0.5	33
118	Study of spectroscopic binaries with TODCOR. 1: A new two-dimensional correlation algorithm to derive the radial velocities of the two components. Astrophysical Journal, 1994, 420, 806.	1.6	372
119	TODCOR: A Two-Dimensional Correlation of a Composite Spectrum to Derive the Radial Velocities of its Components. International Astronomical Union Colloquium, 1992, 135, 164-166.	0.1	0
120	Observations of extrasolar planetary systems. , 0, , 3-20.		0
121	Analysis of the public HARPS/ESO spectroscopic archive. Jupiter-like planets around HD103891 and HD105779. Astronomy and Astrophysics, 0, , .	2.1	4