

Shay Zucker

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118
papers

17,155
citations

47
h-index

124
g-index

124
ext. papers

19,837
ext. citations

4.7
avg, IF

5.81
L-index

#	Paper	IF	Citations
118	Fluid-like representation of Fickian diffusion. <i>Physics of Fluids</i> , 2022 , 34, 011701	4.4	2
117	New periodograms separating orbital radial velocities and spectral shape variation. <i>Astronomy and Astrophysics</i> , 2022 , 659, A189	5.1	0
116	Exoplanets in the Galactic context: planet occurrence rates in the thin disc, thick disc, and stellar halo of Kepler stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022 , 510, 3449-3459	4.3	2
115	Shallow TransitsDeep Learning. II. Identify Individual Exoplanetary Transits in Red Noise using Deep Learning. <i>Astronomical Journal</i> , 2022 , 163, 237	4.9	
114	A Transiting Warm Giant Planet around the Young Active Star TOI-201. <i>Astronomical Journal</i> , 2021 , 161, 235	4.9	5
113	Systematic search for long-term transit duration changes in Kepler transiting planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 505, 1293-1310	4.3	3
112	Quantifying the similarity of planetary system architectures. <i>Astronomy and Astrophysics</i> , 2021 , 651, A615.1	5.1	3
111	Sparse Box-fitting Least Squares. <i>Publications of the Astronomical Society of the Pacific</i> , 2021 , 133, 024503		0
110	Public HARPS radial velocity database corrected for systematic errors. <i>Astronomy and Astrophysics</i> , 2020 , 636, A74	5.1	45
109	Occurrence rates of small planets from HARPS. <i>Astronomy and Astrophysics</i> , 2020 , 643, A106	5.1	4
108	USuRPER: Unit-sphere representation periodogram for full spectra. <i>Astronomy and Astrophysics</i> , 2020 , 642, A146	5.1	3
107	Detection of periodicity based on independence tests IV. Phase distance correlation periodogram for two-dimensional astrometry. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019 , 484, L14-L18	4.3	2
106	Gaia Data Release 2. <i>Astronomy and Astrophysics</i> , 2019 , 623, A110	5.1	62
105	Small Planets in the Galactic Context: Host Star Kinematics, Iron, and Alpha-element Enhancement. <i>Astronomical Journal</i> , 2019 , 158, 61	4.9	8
104	Prospects for detecting the astrometric signature of Barnard's Star b. <i>Astronomy and Astrophysics</i> , 2019 , 623, A10	5.1	3
103	Correcting HIRES/Keck radial velocities for small systematic errors. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019 , 484, L8-L13	4.3	45
102	Shallow TransitsDeep Learning. I. Feasibility Study of Deep Learning to Detect Periodic Transits of Exoplanets. <i>Astronomical Journal</i> , 2018 , 155, 147	4.9	43

101	Gaia Data Release 2. <i>Astronomy and Astrophysics</i> , 2018 , 616, A10	5.1	438
100	Gaia Data Release 2. <i>Astronomy and Astrophysics</i> , 2018 , 616, A1	5.1	4787
99	Detection of periodicity based on independence tests III. Phase distance correlation periodogram. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018 , 474, L86-L90	4.3	8
98	Gaia Data Release 2. <i>Astronomy and Astrophysics</i> , 2018 , 616, A12	5.1	384
97	Gaia Data Release 2. <i>Astronomy and Astrophysics</i> , 2018 , 618, A30	5.1	95
96	A Quantitative Comparison of Exoplanet Catalogs. <i>Geosciences (Switzerland)</i> , 2018 , 8, 325	2.7	7
95	Gaia Data Release 2. <i>Astronomy and Astrophysics</i> , 2018 , 616, A11	5.1	237
94	Gaia Data Release 2. <i>Astronomy and Astrophysics</i> , 2018 , 616, A13	5.1	56
93	Gaia Data Release 2. <i>Astronomy and Astrophysics</i> , 2018 , 616, A14	5.1	100
92	Disproving the validated planets K2-78b, K2-82b, and K2-92b. <i>Astronomy and Astrophysics</i> , 2017 , 606, A75	5.1	22
91	Two empirical regimes of the planetary mass-radius relation. <i>Astronomy and Astrophysics</i> , 2017 , 604, A83	5.1	44
90	Methods of Reverberation Mapping. I. Time-lag Determination by Measures of Randomness. <i>Astrophysical Journal</i> , 2017 , 844, 146	4.7	15
89	Gaia Data Release 1. <i>Astronomy and Astrophysics</i> , 2017 , 605, A79	5.1	64
88	Gaia Data Release 1. <i>Astronomy and Astrophysics</i> , 2017 , 601, A19	5.1	71
87	EVIDENCE FOR PERIODICITY IN 43 YEAR-LONG MONITORING OF NGC 5548. <i>Astrophysical Journal, Supplement Series</i> , 2016 , 225, 29	8	49
86	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. <i>Astronomical Journal</i> , 2016 , 152, 112	4.9	28
85	A possible correlation between planetary radius and orbital period for small planets. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016 , 455, L96-L98	4.3	29
84	Detection of Periodicity Based on Independence Tests II. Improved Serial Independence Measure. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016 , 457, L118-L121	4.3	7

83	TheGaia mission. <i>Astronomy and Astrophysics</i> , 2016 , 595, A1	5.1	2933
82	Gaia Data Release 1. <i>Astronomy and Astrophysics</i> , 2016 , 595, A2	5.1	1364
81	Constraining the orbits of small solar system bodies using spectroscopic Doppler shift measurements I a preliminary study. <i>Astronomische Nachrichten</i> , 2015 , 336, 634-637	0.7	1
80	Significance of periodogram peaks. <i>Proceedings of the International Astronomical Union</i> , 2015 , 11, 219-219.1	0.1	1
79	GATE (Gaia Transiting Exoplanets): Detecting Transiting Exoplanets with Gaia. <i>Proceedings of the International Astronomical Union</i> , 2015 , 11, 224-224	0.1	1
78	Detection of periodicity based on serial dependence of phase-folded data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 449, 2723-2733	4.3	6
77	Directed follow-up strategy of low-cadence photometric surveys in search of transiting exoplanets III. Application to Gaia. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013 , 428, 3641-3647	4.3	23
76	QUASAR CARTOGRAPHY: FROM BLACK HOLE TO BROAD-LINE REGION SCALES. <i>Astrophysical Journal</i> , 2013 , 769, 124	4.7	22
75	TRANSIT TIMING OBSERVATIONS FROM KEPLER . VIII. CATALOG OF TRANSIT TIMING MEASUREMENTS OF THE FIRST TWELVE QUARTERS. <i>Astrophysical Journal, Supplement Series</i> , 2013 , 208, 16	8	127
74	On using the beaming effect to measure spin-orbit alignment in stellar binaries with Sun-like components. <i>New Astronomy</i> , 2012 , 17, 309-315	1.8	38
73	DETECTION OF TRANSITING JOVIAN EXOPLANETS BY GAIA PHOTOMETRY EXPECTED YIELD. <i>Astrophysical Journal Letters</i> , 2012 , 753, L1	7.9	34
72	Kepler KOI-13.01 I Detection of beaming and ellipsoidal modulations pointing to a massive hot Jupiter. <i>Astronomy and Astrophysics</i> , 2012 , 541, A56	5.1	55
71	A simple method to estimate radial velocity variations due to stellar activity using photometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012 , 419, 3147-3158	4.3	170
70	The Impact of Gaia and LSST on Binaries and Exoplanets. <i>Proceedings of the International Astronomical Union</i> , 2011 , 7, 33-40	0.1	1
69	TODCOR I Two-Dimensional Correlation. <i>Proceedings of the International Astronomical Union</i> , 2011 , 7, 371-378	0.1	1
68	ON THE AGES OF PLANETARY SYSTEMS WITH MEAN-MOTION RESONANCES. <i>Astrophysical Journal Letters</i> , 2011 , 741, L23	7.9	8
67	Reassessing the radial-velocity evidence for planets around CoRoT-7. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 411, 1953-1962	4.3	75
66	Directed follow-up strategy of low-cadence photometric surveys in search of transiting exoplanets - I. Bayesian approach for adaptive scheduling. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 415, 2513-2522	4.3	24

65	Search for brown-dwarf companions of stars. <i>Astronomy and Astrophysics</i> , 2011 , 525, A95	5.1	132
64	Noise properties of the CoRoT data. <i>Astronomy and Astrophysics</i> , 2009 , 506, 425-429	5.1	45
63	Rate and nature of false positives in the CoRoT exoplanet search. <i>Astronomy and Astrophysics</i> , 2009 , 506, 337-341	5.1	42
62	Removing systematics from the CoRoT light curves. <i>Astronomy and Astrophysics</i> , 2009 , 506, 431-434	5.1	18
61	TRIMOR - three-dimensional correlation technique to analyse multi-order spectra of triple stellar systems: application to HD 188753. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 399, 906-913	4.3	21
60	A single sub-kilometre Kuiper belt object from a stellar occultation in archival data. <i>Nature</i> , 2009 , 462, 895-7	5.0.4	68
59	Hebrew names of the planets. <i>Proceedings of the International Astronomical Union</i> , 2009 , 5, 301-305	0.1	
58	Spectroscopic binary mass determination using relativity. <i>Proceedings of the International Astronomical Union</i> , 2009 , 5, 135-139	0.1	
57	From ESPRESSO to CODEX. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2009 , 243-247	0.3	2
56	ESPRESSO: A High Resolution Spectrograph for the Combined Coudé Focus of the VLT. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2009 , 395-399	0.3	20
55	Cosmic dynamics in the era of Extremely Large Telescopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008 , 386, 1192-1218	4.3	171
54	Transiting exoplanets from the CoRoT space mission. <i>Astronomy and Astrophysics</i> , 2008 , 488, L43-L46	5.1	59
53	Transiting exoplanets from the CoRoT space mission. <i>Astronomy and Astrophysics</i> , 2008 , 491, 889-897	5.1	164
52	Extrasolar Planets in Double and Multiple Stellar Systems 2008 , 169-182		1
51	Spectroscopic Binary Mass Determination Using Relativity 2008 , 149-152		
50	TIRAVEL - Template Independent RADial VELOCITY Measurement 2008 , 327-328		
49	Codex 2008 , 249-253		17
48	ELODIE metallicity-biased search for transiting Hot Jupiters. <i>Astronomy and Astrophysics</i> , 2008 , 487, 369-372	5.1	13

47	Photometric follow-up of the transiting planet WASP-1b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007 , 376, 1296-1300	4.3	42
46	Beaming Binaries: A New Observational Category of Photometric Binary Stars. <i>Astrophysical Journal</i> , 2007 , 670, 1326-1330	4.7	124
45	Spectroscopic Binary Mass Determination Using Relativity. <i>Astrophysical Journal</i> , 2007 , 654, L83-L86	4.7	14
44	ELODIE metallicity-biased search for transiting Hot Jupiters. <i>Astronomy and Astrophysics</i> , 2007 , 473, 323-328	5.2	18
43	The exoplanet hunter HARPS: unequalled accuracy and perspectives toward 1 cm s ⁻¹ precision 2006		18
42	Probing Post-Newtonian Physics near the Galactic Black Hole with Stellar Redshift Measurements. <i>Astrophysical Journal</i> , 2006 , 639, L21-L24	4.7	92
41	Template-Independent RADial VELOCITY measurement. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 371, 1513-1518	4.3	10
40	The effect of red noise on planetary transit detection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006 , 373, 231-242	4.3	404
39	Elodie metallicity-biased search for transiting Hot Jupiters. <i>Astronomy and Astrophysics</i> , 2006 , 446, 717-722	5.2	46
38	A massive planet to the young disc star HD 81040. <i>Astronomy and Astrophysics</i> , 2006 , 449, 417-424	5.1	17
37	ELODIE metallicity-biased search for transiting Hot Jupiters. <i>Astronomy and Astrophysics</i> , 2006 , 458, 327-329	5.2	13
36	SINFONI in the Galactic Center: Young Stars and Infrared Flares in the Central Light-Month. <i>Astrophysical Journal</i> , 2005 , 628, 246-259	4.7	493
35	ELODIE metallicity-biased search for transiting Hot Jupiters. <i>Astronomy and Astrophysics</i> , 2005 , 444, L15-L19	5.1	331
34	An Upper Bound on the 1.6 Micron Flux Ratio of the Companion to ϵ Coronae Borealis. <i>Astronomical Journal</i> , 2005 , 129, 402-408	4.9	38
33	CODEX: measuring the acceleration of the universe and beyond. <i>Proceedings of the International Astronomical Union</i> , 2005 , 1, 193-197	0.1	6
32	An intriguing correlation between the masses and periods of the transiting planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005 , 356, 955-957	4.3	100
31	Correcting systematic effects in a large set of photometric light curves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005 , 356, 1466-1470	4.3	354
30	Comparative blind test of five planetary transit detection algorithms on realistic synthetic light curves. <i>Astronomy and Astrophysics</i> , 2005 , 437, 355-368	5.1	54

29	Planets in Multiple-Star Systems: Properties and Detections. <i>International Astronomical Union Colloquium</i> , 2004 , 191, 206-214		3
28	Eclipsing binaries in open clusters III. V621 Per in [Persei. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 355, 986-994	4.3	128
27	A note on the snow line in protostellar accretion disks. <i>Meteoritics and Planetary Science</i> , 2004 , 39, 1859-1868		48
26	Multi-order TODCOR: Application to observations taken with the CORALIE echelle spectrograph. <i>Astronomy and Astrophysics</i> , 2004 , 426, 695-698	5.1	118
25	The Mass Ratio Distribution in Main-Sequence Spectroscopic Binaries Measured by Infrared Spectroscopy. <i>Astrophysical Journal</i> , 2003 , 599, 1344-1356	4.7	68
24	A Possible Correlation between Mass Ratio and Period Ratio in Multiple Planetary Systems. <i>Astrophysical Journal</i> , 2003 , 590, L115-L117	4.7	10
23	Cross-correlation and maximum-likelihood analysis: a new approach to combining cross-correlation functions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003 , 342, 1291-1298	4.3	87
22	Multi-order TODCOR: Application to observations taken with the CORALIE echelle spectrograph. <i>Astronomy and Astrophysics</i> , 2003 , 404, 775-781	5.1	51
21	A box-fitting algorithm in the search for periodic transits. <i>Astronomy and Astrophysics</i> , 2002 , 391, 369-373	5.1	694
20	On the Mass-Period Correlation of the Extrasolar Planets. <i>Astrophysical Journal</i> , 2002 , 568, L113-L116	4.7	158
19	The Smallest Mass Ratio Young Star Spectroscopic Binaries. <i>Astrophysical Journal</i> , 2002 , 569, 863-871	4.7	69
18	Component Masses of the Young Spectroscopic Binary UZ Tau E. <i>Astrophysical Journal</i> , 2002 , 579, L99-L102		65
17	Infrared Detection of Low-Mass Secondaries in Spectroscopic Binaries. <i>Astrophysical Journal</i> , 2002 , 564, 1007-1014	4.7	38
16	A Planet Candidate in the Stellar Triple System HD 178911. <i>Astrophysical Journal</i> , 2002 , 568, 363-368	4.7	43
15	Studies of multiple stellar systems -- IV. The triple-lined spectroscopic system Gliese 644. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001 , 325, 343-357	4.3	21
14	Derivation of the Mass Distribution of Extrasolar Planets with MAXLIMA, a Maximum Likelihood Algorithm. <i>Astrophysical Journal</i> , 2001 , 562, 1038-1044	4.7	42
13	Comparison between Extrasolar Planets and Low-Mass Secondaries. <i>Symposium - International Astronomical Union</i> , 2001 , 200, 519-528		5
12	Dynamical mass determination for the very low mass stars LHS 1070 B and C. <i>Astronomy and Astrophysics</i> , 2001 , 367, 183-188	5.1	23

11	HD 80606 b, a planet on an extremely elongated orbit. <i>Astronomy and Astrophysics</i> , 2001 , 375, L27-L30	5.1	148
10	Analysis of the Hipparcos Observations of the Extrasolar Planets and the Brown Dwarf Candidates. <i>Astrophysical Journal</i> , 2001 , 562, 549-557	4.7	56
9	The Spectroscopic Orbit of the Planetary Companion Transiting HD 209458. <i>Astrophysical Journal</i> , 2000 , 532, L55-L58	4.7	243
8	Analysis of the Hipparcos Measurements of HD 10697: A Mass Determination of a Brown Dwarf Secondary. <i>Astrophysical Journal</i> , 2000 , 531, L67-L69	4.7	52
7	Analysis of the [ITAL]Hipparcos[/ITAL] Measurements of μ Andromedae: A Mass Estimate of Its Outermost Known Planetary Companion. <i>Astrophysical Journal</i> , 1999 , 522, L149-L151	4.7	51
6	Study of Spectroscopic Binaries with TODCOR. II. The Highly Eccentric Binary HD 2909. <i>Astrophysical Journal</i> , 1995 , 449, 909	4.7	12
5	Study of Spectroscopic Binaries with TODCOR. III. Application to Triple-lined Systems. <i>Astrophysical Journal</i> , 1995 , 452, 863	4.7	48
4	Todcor: A Two-Dimensional CORrelation technique to analyze stellar spectra in search of faint companions. <i>Astrophysics and Space Science</i> , 1994 , 212, 349-356	1.6	29
3	Study of spectroscopic binaries with TODCOR. 1: A new two-dimensional correlation algorithm to derive the radial velocities of the two components. <i>Astrophysical Journal</i> , 1994 , 420, 806	4.7	346
2	TODCOR: A Two-Dimensional Correlation of a Composite Spectrum to Derive the Radial Velocities of its Components. <i>International Astronomical Union Colloquium</i> , 1992 , 135, 164-166		
1	Observations of extrasolar planetary systems 3-20		