

# Shay Zucker

## List of Publications by Year in descending order

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121  
papers

22,177  
citations

47006

47  
h-index

27406

106  
g-index

125  
all docs

125  
docs citations

125  
times ranked

12323  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A1.	5.1	6,364
2	The <i>Gaia</i> mission. <i>Astronomy and Astrophysics</i> , 2016, 595, A1.	5.1	4,509
3	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2016, 595, A2.	5.1	1,590
4	A box-fitting algorithm in the search for periodic transits. <i>Astronomy and Astrophysics</i> , 2002, 391, 369-377.	5.1	839
5	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A10.	5.1	638
6	SINFONI in the Galactic Center: Young Stars and Infrared Flares in the Central Light-Month. <i>Astrophysical Journal</i> , 2005, 628, 246-259.	4.5	532
7	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A12.	5.1	491
8	The effect of red noise on planetary transit detection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 373, 231-242.	4.4	445
9	Correcting systematic effects in a large set of photometric light curves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 356, 1466-1470.	4.4	419
10	ELODIE metallicity-biased search for transiting Hot Jupiters. <i>Astronomy and Astrophysics</i> , 2005, 444, L15-L19.	5.1	385
11	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.	4.5	372
12	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A11.	5.1	323
13	The Spectroscopic Orbit of the Planetary Companion Transiting HD 209458. <i>Astrophysical Journal</i> , 2000, 532, L55-L58.	4.5	257
14	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.	4.4	223
15	Cosmic dynamics in the era of Extremely Large Telescopes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 386, 1192-1218.	4.4	210
16	Transiting exoplanets from the <i>CoRoT</i> space mission. <i>Astronomy and Astrophysics</i> , 2008, 491, 889-897.	5.1	174
17	On the Mass-Period Correlation of the Extrasolar Planets. <i>Astrophysical Journal</i> , 2002, 568, L113-L116.	4.5	168
18	HD 80606 b, a planet on an extremely elongated orbit. <i>Astronomy and Astrophysics</i> , 2001, 375, L27-L30.	5.1	165

#	ARTICLE	IF	CITATIONS
19	Search for brown-dwarf companions of stars. <i>Astronomy and Astrophysics</i> , 2011, 525, A95.	5.1	155
20	TRANSIT TIMING OBSERVATIONS FROM <i>KEPLER</i> . VIII. CATALOG OF TRANSIT TIMING MEASUREMENTS OF THE FIRST TWELVE QUARTERS. <i>Astrophysical Journal, Supplement Series</i> , 2013, 208, 16.	7.7	147
21	Beaming Binaries: A New Observational Category of Photometric Binary Stars. <i>Astrophysical Journal</i> , 2007, 670, 1326-1330.	4.5	140
22	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A14.	5.1	140
23	Eclipsing binaries in open clusters â€“ III. V621 Per in Î† Persei. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 355, 986-994.	4.4	138
24	Multi-order TODCOR: Application to observations taken with the CORALIE echelle spectrograph. <i>Astronomy and Astrophysics</i> , 2004, 426, 695-698.	5.1	134
25	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 618, A30.	5.1	117
26	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.	4.4	113
27	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.	4.4	108
28	Public HARPS radial velocity database corrected for systematic errors. <i>Astronomy and Astrophysics</i> , 2020, 636, A74.	5.1	107
29	Probing Post-Newtonian Physics near the Galactic Black Hole with Stellar Redshift Measurements. <i>Astrophysical Journal</i> , 2006, 639, L21-L24.	4.5	102
30	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2019, 623, A110.	5.1	101
31	Reassessing the radial-velocity evidence for planets around CoRoT-7. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 411, 1953-1962.	4.4	88
32	A single sub-kilometre Kuiper belt object from a stellar occultation in archival data. <i>Nature</i> , 2009, 462, 895-897.	27.8	82
33	<i>Gaia</i> Data Release 2. <i>Astronomy and Astrophysics</i> , 2018, 616, A13.	5.1	78
34	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2017, 605, A79.	5.1	78
35	<i>Gaia</i> Data Release 1. <i>Astronomy and Astrophysics</i> , 2017, 601, A19.	5.1	77
36	The Smallest Mass Ratio Young Star Spectroscopic Binaries. <i>Astrophysical Journal</i> , 2002, 569, 863-871.	4.5	73

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37	The Mass Ratio Distribution in Main-Sequence Spectroscopic Binaries Measured by Infrared Spectroscopy. <i>Astrophysical Journal</i> , 2003, 599, 1344-1356.	4.5	70
38	Component Masses of the Young Spectroscopic Binary UZ Tau E. <i>Astrophysical Journal</i> , 2002, 579, L99-L102.	4.5	69
39	Correcting HIRES/Keck radial velocities for small systematic errors. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 484, L8-L13.	3.3	69
40	Analysis of the Hipparcos Observations of the Extrasolar Planets and the Brown Dwarf Candidates. <i>Astrophysical Journal</i> , 2001, 562, 549-557.	4.5	68
41	Transiting exoplanets from the CoRoT space mission. <i>Astronomy and Astrophysics</i> , 2008, 488, L43-L46.	5.1	63
42	Two empirical regimes of the planetary mass-radius relation. <i>Astronomy and Astrophysics</i> , 2017, 604, A83.	5.1	63
43	Multi-order TODCOR: Application to observations taken with the CORALIE echelle spectrograph. <i>Astronomy and Astrophysics</i> , 2003, 404, 775-781.	5.1	61
44	Analysis of the [ITAL]Hipparcos[/ITAL] Measurements of HD 10697: A Mass Determination of a Brown Dwarf Secondary. <i>Astrophysical Journal</i> , 2000, 531, L67-L69.	4.5	60
45	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	59
46	Analysis of the [ITAL]Hipparcos[/ITAL] Measurements of Ĩ... Andromedae: A Mass Estimate of Its Outermost Known Planetary Companion. <i>Astrophysical Journal</i> , 1999, 522, L149-L151.	4.5	59
47	EVIDENCE FOR PERIODICITY IN 43 YEAR-LONG MONITORING OF NGC 5548. <i>Astrophysical Journal, Supplement Series</i> , 2016, 225, 29.	7.7	57
48	Shallow Transitsâ€”Deep Learning. I. Feasibility Study of Deep Learning to Detect Periodic Transits of Exoplanets. <i>Astronomical Journal</i> , 2018, 155, 147.	4.7	57
49	A note on the snow line in protostellar accretion disks. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1859-1868.	1.6	56
50	Kepler KOI-13.01 â€” Detection of beaming and ellipsoidal modulations pointing to a massive hot Jupiter. <i>Astronomy and Astrophysics</i> , 2012, 541, A56.	5.1	56
51	Elodie metallicity-biased search for transiting Hot Jupiters. <i>Astronomy and Astrophysics</i> , 2006, 446, 717-722.	5.1	52
52	A Planet Candidate in the Stellar Triple System HD 178911. <i>Astrophysical Journal</i> , 2002, 568, 363-368.	4.5	50
53	Study of Spectroscopic Binaries with TODCOR. III. Application to Triple-lined Systems. <i>Astrophysical Journal</i> , 1995, 452, 863.	4.5	49
54	Photometric follow-up of the transiting planet WASP-1b. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 376, 1296-1300.	4.4	48

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55	Derivation of the Mass Distribution of Extrasolar Planets with MAXLIMA, a Maximum Likelihood Algorithm. <i>Astrophysical Journal</i> , 2001, 562, 1038-1044.	4.5	46
56	Noise properties of the CoRoT data. <i>Astronomy and Astrophysics</i> , 2009, 506, 425-429.	5.1	46
57	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	45
58	An Upper Bound on the 1.6 Micron Flux Ratio of the Companion to $\epsilon$ -Coronae Borealis. <i>Astronomical Journal</i> , 2005, 129, 402-408.	4.7	44
59	Rate and nature of false positives in the CoRoT exoplanet search. <i>Astronomy and Astrophysics</i> , 2009, 506, 337-341.	5.1	44
60	DETECTION OF TRANSITING JOVIAN EXOPLANETS BY GAIA PHOTOMETRY—EXPECTED YIELD. <i>Astrophysical Journal Letters</i> , 2012, 753, L1.	8.3	44
61	Infrared Detection of Low-Mass Secondaries in Spectroscopic Binaries. <i>Astrophysical Journal</i> , 2002, 564, 1007-1014.	4.5	38
62	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.	3.3	35
63	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.	4.7	34
64	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.	1.4	33
65	Directed follow-up strategy of low-cadence photometric surveys in search of transiting exoplanets — II. Application to Gaia. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 3641-3647.	4.4	32
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.	4.4	30
67	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	29
68	The exoplanet hunter HARPS: unequalled accuracy and perspectives toward 1 cm s <sup>-1</sup> precision. , 2006, , .		28
69	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.	4.4	28
70	Methods of Reverberation Mapping. I. Time-lag Determination by Measures of Randomness. <i>Astrophysical Journal</i> , 2017, 844, 146.	4.5	26
71	QUASAR CARTOGRAPHY: FROM BLACK HOLE TO BROAD-LINE REGION SCALES. <i>Astrophysical Journal</i> , 2013, 769, 124.	4.5	25
72	Disproving the validated planets K2-78b, K2-82b, and K2-92b. <i>Astronomy and Astrophysics</i> , 2017, 606, A75.	5.1	24

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73	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
74	A massive planet to the young disc star HD 81040. <i>Astronomy and Astrophysics</i> , 2006, 449, 417-424.	5.1	23
75	ELODIE metallicity-biased search for transiting Hot Jupiters. <i>Astronomy and Astrophysics</i> , 2007, 473, 323-328.	5.1	23
76	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.	4.4	22
77	Codex. , 2008, , 249-253.		21
78	A Transiting Warm Giant Planet around the Young Active Star TOI-201. <i>Astronomical Journal</i> , 2021, 161, 235.	4.7	20
79	Removing systematics from the CoRoT light curves. <i>Astronomy and Astrophysics</i> , 2009, 506, 431-434.	5.1	19
80	Spectroscopic Binary Mass Determination Using Relativity. <i>Astrophysical Journal</i> , 2007, 654, L83-L86.	4.5	17
81	ELODIE metallicity-biased search for transiting Hot Jupiters. <i>Astronomy and Astrophysics</i> , 2006, 458, 327-329.	5.1	16
82	Small Planets in the Galactic Context: Host Star Kinematics, Iron, and Alpha-element Enhancement. <i>Astronomical Journal</i> , 2019, 158, 61.	4.7	13
83	ELODIE metallicity-biased search for transiting Hot Jupiters. <i>Astronomy and Astrophysics</i> , 2008, 487, 369-372.	5.1	13
84	Template-Independent RADial VELOCITY measurement. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 371, 1513-1518.	4.4	12
85	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.	3.3	12
86	Study of Spectroscopic Binaries with TODCOR. II. The Highly Eccentric Binary HD 2909. <i>Astrophysical Journal</i> , 1995, 449, 909.	4.5	12
87	A Possible Correlation between Mass Ratio and Period Ratio in Multiple Planetary Systems. <i>Astrophysical Journal</i> , 2003, 590, L115-L117.	4.5	11
88	Occurrence rates of small planets from HARPS. <i>Astronomy and Astrophysics</i> , 2020, 643, A106.	5.1	10
89	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.	4.4	10
90	ON THE AGES OF PLANETARY SYSTEMS WITH MEAN-MOTION RESONANCES. <i>Astrophysical Journal Letters</i> , 2011, 741, L23.	8.3	9

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91	The detection of transiting exoplanets by <i>Gaia</i> . <i>Astronomy and Astrophysics</i> , 2022, 663, A101.	5.1	9
92	CODEX: measuring the acceleration of the universe and beyond. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 193-197.	0.0	8
93	Detection of periodicity based on serial dependence of phase-folded data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 2723-2733.	4.4	8
94	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.	3.3	8
95	A Quantitative Comparison of Exoplanet Catalogs. <i>Geosciences (Switzerland)</i> , 2018, 8, 325.	2.2	8
96	USuRPER: Unit-sphere representation periodogram for full spectra. <i>Astronomy and Astrophysics</i> , 2020, 642, A146.	5.1	8
97	Systematic search for long-term transit duration changes in <i>Kepler</i> transiting planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 1293-1310.	4.4	7
98	Sparse Box-fitting Least Squares. <i>Publications of the Astronomical Society of the Pacific</i> , 2021, 133, 024502.	3.1	7
99	Quantifying the similarity of planetary system architectures. <i>Astronomy and Astrophysics</i> , 2021, 651, A61.	5.1	6
100	New periodograms separating orbital radial velocities and spectral shape variation. <i>Astronomy and Astrophysics</i> , 2022, 659, A189.	5.1	6
101	Comparison between Extrasolar Planets and Low-Mass Secondaries. <i>Symposium - International Astronomical Union</i> , 2001, 200, 519-528.	0.1	5
102	Prospects for detecting the astrometric signature of Barnard's Star b. <i>Astronomy and Astrophysics</i> , 2019, 623, A10.	5.1	4
103	Fluid-like representation of Fickian diffusion. <i>Physics of Fluids</i> , 2022, 34, 011701.	4.0	4
104	Analysis of the public HARPS/ESO spectroscopic archive. Jupiter-like planets around HD103891 and HD105779. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	4
105	Planets in Multiple-Star Systems: Properties and Detections. <i>International Astronomical Union Colloquium</i> , 2004, 191, 206-214.	0.1	3
106	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.	3.3	3
107	From ESPRESSO to CODEX. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2009, , 243-247.	0.3	2
108	Constraining the orbits of small solar system bodies using spectroscopic Doppler shift measurements – a preliminary study. <i>Astronomische Nachrichten</i> , 2015, 336, 634-637.	1.2	1

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109	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
110	Observations of extrasolar planetary systems. , 0, , 3-20.		0
111	Hebrew names of the planets. Proceedings of the International Astronomical Union, 2009, 5, 301-305.	0.0	0
112	Spectroscopic binary mass determination using relativity. Proceedings of the International Astronomical Union, 2009, 5, 135-139.	0.0	0
113	The Impact of Gaia and LSST on Binaries and Exoplanets. Proceedings of the International Astronomical Union, 2011, 7, 33-40.	0.0	0
114	TODCOR â€œ Two-Dimensional Correlation. Proceedings of the International Astronomical Union, 2011, 7, 371-378.	0.0	0
115	Search for brown-dwarf companions of stars (Corrigendum). Astronomy and Astrophysics, 2014, 565, C2.	5.1	0
116	Significance of periodogram peaks. Proceedings of the International Astronomical Union, 2015, 11, 219-219.	0.0	0
117	GATE (Gaia Transiting Exoplanets): Detecting Transiting Exoplanets with Gaia. Proceedings of the International Astronomical Union, 2015, 11, 224-224.	0.0	0
118	Detecting a small Kuiper Belt object using archival data of HST's Fine Guidance Sensor. , 2011, , .		0
119	Spectroscopic Binary Mass Determination Using Relativity. , 2008, , 149-152.		0
120	TIRAVEL â€” Template Independent RAdial VELOCITY Measurement. , 2008, , 327-328.		0
121	Shallow Transitsâ€”Deep Learning. II. Identify Individual Exoplanetary Transits in Red Noise using Deep Learning. Astronomical Journal, 2022, 163, 237.	4.7	0