Travis S Metcalfe

List of Publications by Year
in descending order

85	6,624	53794 45	71685 76
papers	citations	h-index	g-index

86	86	86	4275
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Debiased Orbital and Absolute Magnitude Distribution of the Near-Earth Objects. Icarus, 2002, 156, 399-433.	2.5	605
2	Kepler Asteroseismology Program: Introduction and First Results. Publications of the Astronomical Society of the Pacific, 2010, 122, 131-143.	3.1	370
3	Kepler-36: A Pair of Planets with Neighboring Orbits and Dissimilar Densities. Science, 2012, 337, 556-559.	12.6	335
4	Weakened magnetic braking as the origin of anomalously rapid rotation in old field stars. Nature, 2016, 529, 181-184.	27.8	285
5	A REVISED EFFECTIVE TEMPERATURE SCALE FOR THE KEPLER INPUT CATALOG. Astrophysical Journal, Supplement Series, 2012, 199, 30.	7.7	269
6	THE APOKASC CATALOG: AN ASTEROSEISMIC AND SPECTROSCOPIC JOINT SURVEY OF TARGETS IN THE KEPLER FIELDS. Astrophysical Journal, Supplement Series, 2014, 215, 19.	7.7	268
7	Stellar Spin-Orbit Misalignment in a Multiplanet System. Science, 2013, 342, 331-334.	12.6	262
8	FUNDAMENTAL PROPERTIES OFKEPLERPLANET-CANDIDATE HOST STARS USING ASTEROSEISMOLOGY. Astrophysical Journal, 2013, 767, 127.	4.5	259
9	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
10	CoRoT Reveals a Magnetic Activity Cycle in a Sun-Like Star. Science, 2010, 329, 1032-1032.	12.6	203
11	A sub-Mercury-sized exoplanet. Nature, 2013, 494, 452-454.	27.8	193
12	The White Dwarf Luminosity Function from Sloan Digital Sky Survey Imaging Data. Astronomical Journal, 2006, 131, 571-581.	4.7	154
13	The Orbital and Absolute Magnitude Distributions of Main Belt Asteroids. Icarus, 1998, 131, 245-260.	2.5	142
14	A Multisite Campaign to Measure Solarâ€like Oscillations in Procyon. I. Observations, Data Reduction, and Slow Variations. Astrophysical Journal, 2008, 687, 1180-1190.	4.5	128
15	KEPLER-21b: A 1.6R_{Earth}PLANET TRANSITING THE BRIGHT OSCILLATING F SUBGIANT STAR HD 179070. Astrophysical Journal, 2012, 746, 123.	4.5	124
16	The Low-Mass Double-lined Eclipsing Binary CM Draconis: A Test of the Primordial Helium Abundance and the Mass-Radius Relation near the Bottom of the Main Sequence. Astrophysical Journal, 1996, 456, 356.	4.5	110
17	STELLAR EVIDENCE THAT THE SOLAR DYNAMO MAY BE IN TRANSITION. Astrophysical Journal Letters, 2016, 826, L2.	8.3	108
18	KEPLER-68: THREE PLANETS, ONE WITH A DENSITY BETWEEN THAT OF EARTH AND ICE GIANTS. Astrophysical Journal, 2013, 766, 40.	4.5	106

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19	A Strong Test of Electroweak Theory Using Pulsating DB White Dwarf Stars as Plasmon Neutrino Detectors. Astrophysical Journal, 2004, 602, L109-L112.	4.5	105
20	Testing White Dwarf Crystallization Theory with Asteroseismology of the Massive Pulsating DA Star BPM 37093. Astrophysical Journal, 2004, 605, L133-L136.	4.5	103
21	Stellar structure modeling using a parallel genetic algorithm for objective global optimization. Journal of Computational Physics, 2003, 185, 176-193.	3.8	93
22	A STELLAR MODEL-FITTING PIPELINE FOR ASTEROSEISMIC DATA FROM THEKEPLERMISSION. Astrophysical Journal, 2009, 699, 373-382.	4.5	89
23	Cool White Dwarfs in the Sloan Digital Sky Survey. Astronomical Journal, 2006, 131, 582-599.	4.7	86
24	CALIBRATING CONVECTIVE PROPERTIES OF SOLAR-LIKE STARS IN THE KEPLER FIELD OF VIEW. Astrophysical Journal Letters, 2012, 755, L12.	8.3	80
25	A MULTI-SITE CAMPAIGN TO MEASURE SOLAR-LIKE OSCILLATIONS IN PROCYON. II. MODE FREQUENCIES. Astrophysical Journal, 2010, 713, 935-949.	4.5	78
26	KEPLER-93b: A TERRESTRIAL WORLD MEASURED TO WITHIN 120 km, AND A TEST CASE FOR A NEWSPITZEROBSERVING MODE. Astrophysical Journal, 2014, 790, 12.	4.5	76
27	Surface Rotation and Photometric Activity for Kepler Targets. I. M and K Main-sequence Stars. Astrophysical Journal, Supplement Series, 2019, 244, 21.	7.7	74
28	Evolutionary Timescale of the Pulsating White Dwarf G117-B15A: The Most Stable Optical Clock Known. Astrophysical Journal, 2000, 534, L185-L188.	4.5	72
29	A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. Astronomical Journal, 2019, 157, 245.	4.7	72
30	Measuring¹²C(Î±, Î³)¹⁶O from White Dwarf Asteroseismology. Astrophysical Journal, 2002, 573, 803-811.	4.5	67
31	The Influence of Metallicity on Stellar Differential Rotation and Magnetic Activity. Astrophysical Journal, 2018, 852, 46.	4.5	67
32	An Unusual Brightening Of Eta Carinae. Astronomical Journal, 1999, 118, 1777-1783.	4.7	66
33	Evolution of Co-existing Long and Short Period Stellar Activity Cycles. Astrophysical Journal, 2017, 845, 79.	4.5	63
34	ASTEROSEISMIC MODELING OF 16 Cyg A & B USING THE COMPLETE KEPLER DATA SET. Astrophysical Journal Letters, 2015, 811, L37.	8.3	61
35	Magnetic Evolution and the Disappearance of Sun-Like Activity Cycles. Solar Physics, 2017, 292, 1.	2.5	60
36	The core/envelope symmetry in pulsating stars. Monthly Notices of the Royal Astronomical Society, 2003, 344, 657-664.	4.4	59

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37	Pushing the ground-based limit: 14-Î¼mag photometric precision with the definitive Whole Earth Telescope asteroseismic data set for the rapidly oscillating Ap star HRâ€ƒ1217. Monthly Notices of the Royal Astronomical Society, 2005, 358, 651-664.	4.4	59
38	The Complementary Roles of Interferometry and Asteroseismology in Determining the Mass of Solarâ€Type Stars. Astrophysical Journal, 2007, 659, 616-625.	4.5	59
39	The Asteroseismic Target List for Solar-like Oscillators Observed in 2 minute Cadence with the Transiting Exoplanet Survey Satellite. Astrophysical Journal, Supplement Series, 2019, 241, 12.	7.7	58
40	On the Structure and Properties of Differentially Rotating, Mainâ€Sequence Stars in the 1â€“2MâŠ™Range. Astrophysical Journal, 2007, 663, 560-572.	4.5	57
41	Asteroseismic Signatures of Small Convective Cores. Astrophysical Journal, 2007, 666, 413-422.	4.5	57
42	THE KEPLER-454 SYSTEM: A SMALL, NOT-ROCKY INNER PLANET, A JOVIAN WORLD, AND A DISTANT COMPANION. Astrophysical Journal, 2016, 816, 95.	4.5	55
43	Preliminary Constraints on12Câ€‰(Î±,Î³)16O from White Dwarf Seismology. Astrophysical Journal, 2001, 557, 1021-1027.	4.5	54
44	White Dwarf Asteroseismology and the [TSUP]12[/TSUP]C(Î±,â€‰Î³)[TSUP]16[/TSUP]O Rate. Astrophysical Journal, 2003, 587, L43-L46.	4.5	52
45	ASTEROSEISMIC ESTIMATE OF HELIUM ABUNDANCE OF A SOLAR ANALOG BINARY SYSTEM. Astrophysical Journal, 2014, 790, 138.	4.5	51
46	Geneticâ€Algorithmâ€“based Asteroseismological Analysis of the DBV White Dwarf GD 358. Astrophysical Journal, 2000, 545, 974-981.	4.5	48
47	A Whole Earth Telescope campaign on the pulsating subdwarf B binary system PG 1336â¯018 (NY Vir). Monthly Notices of the Royal Astronomical Society, 2003, 345, 834-846.	4.4	46
48	Age dating of an early Milky Way merger via asteroseismology of the naked-eye star Î½ Indi. Nature Astronomy, 2020, 4, 382-389.	10.1	46
49	Constraining the Evolution of ZZ Ceti. Astrophysical Journal, 2003, 594, 961-970.	4.5	37
50	Understanding the Limitations of Gyrochronology for Old Field Stars. Astrophysical Journal, 2019, 871, 39.	4.5	37
51	The Citation Impact of Digital Preprint Archives for Solar Physics Papers. Solar Physics, 2006, 239, 549-553.	2.5	36
52	SUN-LIKE MAGNETIC CYCLES IN THE RAPIDLY ROTATING YOUNG SOLAR ANALOG HD 30495. Astrophysical Journal, 2015, 812, 12.	4.5	36
53	TESS Asteroseismology of the Known Red-giant Host Stars HD 212771 and HD 203949. Astrophysical Journal, 2019, 885, 31.	4.5	28
54	Genetic-Algorithmâ€“based Light-Curve Optimization Applied to Observations of the W Ursae Majoris Star BH Cassiopeiae. Astronomical Journal, 1999, 117, 2503-2510.	4.7	28

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55	Probing the core and envelope structure of DBV white dwarfs. Monthly Notices of the Royal Astronomical Society, 2003, 344, L88-L92.	4.4	24
56	A 20 Second Cadence View of Solar-type Stars and Their Planets with TESS: Asteroseismology of Solar Analogs and a Recharacterization of Ï€ Men c. Astronomical Journal, 2022, 163, 79.	4.7	22
57	The Origin of Weakened Magnetic Braking in Old Solar Analogs. Astrophysical Journal Letters, 2022, 933, L17.	8.3	21
58	Whole Earth Telescope observations of the hot helium atmosphere pulsating white dwarf ECÂ20058â˜5234. Monthly Notices of the Royal Astronomical Society, 2008, 387, 137-152.	4.4	20
59	The asteroseismological potential of the pulsating DB white dwarf stars CBS 114 and PG 1456+103. Monthly Notices of the Royal Astronomical Society, 2002, 335, 698-706.	4.4	18
60	The Evolution of Rotation and Magnetic Activity in 94 Aqr Aa from Asteroseismology with TESS. Astrophysical Journal, 2020, 900, 154.	4.5	18
61	Amplitude and frequency variability of the pulsating DB white dwarf stars KUV 05134+2605 and PG 1654+160 observed with the Whole Earth Telescope. Monthly Notices of the Royal Astronomical Society, 2003, 340, 1031-1038.	4.4	17
62	LBT/PEPSI Spectropolarimetry of a Magnetic Morphology Shift in Old Solar-type Stars*. Astrophysical Journal Letters, 2019, 887, L38.	8.3	17
63	The Effect of [TSUP]3[/TSUP]H[CLC]e[/CLC] Diffusion on the Pulsational Spectra of DBV Models. Astrophysical Journal, 2001, 548, L53-L56.	4.5	15
64	DQ Herculis in Profile: Whole Earth Telescope Observations and Smoothed Particle Hydrodynamics Simulations of an Edgeâ€on Cataclysmic Variable System. Astrophysical Journal, 2005, 634, 570-584.	4.5	14
65	TESS Asteroseismology of Î± Mensae: Benchmark Ages for a G7 Dwarf and Its M Dwarf Companion. Astrophysical Journal, 2021, 922, 229.	4.5	14
66	Magnetic and Rotational Evolution of Ï•CrB from Asteroseismology with TESS. Astrophysical Journal, 2021, 921, 122.	4.5	12
67	Sounding stellar cycles with Kepler â€“ III. Comparative analysis of chromospheric, photometric, and asteroseismic variability. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5096-5104.	4.4	11
68	AMP. , 2009, , .		10
69	Signatures of Magnetic Activity: On the Relation between Stellar Properties and p-mode Frequency Variations. Astrophysical Journal, 2019, 883, 65.	4.5	10
70	The Magnetic Future of the Sun. Astrophysical Journal, 2017, 848, 43.	4.5	8
71	Seismic Inference using Genetic Algorithms. Astrophysics and Space Science, 2003, 284, 141-151.	1.4	5
72	The Sunâ€™s magnetic midlife crisis. Physics Today, 2018, 71, 70-71.	0.3	4

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73	The Production Rate and Employment of Ph.D. Astronomers. Publications of the Astronomical Society of the Pacific, 2008, 120, 229-234.	3.1	3
74	Lessons for asteroseismology from white dwarf stars. Journal of Astrophysics and Astronomy, 2005, 26, 273-281.	1.0	2
75	Brightness Fluctuation Spectra of Sun-like Stars. I. The Mid-frequency Continuum. Astrophysical Journal, 2021, 916, 66.	4.5	2
76	The impact of Gaia DR1 on asteroseismic inferences from Kepler. EPJ Web of Conferences, 2017, 152, 05001.	0.3	1
77	Using SONG to probe rapid variability and evolution of starspots. Proceedings of the International Astronomical Union, 2010, 6, 451-454.	0.0	0
78	Unveiling stellar magnetic activity using CoRoT seismic observations. Journal of Physics: Conference Series, 2011, 271, 012045.	0.4	0
79	The inner lives of red giants. Nature, 2011, 471, 580-581.	27.8	0
80	Asteroseismic signatures of magnetic activity variations in solar-type stars. Proceedings of the International Astronomical Union, 2013, 9, 213-216.	0.0	0
81	A Stellar Perspective on the Magnetic Future of the Sun. Proceedings of the International Astronomical Union, 2018, 13, 213-216.	0.0	0
82	White Dwarf Seismology and the 12C(Î±,Î³)16O Rate. , 2003, , 251-254.		0
83	Seismic Inference Using Genetic Algorithms. , 2003, , 141-151.		0
84	The Consequences of Assuming m=0 for Global Model-Fitting. Open Astronomy, 2003, 12, .	0.6	0
85	Seismic inference of 57 stars using full-lengthKeplerdata sets. EPJ Web of Conferences, 2017, 160, 03007.	0.3	0