

Travis S Metcalfe

List of Publications by Year in descending order

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85
papers

6,624
citations

53794

45
h-index

71685

76
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86
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86
docs citations

86
times ranked

4275
citing authors

#	ARTICLE	IF	CITATIONS
1	A 20 Second Cadence View of Solar-type Stars and Their Planets with TESS: Asteroseismology of Solar Analogs and a Recharacterization of ϵ Men c. <i>Astronomical Journal</i> , 2022, 163, 79.	4.7	22
2	The Origin of Weakened Magnetic Braking in Old Solar Analogs. <i>Astrophysical Journal Letters</i> , 2022, 933, L17.	8.3	21
3	Brightness Fluctuation Spectra of Sun-like Stars. I. The Mid-frequency Continuum. <i>Astrophysical Journal</i> , 2021, 916, 66.	4.5	2
4	Magnetic and Rotational Evolution of ϵ CrB from Asteroseismology with TESS. <i>Astrophysical Journal</i> , 2021, 921, 122.	4.5	12
5	TESS Asteroseismology of $\hat{\iota}$ Mensae: Benchmark Ages for a G7 Dwarf and Its M Dwarf Companion. <i>Astrophysical Journal</i> , 2021, 922, 229.	4.5	14
6	Age dating of an early Milky Way merger via asteroseismology of the naked-eye star $\hat{\nu}$ Indi. <i>Nature Astronomy</i> , 2020, 4, 382-389.	10.1	46
7	The Evolution of Rotation and Magnetic Activity in 94 Aqr Aa from Asteroseismology with TESS. <i>Astrophysical Journal</i> , 2020, 900, 154.	4.5	18
8	TESS Asteroseismology of the Known Red-giant Host Stars HD 212771 and HD 203949. <i>Astrophysical Journal</i> , 2019, 885, 31.	4.5	28
9	Surface Rotation and Photometric Activity for <i>Kepler</i> Targets. I. M and K Main-sequence Stars. <i>Astrophysical Journal, Supplement Series</i> , 2019, 244, 21.	7.7	74
10	The Asteroseismic Target List for Solar-like Oscillators Observed in 2 minute Cadence with the Transiting Exoplanet Survey Satellite. <i>Astrophysical Journal, Supplement Series</i> , 2019, 241, 12.	7.7	58
11	A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. <i>Astronomical Journal</i> , 2019, 157, 245.	4.7	72
12	Sounding stellar cycles with Kepler III. Comparative analysis of chromospheric, photometric, and asteroseismic variability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5096-5104.	4.4	11
13	Understanding the Limitations of Gyrochronology for Old Field Stars. <i>Astrophysical Journal</i> , 2019, 871, 39.	4.5	37
14	LBT/PEPSI Spectropolarimetry of a Magnetic Morphology Shift in Old Solar-type Stars*. <i>Astrophysical Journal Letters</i> , 2019, 887, L38.	8.3	17
15	Signatures of Magnetic Activity: On the Relation between Stellar Properties and p-mode Frequency Variations. <i>Astrophysical Journal</i> , 2019, 883, 65.	4.5	10
16	The Influence of Metallicity on Stellar Differential Rotation and Magnetic Activity. <i>Astrophysical Journal</i> , 2018, 852, 46.	4.5	67
17	A Stellar Perspective on the Magnetic Future of the Sun. <i>Proceedings of the International Astronomical Union</i> , 2018, 13, 213-216.	0.0	0
18	The Sun's magnetic midlife crisis. <i>Physics Today</i> , 2018, 71, 70-71.	0.3	4

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19	Magnetic Evolution and the Disappearance of Sun-Like Activity Cycles. <i>Solar Physics</i> , 2017, 292, 1.	2.5	60
20	The Magnetic Future of the Sun. <i>Astrophysical Journal</i> , 2017, 848, 43.	4.5	8
21	Evolution of Co-existing Long and Short Period Stellar Activity Cycles. <i>Astrophysical Journal</i> , 2017, 845, 79.	4.5	63
22	The impact of Gaia DR1 on asteroseismic inferences from Kepler. <i>EPJ Web of Conferences</i> , 2017, 152, 05001.	0.3	1
23	Seismic inference of 57 stars using full-length Kepler data sets. <i>EPJ Web of Conferences</i> , 2017, 160, 03007.	0.3	0
24	STELLAR EVIDENCE THAT THE SOLAR DYNAMO MAY BE IN TRANSITION. <i>Astrophysical Journal Letters</i> , 2016, 826, L2.	8.3	108
25	THE KEPLER-454 SYSTEM: A SMALL, NOT-ROCKY INNER PLANET, A JOVIAN WORLD, AND A DISTANT COMPANION. <i>Astrophysical Journal</i> , 2016, 816, 95.	4.5	55
26	Weakened magnetic braking as the origin of anomalously rapid rotation in old field stars. <i>Nature</i> , 2016, 529, 181-184.	27.8	285
27	SUN-LIKE MAGNETIC CYCLES IN THE RAPIDLY ROTATING YOUNG SOLAR ANALOG HD 30495. <i>Astrophysical Journal</i> , 2015, 812, 12.	4.5	36
28	ASTEROSEISMIC MODELING OF 16 Cyg A & B USING THE COMPLETE <i>KEPLER</i> DATA SET. <i>Astrophysical Journal Letters</i> , 2015, 811, L37.	8.3	61
29	THE APOKASC CATALOG: AN ASTEROSEISMIC AND SPECTROSCOPIC JOINT SURVEY OF TARGETS IN THE <i>KEPLER</i> FIELDS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 215, 19.	7.7	268
30	KEPLER-93b: A TERRESTRIAL WORLD MEASURED TO WITHIN 120 km, AND A TEST CASE FOR A NEW <i>SPITZER</i> OBSERVING MODE. <i>Astrophysical Journal</i> , 2014, 790, 12.	4.5	76
31	ASTEROSEISMIC ESTIMATE OF HELIUM ABUNDANCE OF A SOLAR ANALOG BINARY SYSTEM. <i>Astrophysical Journal</i> , 2014, 790, 138.	4.5	51
32	A sub-Mercury-sized exoplanet. <i>Nature</i> , 2013, 494, 452-454.	27.8	193
33	FUNDAMENTAL PROPERTIES OF <i>KEPLER</i> PLANET-CANDIDATE HOST STARS USING ASTEROSEISMOLOGY. <i>Astrophysical Journal</i> , 2013, 767, 127.	4.5	259
34	Stellar Spin-Orbit Misalignment in a Multiplanet System. <i>Science</i> , 2013, 342, 331-334.	12.6	262
35	Asteroseismic signatures of magnetic activity variations in solar-type stars. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 213-216.	0.0	0
36	KEPLER-68: THREE PLANETS, ONE WITH A DENSITY BETWEEN THAT OF EARTH AND ICE GIANTS. <i>Astrophysical Journal</i> , 2013, 766, 40.	4.5	106

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37	A REVISED EFFECTIVE TEMPERATURE SCALE FOR THE <i>KEPLER</i> INPUT CATALOG. <i>Astrophysical Journal, Supplement Series</i> , 2012, 199, 30.	7.7	269
38	Kepler-36: A Pair of Planets with Neighboring Orbits and Dissimilar Densities. <i>Science</i> , 2012, 337, 556-559.	12.6	335
39	KEPLER-21b: A 1.6<i>R</i>_{Earth} PLANET TRANSITING THE BRIGHT OSCILLATING F SUBGIANT STAR HD 179070. <i>Astrophysical Journal</i> , 2012, 746, 123.	4.5	124
40	Kepler-22b: A 2.4 EARTH-RADIUS PLANET IN THE HABITABLE ZONE OF A SUN-LIKE STAR. <i>Astrophysical Journal</i> , 2012, 745, 120.	4.5	218
41	CALIBRATING CONVECTIVE PROPERTIES OF SOLAR-LIKE STARS IN THE <i>KEPLER</i> FIELD OF VIEW. <i>Astrophysical Journal Letters</i> , 2012, 755, L12.	8.3	80
42	Unveiling stellar magnetic activity using CoRoT seismic observations. <i>Journal of Physics: Conference Series</i> , 2011, 271, 012045.	0.4	0
43	The inner lives of red giants. <i>Nature</i> , 2011, 471, 580-581.	27.8	0
44	Using SONG to probe rapid variability and evolution of starspots. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 451-454.	0.0	0
45	A MULTI-SITE CAMPAIGN TO MEASURE SOLAR-LIKE OSCILLATIONS IN PROCYON. II. MODE FREQUENCIES. <i>Astrophysical Journal</i> , 2010, 713, 935-949.	4.5	78
46	CoRoT Reveals a Magnetic Activity Cycle in a Sun-Like Star. <i>Science</i> , 2010, 329, 1032-1032.	12.6	203
47	Kepler Asteroseismology Program: Introduction and First Results. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 131-143.	3.1	370
48	A STELLAR MODEL-FITTING PIPELINE FOR ASTEROSEISMIC DATA FROM THE<i>KEPLER</i> MISSION. <i>Astrophysical Journal</i> , 2009, 699, 373-382.	4.5	89
49	AMP. , 2009, , .		10
50	Whole Earth Telescope observations of the hot helium atmosphere pulsating white dwarf EC&20058&sim5234. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 387, 137-152.	4.4	20
51	The Production Rate and Employment of Ph.D. Astronomers. <i>Publications of the Astronomical Society of the Pacific</i> , 2008, 120, 229-234.	3.1	3
52	A Multisite Campaign to Measure SolarÊlike Oscillations in Procyon. I. Observations, Data Reduction, and Slow Variations. <i>Astrophysical Journal</i> , 2008, 687, 1180-1190.	4.5	128
53	The Complementary Roles of Interferometry and Asteroseismology in Determining the Mass of SolarÊtype Stars. <i>Astrophysical Journal</i> , 2007, 659, 616-625.	4.5	59
54	On the Structure and Properties of Differentially Rotating, MainÊsequence Stars in the 1Ê2MÊRange. <i>Astrophysical Journal</i> , 2007, 663, 560-572.	4.5	57

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55	Asteroseismic Signatures of Small Convective Cores. <i>Astrophysical Journal</i> , 2007, 666, 413-422.	4.5	57
56	The White Dwarf Luminosity Function from Sloan Digital Sky Survey Imaging Data. <i>Astronomical Journal</i> , 2006, 131, 571-581.	4.7	154
57	The Citation Impact of Digital Preprint Archives for Solar Physics Papers. <i>Solar Physics</i> , 2006, 239, 549-553.	2.5	36
58	Cool White Dwarfs in the Sloan Digital Sky Survey. <i>Astronomical Journal</i> , 2006, 131, 582-599.	4.7	86
59	DQ Herculis in Profile: Whole Earth Telescope Observations and Smoothed Particle Hydrodynamics Simulations of an Edge-on Cataclysmic Variable System. <i>Astrophysical Journal</i> , 2005, 634, 570-584.	4.5	14
60	Pushing the ground-based limit: 14- $\frac{1}{4}$ mag photometric precision with the definitive Whole Earth Telescope asteroseismic data set for the rapidly oscillating Ap star HR 1217. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 358, 651-664.	4.4	59
61	Lessons for asteroseismology from white dwarf stars. <i>Journal of Astrophysics and Astronomy</i> , 2005, 26, 273-281.	1.0	2
62	Testing White Dwarf Crystallization Theory with Asteroseismology of the Massive Pulsating DA Star BPM 37093. <i>Astrophysical Journal</i> , 2004, 605, L133-L136.	4.5	103
63	A Strong Test of Electroweak Theory Using Pulsating DB White Dwarf Stars as Plasmon Neutrino Detectors. <i>Astrophysical Journal</i> , 2004, 602, L109-L112.	4.5	105
64	Seismic Inference using Genetic Algorithms. <i>Astrophysics and Space Science</i> , 2003, 284, 141-151.	1.4	5
65	Stellar structure modeling using a parallel genetic algorithm for objective global optimization. <i>Journal of Computational Physics</i> , 2003, 185, 176-193.	3.8	93
66	Amplitude and frequency variability of the pulsating DB white dwarf stars KUV 05134+2605 and PG 1654+160 observed with the Whole Earth Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 340, 1031-1038.	4.4	17
67	The core/envelope symmetry in pulsating stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 344, 657-664.	4.4	59
68	A Whole Earth Telescope campaign on the pulsating subdwarf B binary system PG 1336+018 (NY Vir). <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 345, 834-846.	4.4	46
69	Probing the core and envelope structure of DBV white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 344, L88-L92.	4.4	24
70	Constraining the Evolution of ZZ Ceti. <i>Astrophysical Journal</i> , 2003, 594, 961-970.	4.5	37
71	White Dwarf Asteroseismology and the $12C(1\pm, 1\pm)16O$ Rate. <i>Astrophysical Journal</i> , 2003, 587, L43-L46.	4.5	52
72	White Dwarf Seismology and the $12C(1\pm, 1\pm)16O$ Rate. , 2003, , 251-254.		0

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73	Seismic Inference Using Genetic Algorithms. , 2003, , 141-151.		0
74	The Consequences of Assuming $m=0$ for Global Model-Fitting. Open Astronomy, 2003, 12, .	0.6	0
75	Measuring $\log C(\hat{\mu}, \hat{\sigma})$ from White Dwarf Asteroseismology. Astrophysical Journal, 2002, 573, 803-811.	4.5	67
76	Debiased Orbital and Absolute Magnitude Distribution of the Near-Earth Objects. Icarus, 2002, 156, 399-433.	2.5	605
77	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
78	The Effect of ^3He Diffusion on the Pulsational Spectra of DBV Models. Astrophysical Journal, 2001, 548, L53-L56.	4.5	15
79	Preliminary Constraints on $\log C(\hat{\mu}, \hat{\sigma})$ from White Dwarf Seismology. Astrophysical Journal, 2001, 557, 1021-1027.	4.5	54
80	Genetic-Algorithm-based Asteroseismological Analysis of the DBV White Dwarf GD 358. Astrophysical Journal, 2000, 545, 974-981.	4.5	48
81	Evolutionary Timescale of the Pulsating White Dwarf G117-B15A: The Most Stable Optical Clock Known. Astrophysical Journal, 2000, 534, L185-L188.	4.5	72
82	Genetic-Algorithm-based Light-Curve Optimization Applied to Observations of the W Ursae Majoris Star BH Cassiopeiae. Astronomical Journal, 1999, 117, 2503-2510.	4.7	28
83	An Unusual Brightening Of Eta Carinae. Astronomical Journal, 1999, 118, 1777-1783.	4.7	66
84	The Orbital and Absolute Magnitude Distributions of Main Belt Asteroids. Icarus, 1998, 131, 245-260.	2.5	142
85	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