Sarbani Basu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5345454/publications.pdf

Version: 2024-02-01

226	18,122	15466 65	13338 130
papers	citations	h-index	g-index

232	232	232	10405
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	THE ELEVENTH AND TWELFTH DATA RELEASES OF THE SLOAN DIGITAL SKY SURVEY: FINAL DATA FROM SDSS-III. Astrophysical Journal, Supplement Series, 2015, 219, 12.	3.0	1,877
2	The Apache Point Observatory Galactic Evolution Experiment (APOGEE). Astronomical Journal, 2017, 154, 94.	1.9	1,065
3	The 16th Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra. Astrophysical Journal, Supplement Series, 2020, 249, 3.	3.0	826
4	Solar Models: Current Epoch and Time Dependences, Neutrinos, and Helioseismological Properties. Astrophysical Journal, 2001, 555, 990-1012.	1.6	785
5	New Solar Opacities, Abundances, Helioseismology, and Neutrino Fluxes. Astrophysical Journal, 2005, 621, L85-L88.	1.6	490
6	REVISED STELLAR PROPERTIES OF KEPLER TARGETS FOR THE QUARTER 1-16 TRANSIT DETECTION RUN. Astrophysical Journal, Supplement Series, 2014, 211, 2.	3.0	418
7	MASSES, RADII, AND ORBITS OF SMALL KEPLER PLANETS: THE TRANSITION FROM GASEOUS TO ROCKY PLANETS. Astrophysical Journal, Supplement Series, 2014, 210, 20.	3.0	418
8	The 13th Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey Mapping Nearby Galaxies at Apache Point Observatory. Astrophysical Journal, Supplement Series, 2017, 233, 25.	3.0	406
9	Kepler Asteroseismology Program: Introduction and First Results. Publications of the Astronomical Society of the Pacific, 2010, 122, 131-143.	1.0	370
10	How uncertain are solar neutrino predictions?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 433, 1-8.	1.5	347
11	Kepler-36: A Pair of Planets with Neighboring Orbits and Dissimilar Densities. Science, 2012, 337, 556-559.	6.0	335
12	Helioseismology and solar abundances. Physics Reports, 2008, 457, 217-283.	10.3	317
13	NEW SOLAR COMPOSITION: THE PROBLEM WITH SOLAR MODELS REVISITED. Astrophysical Journal, 2009, 705, L123-L127.	1.6	297
14	THE APOKASC CATALOG: AN ASTEROSEISMIC AND SPECTROSCOPIC JOINT SURVEY OF TARGETS IN THE KEPLER FIELDS. Astrophysical Journal, Supplement Series, 2014, 215, 19.	3.0	268
15	Helioseismological Implications of Recent Solar Abundance Determinations. Astrophysical Journal, 2005, 618, 1049-1056.	1.6	263
16	Stellar Spin-Orbit Misalignment in a Multiplanet System. Science, 2013, 342, 331-334.	6.0	262
17	FUNDAMENTAL PROPERTIES OFKEPLERPLANET-CANDIDATE HOST STARS USING ASTEROSEISMOLOGY. Astrophysical Journal, 2013, 767, 127.	1.6	259
18	STRUCTURE AND ROTATION OF THE SOLAR INTERIOR: INITIAL RESULTS FROM THE MDI MEDIUM-L PROGRAM. Solar Physics, 1997, 170, 43-61.	1.0	239

#	Article	IF	Citations
19	A New Generation of Standard Solar Models. Astrophysical Journal, 2017, 835, 202.	1.6	239
20	Constraining Solar Abundances Using Helioseismology. Astrophysical Journal, 2004, 606, L85-L88.	1.6	237
21	Standing on the Shoulders of Dwarfs: the Kepler Asteroseismic LEGACY Sample. II. Radii, Masses, and Ages. Astrophysical Journal, 2017, 835, 173.	1.6	223
22	Kepler-22b: A 2.4 EARTH-RADIUS PLANET IN THE HABITABLE ZONE OF A SUN-LIKE STAR. Astrophysical Journal, 2012, 745, 120.	1.6	218
23	10,000 Standard Solar Models: A Monte Carlo Simulation. Astrophysical Journal, Supplement Series, 2006, 165, 400-431.	3.0	213
24	Standing on the Shoulders of Dwarfs: the Kepler Asteroseismic LEGACY Sample. I. Oscillation Mode Parameters. Astrophysical Journal, 2017, 835, 172.	1.6	195
25	A sub-Mercury-sized exoplanet. Nature, 2013, 494, 452-454.	13.7	193
26	The Second APOKASC Catalog: The Empirical Approach. Astrophysical Journal, Supplement Series, 2018, 239, 32.	3.0	183
27	THE APOGEE RED-CLUMP CATALOG: PRECISE DISTANCES, VELOCITIES, AND HIGH-RESOLUTION ELEMENTAL ABUNDANCES OVER A LARGE AREA OF THE MILKY WAY'S DISK. Astrophysical Journal, 2014, 790, 127.	1.6	181
28	Are Standard Solar Models Reliable?. Physical Review Letters, 1997, 78, 171-174.	2.9	171
29	Changes in Solar Dynamics from 1995 to 2002. Astrophysical Journal, 2003, 585, 553-565.	1.6	155
30	Bayesian distances and extinctions for giants observed by Kepler and APOGEE. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2758-2776.	1.6	148
31	AN IN-DEPTH STUDY OF GRID-BASED ASTEROSEISMIC ANALYSIS. Astrophysical Journal, 2011, 730, 63.	1.6	142
32	Young Î±-enriched giant stars in the solar neighbourhood. Monthly Notices of the Royal Astronomical Society, 2015, 451, 2230-2243.	1.6	133
33	How Much Do Helioseismological Inferences Depend on the Assumed Reference Model?. Astrophysical Journal, 2000, 529, 1084-1100.	1.6	130
34	ASTEROSEISMOLOGY OF THE OPEN CLUSTERS NGC 6791, NGC 6811, AND NGC 6819 FROM 19 MONTHS OFKEPLERPHOTOMETRY. Astrophysical Journal, 2012, 757, 190.	1.6	129
35	What Is the Neon Abundance of the Sun?. Astrophysical Journal, 2005, 631, 1281-1285.	1.6	124
36	KEPLER-21b: A 1.6R_{Earth}PLANET TRANSITING THE BRIGHT OSCILLATING F SUBGIANT STAR HD 179070. Astrophysical Journal, 2012, 746, 123.	1.6	124

#	Article	IF	Citations
37	FRESH INSIGHTS ON THE STRUCTURE OF THE SOLAR CORE. Astrophysical Journal, 2009, 699, 1403-1417.	1.6	122
38	The First APOKASC Catalog of Kepler Dwarf and Subgiant Stars. Astrophysical Journal, Supplement Series, 2017, 233, 23.	3.0	121
39	SOUNDING OPEN CLUSTERS: ASTEROSEISMIC CONSTRAINTS FROM KEPLER ON THE PROPERTIES OF NGC 6791 AND NGC 6819. Astrophysical Journal Letters, 2011, 729, L10.	3.0	120
40	DETERMINATION OF STELLAR RADII FROM ASTEROSEISMIC DATA. Astrophysical Journal, 2010, 710, 1596-1609.	1.6	117
41	The Discrepancy between Solar Abundances and Helioseismology. Astrophysical Journal, 2005, 620, L129-L132.	1.6	112
42	A SEISMIC SIGNATURE OF A SECOND DYNAMO?. Astrophysical Journal Letters, 2010, 718, L19-L22.	3.0	110
43	Stellar diameters and temperatures â€“ VI. High angular resolution measurements of the transiting exoplanet host stars HD 189733 and HD 209458 and implications for models of cool dwarfs. Monthly Notices of the Royal Astronomical Society, 2015, 447, 846-857.	1.6	108
44	KEPLER-68: THREE PLANETS, ONE WITH A DENSITY BETWEEN THAT OF EARTH AND ICE GIANTS. Astrophysical Journal, 2013, 766, 40.	1.6	106
45	Temporal Variations of the Rotation Rate in the Solar Interior. Astrophysical Journal, 2000, 541, 442-448.	1.6	104
46	Global seismology of the Sun. Living Reviews in Solar Physics, 2016, 13, 1.	7.8	103
47	Solar internal sound speed as inferred from combined BiSON and LOWL oscillation frequencies. Monthly Notices of the Royal Astronomical Society, 1997, 292, 243-251.	1.6	101
48	Helioseismic measurement of the extent of overshoot below the solar convection zone. Monthly Notices of the Royal Astronomical Society, 1994, 267, 209-224.	1.6	96
49	Ring Diagram Analysis of Nearâ€Surface Flows in the Sun. Astrophysical Journal, 1999, 512, 458-470.	1.6	96
50	Ringâ€Diagram Analysis of the Structure of Solar Active Regions. Astrophysical Journal, 2004, 610, 1157-1168.	1.6	91
51	AN ASTEROSEISMIC MEMBERSHIP STUDY OF THE RED GIANTS IN THREE OPEN CLUSTERS OBSERVED BYKEPLER: NGC 6791, NGC 6819, AND NGC 6811. Astrophysical Journal, 2011, 739, 13.	1.6	88
52	Solar internal rotation rate and the latitudinal variation of the tachocline. Monthly Notices of the Royal Astronomical Society, 1998, 298, 543-556.	1.6	86
53	TESTING THE ASTEROSEISMIC MASS SCALE USING METAL-POOR STARS CHARACTERIZED WITH APOGEE ANDKEPLER. Astrophysical Journal Letters, 2014, 785, L28.	3.0	84
54	OSCILLATING RED GIANTS OBSERVED DURING CAMPAIGN 1 OF THE KEPLER K2 MISSION: NEW PROSPECTS FOR GALACTIC ARCHAEOLOGY. Astrophysical Journal Letters, 2015, 809, L3.	3.0	84

#	Article	IF	Citations
55	Determining Solar Abundances Using Helioseismology. Astrophysical Journal, 2006, 644, 1292-1298.	1.6	83
56	CHARACTERISTICS OF SOLAR MERIDIONAL FLOWS DURING SOLAR CYCLE 23. Astrophysical Journal, 2010, 717, 488-495.	1.6	83
57	CALIBRATING CONVECTIVE PROPERTIES OF SOLAR-LIKE STARS IN THE KEPLER FIELD OF VIEW. Astrophysical Journal Letters, 2012, 755, L12.	3.0	80
58	The Correlation between Mixing Length and Metallicity on the Giant Branch: Implications for Ages in the Gaia Era. Astrophysical Journal, 2017, 840, 17.	1.6	80
59	Temporal Variations of the Solar Rotation Rate at High Latitudes. Astrophysical Journal, 2001, 559, L67-L70.	1.6	77
60	KEPLER-93b: A TERRESTRIAL WORLD MEASURED TO WITHIN 120 km, AND A TEST CASE FOR A NEWSPITZEROBSERVING MODE. Astrophysical Journal, 2014, 790, 12.	1.6	76
61	A study of possible temporal and latitudinal variations in the properties of the solar tachocline. Monthly Notices of the Royal Astronomical Society, 2001, 324, 498-508.	1.6	74
62	Asteroseismic determination of helium abundance in stellar envelopes. Monthly Notices of the Royal Astronomical Society, 2004, 350, 277-286.	1.6	74
63	Solar Abundances and Helioseismology: Fineâ€Structure Spacings and Separation Ratios of Lowâ€Degreepâ€Modes. Astrophysical Journal, 2007, 655, 660-671.	1.6	74
64	A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. Astronomical Journal, 2019, 157, 245.	1.9	72
65	Significantly improving stellar mass and radius estimates: a new reference function for the Î”Î½ scaling relation. Monthly Notices of the Royal Astronomical Society, 2016, 460, 4277-4281.	1.6	71
66	KEPLER-432: A RED GIANT INTERACTING WITH ONE OF ITS TWO LONG-PERIOD GIANT PLANETS. Astrophysical Journal, 2015, 803, 49.	1.6	70
67	Solar Heavyâ€Element Abundance: Constraints from Frequency Separation Ratios of Lowâ€Degreepâ€Modes. Astrophysical Journal, 2007, 670, 872-884.	1.6	67
68	DETERMINING THE INITIAL HELIUM ABUNDANCE OF THE SUN. Astrophysical Journal, 2010, 719, 865-872.	1.6	66
69	FUNDAMENTAL PARAMETERS OF MAIN-SEQUENCE STARS IN AN INSTANT WITH MACHINE LEARNING. Astrophysical Journal, 2016, 830, 31.	1.6	66
70	DETECTION OF SOLAR-LIKE OSCILLATIONS FROM KEPLER PHOTOMETRY OF THE OPEN CLUSTER NGC 6819. Astrophysical Journal Letters, 2010, 713, L182-L186.	3.0	65
71	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.	3.0	58
72	Solar Rotation Rate and Its Gradients During Cycle 23. Astrophysical Journal, 2008, 681, 680-692.	1.6	58

#	Article	IF	Citations
73	EFFECT OF UNCERTAINTIES IN STELLAR MODEL PARAMETERS ON ESTIMATED MASSES AND RADII OF SINGLE STARS. Astrophysical Journal, 2012, 746, 76.	1.6	55
74	THE KEPLER-454 SYSTEM: A SMALL, NOT-ROCKY INNER PLANET, A JOVIAN WORLD, AND A DISTANT COMPANION. Astrophysical Journal, 2016, 816, 95.	1.6	55
75	ACCURATE GRAVITIES OF F, G, AND K STARS FROM HIGH RESOLUTION SPECTRA WITHOUT EXTERNAL CONSTRAINTS. Astrophysical Journal, 2015, 805, 126.	1.6	54
76	Helioseismic Analysis of the Hydrogen Partition Function in the Solar Interior. Astrophysical Journal, 1999, 518, 985-993.	1.6	54
77	Ring Diagram Analysis of the Characteristics of Solar Oscillation Modes in Active Regions. Astrophysical Journal, 2001, 563, 410-418.	1.6	53
78	AMPLITUDES OF SOLAR-LIKE OSCILLATIONS: CONSTRAINTS FROM RED GIANTS IN OPEN CLUSTERS OBSERVED BY KEPLER. Astrophysical Journal Letters, 2011, 737, L10.	3.0	53
79	THINNING OF THE SUN'S MAGNETIC LAYER: THE PECULIAR SOLAR MINIMUM COULD HAVE BEEN PREDICTED. Astrophysical Journal, 2012, 758, 43.	1.6	52
80	Solar Cycle Related Changes at the Base of the Convection Zone. Astrophysical Journal, 2008, 686, 1349-1361.	1.6	51
81	ASTEROSEISMIC ESTIMATE OF HELIUM ABUNDANCE OF A SOLAR ANALOG BINARY SYSTEM. Astrophysical Journal, 2014, 790, 138.	1.6	51
82	Changing the Î½_{max} Scaling Relation: The Need for a Mean Molecular Weight Term. Astrophysical Journal, 2017, 843, 11.	1.6	51
83	A new method for the asteroseismic determination of the evolutionary state of red-giant stars. Monthly Notices of the Royal Astronomical Society, 2017, 466, 3344-3352.	1.6	50
84	Measuring the helium abundance in the solar envelope: The role of the equation of state. Astrophysical Journal, 1994, 426, 801.	1.6	49
85	Seismic Test of Solar Models, Solar Neutrinos, and Implications for Metalâ€rich Accretion. Astrophysical Journal, 2002, 576, 1075-1084.	1.6	48
86	Investigating the Metallicityâ€“Mixing-length Relation. Astrophysical Journal, 2018, 858, 28.	1.6	46
87	Age dating of an early Milky Way merger via asteroseismology of the naked-eye star Î½ Indi. Nature Astronomy, 2020, 4, 382-389.	4.2	46
88	Does Solar Structure Vary with Solar Magnetic Activity?. Astrophysical Journal, 2004, 617, L155-L158.	1.6	43
89	Helium abundance in a sample of cool stars: measurements from asteroseismology. Monthly Notices of the Royal Astronomical Society, 2019, 483, 4678-4694.	1.6	42
90	Seismic Study of the Chemical Composition of the Solar Convection Zone. Astrophysical Journal, 2007, 668, 603-610.	1.6	41

#	Article	IF	Citations
91	The Nonhomologous Nature of Solar Diameter Variations. Astrophysical Journal, 2005, 632, L147-L150.	1.6	39
92	Seismic Measurement of the Locations of the Base of Convection Zone and Helium Ionization Zone for Stars in the Kepler Seismic LEGACY Sample. Astrophysical Journal, 2017, 837, 47.	1.6	39
93	The Sun's Hydrostatic Structure from LOWL Data. Astrophysical Journal, 1996, 460, 1064.	1.6	39
94	Largeâ€Scale Flows in the Solar Interior: Effect of Asymmetry in Peak Profiles. Astrophysical Journal, 1999, 525, 517-523.	1.6	38
95	Detection and Characterization of Oscillating Red Giants: First Results from the TESS Satellite. Astrophysical Journal Letters, 2020, 889, L34.	3.0	37
96	Asteroseismic diagnostics of stellar convective cores. Monthly Notices of the Royal Astronomical Society, 2006, 372, 949-958.	1.6	33
97	Line Asymmetry of Solarpâ€Modes: Properties of Acoustic Sources. Astrophysical Journal, 1999, 519, 396-399.	1.6	33
98	TOI-257b (HD 19916b): a warm sub-saturn orbiting an evolved F-type star. Monthly Notices of the Royal Astronomical Society, 2021, 502, 3704-3722.	1.6	33
99	Solar Cycle Variation in Solar f-Mode Frequencies and Radius. Solar Physics, 2000, 192, 459-468.	1.0	32
100	Probing the Subsurface Structures of Active Regions with Ring-Diagram Analysis. Solar Physics, 2008, 251, 439-451.	1.0	31
101	Multiplicity-corrected mass function of main-sequence stars in the solar neighborhood. Astrophysical Journal, 1992, 393, 373.	1.6	31
102	Highâ€Amplitude Î´ Scuti and SX Phoenicis Stars: The Effects of Chemical Composition on Pulsations and the Periodâ€Luminosity Relation. Astrophysical Journal, 2002, 576, 963-975.	1.6	31
103	Prospects for Galactic and stellar astrophysics with asteroseismology of giant stars in the TESS continuous viewing zones and beyond. Monthly Notices of the Royal Astronomical Society, 2021, 502, 1947-1966.	1.6	30
104	Line Asymmetry of Solarpâ€Modes: Reversal of Asymmetry in Intensity Power Spectra. Astrophysical Journal, 1999, 519, 389-395.	1.6	30
105	Model-independent Measurement of Internal Stellar Structure in 16 Cygni A and B. Astrophysical Journal, 2017, 851, 80.	1.6	29
106	TESS Asteroseismology of the Known Red-giant Host Stars HD 212771 and HD 203949. Astrophysical Journal, 2019, 885, 31.	1.6	28
107	VARIATION OF STELLAR ENVELOPE CONVECTION AND OVERSHOOT WITH METALLICITY. Astrophysical Journal, 2013, 767, 78.	1.6	27
108	Perspectives in Global Helioseismology and the Road Ahead. Solar Physics, 2008, 251, 53-75.	1.0	26

#	Article	IF	Citations
109	SOLAR ROTATION RATE DURING THE CYCLE 24 MINIMUM IN ACTIVITY. Astrophysical Journal, 2010, 720, 494-502.	1.6	26
110	A THEORETICAL STUDY OF ACOUSTIC GLITCHES IN LOW-MASS MAIN-SEQUENCE STARS. Astrophysical Journal, 2014, 794, 114.	1.6	25
111	Asteroseismic Properties of Solar-type Stars Observed with the NASAK2Mission: Results from Campaigns 1â€“3 and Prospects for Future Observations. Publications of the Astronomical Society of the Pacific, 2016, 128, 124204.	1.0	24
112	On the Statistical Properties of the Lower Main Sequence. Astrophysical Journal, 2017, 839, 116.	1.6	24
113	The Helium Abundance of NGC 6791 from Modeling of Stellar Oscillations. Astrophysical Journal, 2019, 874, 180.	1.6	24
114	SOLAR MAGNETIC FIELD SIGNATURES IN HELIOSEISMIC SPLITTING COEFFICIENTS. Astrophysical Journal, 2009, 705, 1704-1713.	1.6	23
115	REVISITING THE SOLAR TACHOCLINE: AVERAGE PROPERTIES AND TEMPORAL VARIATIONS. Astrophysical Journal Letters, 2011, 735, L45.	3.0	23
116	MODELING THE ASTEROSEISMIC SURFACE TERM ACROSS THE HR DIAGRAM. Astrophysical Journal, 2015, 808, 123.	1.6	23
117	EVOLUTION OF NEAR-SURFACE FLOWS INFERRED FROM HIGH-RESOLUTION RING-DIAGRAM ANALYSIS. Astrophysical Journal, 2015, 807, 125.	1.6	22
118	Implications of solar wind measurements for solar models and composition. Monthly Notices of the Royal Astronomical Society, 2016, 463, 2-9.	1.6	22
119	Convective boundary mixing in low- and intermediate-mass stars â€“ I. Core properties from pressure-mode asteroseismology. Monthly Notices of the Royal Astronomical Society, 2020, 493, 4987-5004.	1.6	22
120	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.	1.9	22
121	Seismology of the solar convection zone. Journal of Astrophysics and Astronomy, 1994, 15, 143-156.	0.4	21
122	Highâ€Frequency and Highâ€Wavenumber Solar Oscillations. Astrophysical Journal, 1999, 519, 400-406.	1.6	21
123	Possible solar cycle variations in the convection zone. , 2000, 192, 449-458.		21
124	Estimating the Ultraviolet Emission of M Dwarfs with Exoplanets from Ca ii and HÎ±. Astronomical Journal, 2020, 160, 269.	1.9	21
125	Semianalytic Expressions for the Isolation and Coupling of Mixed Modes. Astrophysical Journal, 2020, 898, 127.	1.6	21
126	THE EFFECT OF METALLICITY-DEPENDENT T -Ï„ RELATIONS ON CALIBRATED STELLAR MODELS. Astrophysical Journal Letters, 2014, 785, L13.	3.0	20

#	Article	IF	Citations
127	The potential of solar high-degree modes for structure inversion. Solar Physics, 2000, 193, 345-356.	1.0	19
128	The peculiar solar cycle 24 â€“ where do we stand?. Journal of Physics: Conference Series, 2013, 440, 012001.	0.3	19
129	Understanding the Internal Chemical Composition and Physical Processes of the Solar Interior. Space Science Reviews, 2015, 196, 49-77.	3.7	19
130	Mitigating the mass dependence in the Î”Î½ scaling relation of red giant stars. Monthly Notices of the Royal Astronomical Society, 2017, 470, 2069-2078.	1.6	18
131	The Evolution of Rotation and Magnetic Activity in 94 Aqr Aa from Asteroseismology with TESS. Astrophysical Journal, 2020, 900, 154.	1.6	18
132	Structure of the Nearâ€Surface Layers of the Sun: Asphericity and Time Variation. Astrophysical Journal, 2007, 654, 1146-1165.	1.6	17
133	Asteroseismology of the Hyades with K2: first detection of main-sequence solar-like oscillations in an open cluster. Monthly Notices of the Royal Astronomical Society, 2016, 463, 2600-2611.	1.6	17
134	Stellar Inversions. Astrophysics and Space Science, 2003, 284, 153-164.	0.5	16
135	Solar Cycle Variations of Large-Scale Flows in the sun. , 2000, 192, 469-480.		15
136	Flare-Induced Excitation of Solar p modes. Solar Physics, 2003, 218, 151-172.	1.0	15
137	Revisiting the Issue of Solar Abundances. Journal of Physics: Conference Series, 2013, 440, 012017.	0.3	15
138	COMPARING THE EFFECT OF RADIATIVE TRANSFER SCHEMES ON CONVECTION SIMULATIONS. Astrophysical Journal, 2012, 759, 120.	1.6	14
139	TESS Asteroseismic Analysis of the Known Exoplanet Host Star HD 222076. Astrophysical Journal, 2020, 896, 65.	1.6	14
140	Changes in Solar Rotation over Two Solar Cycles. Astrophysical Journal, 2019, 883, 93.	1.6	14
141	TESS Asteroseismology of Î± Mensae: Benchmark Ages for a G7 Dwarf and Its M Dwarf Companion. Astrophysical Journal, 2021, 922, 229.	1.6	14
142	Are recent solar heavy element abundances consistent with helioseismology?. Journal of Physics: Conference Series, 2011, 271, 012034.	0.3	13
143	The Robustness of Asteroseismic Estimates of Global Stellar Parameters to Surface Term Corrections. Astrophysical Journal, 2018, 869, 8.	1.6	13
144	Testing Stellar Evolution with Asteroseismic Inversions of a Main-sequence Star Harboring a Small Convective Core. Astrophysical Journal, 2019, 885, 143.	1.6	13

#	Article	IF	Citations
145	PLATO hare-and-hounds exercise: asteroseismic model fitting of main-sequence solar-like pulsators. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5864-5885.	1.6	13
146	Seismological Analysis of the Stars Î³ Serpentis and Î¹ Leonis: Stellar Parameters and Evolution. Astrophysical Journal, 2008, 673, 1093-1105.	1.6	12
147	Are short-term variations in solar oscillation frequencies the signature of a second solar dynamo?. Journal of Physics: Conference Series, 2011, 271, 012025.	0.3	12
148	HELIUM-ABUNDANCE AND OTHER COMPOSITION EFFECTS ON THE PROPERTIES OF STELLAR SURFACE CONVECTION IN SOLAR-LIKE MAIN-SEQUENCE STARS. Astrophysical Journal, 2013, 778, 117.	1.6	12
149	Determining the Best Method of Calculating the Large Frequency Separation For Stellar Models. Astrophysical Journal, 2019, 879, 33.	1.6	12
150	Magnetic and Rotational Evolution of Ï•CrB from Asteroseismology with TESS. Astrophysical Journal, 2021, 921, 122.	1.6	12
151	Helium abundance in the solar envelope. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	11
152	Asteroseismology of the Multiplanet System K2-93. Astronomical Journal, 2019, 158, 248.	1.9	11
153	Does the tachocline show solar cycle related changes?. Solar Physics, 2000, 192, 481-486.	1.0	10
154	Explaining Deviations from the Scaling Relationship of the Large Frequency Separation. Astrophysical Journal, 2019, 870, 41.	1.6	10
155	Hierarchically modelling Kepler dwarfs and subgiants to improve inference of stellar properties with asteroseismology. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2427-2446.	1.6	10
156	Effect of Asymmetry in Peak Profiles on Solar Oscillation Frequencies. Astrophysical Journal, 2000, 531, 1088-1093.	1.6	10
157	Asteroseismology of Î´ Scuti Stars: A Parameter Study and Application to Seismology of FG Virginis. Astrophysical Journal, 2001, 563, 999-1012.	1.6	10
158	Examining the Relationship Between Convective Core Overshoot and Stellar Properties Using Asteroseismology. Astrophysical Journal, 2020, 904, 22.	1.6	10
159	Localized Helioseismic Constraints on Solar Structure. Astrophysical Journal, 1997, 485, L91-L94.	1.6	9
160	Source Depth for Solar [CLC][ITAL]p[/ITAL][/CLC]-Modes. Astrophysical Journal, 2000, 545, L65-L68.	1.6	9
161	Helioseismology as a diagnostic of the solar interior. Astrophysics and Space Science, 2010, 328, 43-50.	0.5	9
162	Improved Calibration of the Radii of Cool Stars Based on 3D Simulations of Convection: Implications for the Solar Model. Astrophysical Journal, 2018, 869, 135.	1.6	9

#	Article	IF	Citations
163	Solar cycle variation of Î½max in helioseismic data and its implications for asteroseismology. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 493, L49-L53.	1.2	9
164	Differential Modeling Systematics across the HR Diagram from Asteroseismic Surface Corrections. Astrophysical Journal, 2021, 906, 54.	1.6	9
165	Impact of magnetic activity on inferred stellar properties of main-sequence Sun-like stars. Monthly Notices of the Royal Astronomical Society, 2021, 502, 5808-5820.	1.6	9
166	Asteroseismic Inference of the Central Structure in a Subgiant Star. Astrophysical Journal, 2021, 915, 100.	1.6	9
167	TWO-DIMENSIONAL STELLAR EVOLUTION CODE INCLUDING ARBITRARY MAGNETIC FIELDS. II. PRECISION IMPROVEMENT AND INCLUSION OF TURBULENCE AND ROTATION. Astrophysical Journal, Supplement Series, 2009, 182, 584-607.	3.0	8
168	Contrasting the solar rotation rate of cycles 23 and 24. Journal of Physics: Conference Series, 2013, 440, 012018.	0.3	8
169	Inferences on Stellar Activity and Stellar Cycles from Asteroseismology. Space Science Reviews, 2014, 186, 437-456.	3.7	8
170	Mixed Modes and Asteroseismic Surface Effects. I. Analytic Treatment. Astrophysical Journal, 2021, 920, 8.	1.6	8
171	Robust asteroseismic properties of the bright planet host HDÂ38529. Monthly Notices of the Royal Astronomical Society, 2020, 499, 6084-6093.	1.6	8
172	Unveiling the Structure and Dynamics of Red Giants With Asteroseismology. Frontiers in Astronomy and Space Sciences, 2020, 7, .	1.1	7
173	Asteroseismic sensitivity to internal rotation along the red-giant branch. Astronomy and Astrophysics, 2020, 639, A98.	2.1	7
174	Evolutionary states of red-giant stars from grid-based modelling. EPJ Web of Conferences, 2017, 160, 04006.	0.1	7
175	ENTROPY IN ADIABATIC REGIONS OF CONVECTION SIMULATIONS. Astrophysical Journal Letters, 2016, 822, L17.	3.0	7
176	Analysis of the characteristics of solar oscillation modes in active regions. Journal of Physics: Conference Series, 2008, 118, 012084.	0.3	6
177	Interpreting Helioseismic Structure Inversion Results ofÂSolar Active Regions. Solar Physics, 2009, 257, 37-60.	1.0	6
178	The thermal structure of sunspots from ring diagram analysis. Journal of Physics: Conference Series, 2011, 271, 012006.	0.3	6
179	Frequency dependence of the large frequency separation of solar-like oscillators: influence of the helium second-ionization zone. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 418, L119-L123.	1.2	6
180	Structural and Evolutionary Diagnostics from Asteroseismic Phase Functions. Astrophysical Journal, 2019, 885, 26.	1.6	6

#	Article	IF	Citations
181	The Seismic Sun. , 1997, , 137-150.		6
182	Mixed Modes and Asteroseismic Surface Effects. II. Subgiant Systematics. Astrophysical Journal, 2021, 922, 18.	1.6	6
183	Determining stellar radii using large separations: anÂerrorÂanalysis. Astrophysics and Space Science, 2010, 328, 79-82.	0.5	5
184	EVIDENCE FOR SOLAR FREQUENCY DEPENDENCE ON SUNSPOT TYPE. Astrophysical Journal Letters, 2011, 733, L5.	3.0	5
185	Sensitivity of low-degree solar p modes to active and ephemeral regions: frequency shifts back to the Maunder minimum. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 489, L86-L90.	1.2	5
186	Effect of Turbulent Pressure on Solar Oscillation Frequencies. Astrophysics and Space Science Library, 1997, , 51-54.	1.0	5
187	Changes in the Near-surface Shear Layer of the Sun. Astrophysical Journal, 2022, 924, 19.	1.6	5
188	Mixed-mode Asteroseismology of Red Giant Stars Through the Luminosity Bump. Astrophysical Journal, 2022, 931, 116.	1.6	5
189	Distribution of metals in dwars stars in the solar neighbourhood. Astrophysics and Space Science, 1990, 168, 317-330.	0.5	4
190	Stellar Parameters in an Instant with Machine Learning. EPJ Web of Conferences, 2017, 160, 05003.	0.1	4
191	Asteroseismology of KIC 8263801: Is It a Member of NGC 6866 and a Red Clump Star?. Astrophysical Journal, 2018, 866, 59.	1.6	4
192	Temporal variation of large scale flows in the solar interior. Journal of Astrophysics and Astronomy, 2000, 21, 353-356.	0.4	3
193	Isochrones of M67 with an Expanded Set of Parameters. EPJ Web of Conferences, 2017, 160, 05005.	0.1	3
194	Asteroseismic Investigations of the Binary System HD 176465. Astrophysical Journal, 2018, 856, 123.	1.6	3
195	Plot Thickens in Solar Opacity Debate. Physics Magazine, 2019, 12, .	0.1	3
196	Galactic Chemical Evolution with Nearly Constant Star-Formation Rates. Astrophysical Journal, 1993, 417, 145.	1.6	3
197	Solar-cycleâ€“related Changes in the Helium Ionization Zones of the Sun. Astrophysical Journal Letters, 2020, 903, L29.	3.0	3
198	Studying stars through frequency inversions. , 0, , 87-122.		2

#	Article	IF	Citations
199	G-dwarf metallicity distribution curves assuming an inhomogeneous interstellar medium. Astrophysics and Space Science, 1992, 196, 1-21.	0.5	2
200	The seismic Sun. Symposium - International Astronomical Union, 1997, 181, 137-150.	0.1	2
201	Evidence of Solar-cycle-related Structural Changes in the Solar Convection Zone. Astrophysical Journal, 2021, 917, 45.	1.6	2
202	Inferences on Stellar Activity and Stellar Cycles from Asteroseismology. Space Sciences Series of ISSI, 2015, , 437-456.	0.0	2
203	Inverse Analysis of Asteroseismic Data: A Review. Thirty Years of Astronomical Discovery With UKIRT, 2020, , 171-183.	0.3	2
204	Solar Cycle Variations of Large-Scale Flows in the Sun. , 2000, , 469-480.		2
205	Characteristics of Solar Meridional Flows. Journal of Physics: Conference Series, 2011, 271, 012071.	0.3	1
206	Zonal Flows Throughout Cycle 23. Journal of Physics: Conference Series, 2011, 271, 012072.	0.3	1
207	Characterizing Convection in Stellar Atmospheres. Journal of Physics: Conference Series, 2011, 271, 012080.	0.3	1
208	The Potential of Solar High-Degree Modes for Structure Inversion. , 2000, , 541-552.		1
209	Understanding the Internal Chemical Composition and Physical Processes of the Solar Interior. Space Sciences Series of ISSI, 2017, , 55-83.	0.0	1
210	Possible Solar Cycle Variations in the Convection Zone. , 2000, , 449-458.		1
211	Stellar Inversions. , 2003, , 153-164.		1
212	Uncovering the Hidden Layers of the Sun. Thirty Years of Astronomical Discovery With UKIRT, 2020, , 49-61.	0.3	1
213	Filtering in inversion for solar internal structure. , 1996, , 32-39.		0
214	Modelling the solar interior. AIP Conference Proceedings, 2007, , .	0.3	0
215	Variation in convective properties across the HR diagram. Proceedings of the International Astronomical Union, 2010, 6, 401-402.	0.0	0
216	High frequency power in HMI ring diagrams. Journal of Physics: Conference Series, 2011, 271, 012059.	0.3	0

#	Article	IF	Citations
217	Evolutionary scenarios and chemical inhomogeneities of extended horizontal branch stars. Journal of Physics: Conference Series, 2011, 271, 012039.	0.3	0
218	Asteroseismic estimate of helium abundance of 16 Cyg A, B. EPJ Web of Conferences, 2015, 101, 06066.	0.1	0
219	Large-scale flows in the Sun: Characteristics and time variations. Proceedings of the International Astronomical Union, 2018, 13, 3-8.	0.0	0
220	Helioseismic Inferences on the Internal Structure and Dynamics of the Sun. , 2019, , 87-125.		0
221	Does the Tachocline Show Solar Cycle Related Changes?. , 2000, , 481-486.		0
222	Temporal Variation of Large Scale Flows in the Solar Interior. International Astronomical Union Colloquium, 2000, 179, 353-356.	0.1	0
223	Sound Speed in Normal Stars. , 2001, , 399-422.		0
224	Helioseismology as a diagnostic of the solar interior. , 2009, , 41-48.		0
225	Frequency Dependence of Î”Î½ of Solar-Like Oscillators Investigated: Influence of HeII Ionization Zone. Thirty Years of Astronomical Discovery With UKIRT, 2013, , 73-76.	0.3	0
226	Asteroseismic Ages of Red-giant Stars from Grid-based Modeling: The Impact of Systematics in Effective Temperature or Metallicity. Research Notes of the AAS, 2019, 3, 165.	0.3	0