

Sarbani Basu

List of Publications by Year in descending order

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Version: 2024-02-01

226
papers

18,122
citations

15466

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10405
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#	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.	1.9	22
2	Changes in the Near-surface Shear Layer of the Sun. <i>Astrophysical Journal</i> , 2022, 924, 19.	1.6	5
3	Mixed-mode Asteroseismology of Red Giant Stars Through the Luminosity Bump. <i>Astrophysical Journal</i> , 2022, 931, 116.	1.6	5
4	Differential Modeling Systematics across the HR Diagram from Asteroseismic Surface Corrections. <i>Astrophysical Journal</i> , 2021, 906, 54.	1.6	9
5	Impact of magnetic activity on inferred stellar properties of main-sequence Sun-like stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 5808-5820.	1.6	9
6	Hierarchically modelling <i>Kepler</i> dwarfs and subgiants to improve inference of stellar properties with asteroseismology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 2427-2446.	1.6	10
7	Asteroseismic Inference of the Central Structure in a Subgiant Star. <i>Astrophysical Journal</i> , 2021, 915, 100.	1.6	9
8	Evidence of Solar-cycle-related Structural Changes in the Solar Convection Zone. <i>Astrophysical Journal</i> , 2021, 917, 45.	1.6	2
9	Prospects for Galactic and stellar astrophysics with asteroseismology of giant stars in the <i>TESS</i> continuous viewing zones and beyond. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 1947-1966.	1.6	30
10	TOI-257b (HD 19916b): a warm sub-saturn orbiting an evolved F-type star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 3704-3722.	1.6	33
11	Mixed Modes and Asteroseismic Surface Effects. I. Analytic Treatment. <i>Astrophysical Journal</i> , 2021, 920, 8.	1.6	8
12	PLATO hare-and-hounds exercise: asteroseismic model fitting of main-sequence solar-like pulsators. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5864-5885.	1.6	13
13	Magnetic and Rotational Evolution of ϵ -CrB from Asteroseismology with TESS. <i>Astrophysical Journal</i> , 2021, 921, 122.	1.6	12
14	Mixed Modes and Asteroseismic Surface Effects. II. Subgiant Systematics. <i>Astrophysical Journal</i> , 2021, 922, 18.	1.6	6
15	TESS Asteroseismology of $\hat{\iota}$ Mensae: Benchmark Ages for a G7 Dwarf and Its M Dwarf Companion. <i>Astrophysical Journal</i> , 2021, 922, 229.	1.6	14
16	Convective boundary mixing in low- and intermediate-mass stars $\hat{\iota}$ I. Core properties from pressure-mode asteroseismology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4987-5004.	1.6	22
17	Unveiling the Structure and Dynamics of Red Giants With Asteroseismology. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	1.1	7
18	TESS Asteroseismic Analysis of the Known Exoplanet Host Star HD 222076. <i>Astrophysical Journal</i> , 2020, 896, 65.	1.6	14

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19	Solar cycle variation of $\hat{\nu}_{1/2}^{\max}$ in helioseismic data and its implications for asteroseismology. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 493, L49-L53.	1.2	9
20	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
21	Detection and Characterization of Oscillating Red Giants: First Results from the TESS Satellite. Astrophysical Journal Letters, 2020, 889, L34.	3.0	37
22	Age dating of an early Milky Way merger via asteroseismology of the naked-eye star $\hat{\nu}_{1/2}$ Indi. Nature Astronomy, 2020, 4, 382-389.	4.2	46
23	Inverse Analysis of Asteroseismic Data: A Review. Thirty Years of Astronomical Discovery With UKIRT, 2020, , 171-183.	0.3	2
24	Asteroseismic sensitivity to internal rotation along the red-giant branch. Astronomy and Astrophysics, 2020, 639, A98.	2.1	7
25	Estimating the Ultraviolet Emission of M Dwarfs with Exoplanets from Ca ii and H β . Astronomical Journal, 2020, 160, 269.	1.9	21
26	Semianalytic Expressions for the Isolation and Coupling of Mixed Modes. Astrophysical Journal, 2020, 898, 127.	1.6	21
27	The Evolution of Rotation and Magnetic Activity in 94 Aqr Aa from Asteroseismology with TESS. Astrophysical Journal, 2020, 900, 154.	1.6	18
28	Examining the Relationship Between Convective Core Overshoot and Stellar Properties Using Asteroseismology. Astrophysical Journal, 2020, 904, 22.	1.6	10
29	Solar-cycle-related Changes in the Helium Ionization Zones of the Sun. Astrophysical Journal Letters, 2020, 903, L29.	3.0	3
30	Uncovering the Hidden Layers of the Sun. Thirty Years of Astronomical Discovery With UKIRT, 2020, , 49-61.	0.3	1
31	Robust asteroseismic properties of the bright planet host HD 38529. Monthly Notices of the Royal Astronomical Society, 2020, 499, 6084-6093.	1.6	8
32	TESS Asteroseismology of the Known Red-giant Host Stars HD 212771 and HD 203949. Astrophysical Journal, 2019, 885, 31.	1.6	28
33	Plot Thickens in Solar Opacity Debate. Physics Magazine, 2019, 12, .	0.1	3
34	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
35	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
36	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

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37	A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. <i>Astronomical Journal</i> , 2019, 157, 245.	1.9	72
38	Explaining Deviations from the Scaling Relationship of the Large Frequency Separation. <i>Astrophysical Journal</i> , 2019, 870, 41.	1.6	10
39	The Helium Abundance of NGC 6791 from Modeling of Stellar Oscillations. <i>Astrophysical Journal</i> , 2019, 874, 180.	1.6	24
40	Determining the Best Method of Calculating the Large Frequency Separation For Stellar Models. <i>Astrophysical Journal</i> , 2019, 879, 33.	1.6	12
41	Structural and Evolutionary Diagnostics from Asteroseismic Phase Functions. <i>Astrophysical Journal</i> , 2019, 885, 26.	1.6	6
42	Helioseismic Inferences on the Internal Structure and Dynamics of the Sun. , 2019, , 87-125.		0
43	Asteroseismology of the Multiplanet System K2-93. <i>Astronomical Journal</i> , 2019, 158, 248.	1.9	11
44	Changes in Solar Rotation over Two Solar Cycles. <i>Astrophysical Journal</i> , 2019, 883, 93.	1.6	14
45	Testing Stellar Evolution with Asteroseismic Inversions of a Main-sequence Star Harboring a Small Convective Core. <i>Astrophysical Journal</i> , 2019, 885, 143.	1.6	13
46	Asteroseismic Ages of Red-giant Stars from Grid-based Modeling: The Impact of Systematics in Effective Temperature or Metallicity. <i>Research Notes of the AAS</i> , 2019, 3, 165.	0.3	0
47	Asteroseismology of KIC 8263801: Is It a Member of NGC 6866 and a Red Clump Star?. <i>Astrophysical Journal</i> , 2018, 866, 59.	1.6	4
48	Improved Calibration of the Radii of Cool Stars Based on 3D Simulations of Convection: Implications for the Solar Model. <i>Astrophysical Journal</i> , 2018, 869, 135.	1.6	9
49	The Robustness of Asteroseismic Estimates of Global Stellar Parameters to Surface Term Corrections. <i>Astrophysical Journal</i> , 2018, 869, 8.	1.6	13
50	The Second APOKASC Catalog: The Empirical Approach. <i>Astrophysical Journal</i> , Supplement Series, 2018, 239, 32.	3.0	183
51	Large-scale flows in the Sun: Characteristics and time variations. <i>Proceedings of the International Astronomical Union</i> , 2018, 13, 3-8.	0.0	0
52	Investigating the Metallicityâ€“Mixing-length Relation. <i>Astrophysical Journal</i> , 2018, 858, 28.	1.6	46
53	Asteroseismic Investigations of the Binary System HD 176465. <i>Astrophysical Journal</i> , 2018, 856, 123.	1.6	3
54	Seismic Measurement of the Locations of the Base of Convection Zone and Helium Ionization Zone for Stars in the Kepler Seismic LEGACY Sample. <i>Astrophysical Journal</i> , 2017, 837, 47.	1.6	39

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55	A New Generation of Standard Solar Models. <i>Astrophysical Journal</i> , 2017, 835, 202.	1.6	239
56	On the Statistical Properties of the Lower Main Sequence. <i>Astrophysical Journal</i> , 2017, 839, 116.	1.6	24
57	The Correlation between Mixing Length and Metallicity on the Giant Branch: Implications for Ages in the Gaia Era. <i>Astrophysical Journal</i> , 2017, 840, 17.	1.6	80
58	Standing on the Shoulders of Dwarfs: the Kepler Asteroseismic LEGACY Sample. I. Oscillation Mode Parameters. <i>Astrophysical Journal</i> , 2017, 835, 172.	1.6	195
59	Standing on the Shoulders of Dwarfs: the Kepler Asteroseismic LEGACY Sample. II. Radii, Masses, and Ages. <i>Astrophysical Journal</i> , 2017, 835, 173.	1.6	223
60	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. <i>Astrophysical Journal</i> , Supplement Series, 2017, 233, 25.	3.0	406
61	Changing the $\hat{\nu}_{\max}$ Scaling Relation: The Need for a Mean Molecular Weight Term. <i>Astrophysical Journal</i> , 2017, 843, 11.	1.6	51
62	A new method for the asteroseismic determination of the evolutionary state of red-giant stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 3344-3352.	1.6	50
63	Mitigating the mass dependence in the $\hat{\nu}_{\max}$ scaling relation of red giant stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 2069-2078.	1.6	18
64	The Apache Point Observatory Galactic Evolution Experiment (APOGEE). <i>Astronomical Journal</i> , 2017, 154, 94.	1.9	1,065
65	Model-independent Measurement of Internal Stellar Structure in 16 Cygni A and B. <i>Astrophysical Journal</i> , 2017, 851, 80.	1.6	29
66	The First APOKASC Catalog of Kepler Dwarf and Subgiant Stars. <i>Astrophysical Journal</i> , Supplement Series, 2017, 233, 23.	3.0	121
67	Isochrones of M67 with an Expanded Set of Parameters. <i>EPJ Web of Conferences</i> , 2017, 160, 05005.	0.1	3
68	Stellar Parameters in an Instant with Machine Learning. <i>EPJ Web of Conferences</i> , 2017, 160, 05003.	0.1	4
69	Understanding the Internal Chemical Composition and Physical Processes of the Solar Interior. <i>Space Sciences Series of ISSI</i> , 2017, , 55-83.	0.0	1
70	Evolutionary states of red-giant stars from grid-based modelling. <i>EPJ Web of Conferences</i> , 2017, 160, 04006.	0.1	7
71	Implications of solar wind measurements for solar models and composition. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 2-9.	1.6	22
72	Significantly improving stellar mass and radius estimates: a new reference function for the $\hat{\nu}_{\max}$ scaling relation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 4277-4281.	1.6	71

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73	Asteroseismology of the Hyades with K2: first detection of main-sequence solar-like oscillations in an open cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 2600-2611.	1.6	17
74	FUNDAMENTAL PARAMETERS OF MAIN-SEQUENCE STARS IN AN INSTANT WITH MACHINE LEARNING. <i>Astrophysical Journal</i> , 2016, 830, 31.	1.6	66
75	Global seismology of the Sun. <i>Living Reviews in Solar Physics</i> , 2016, 13, 1.	7.8	103
76	Asteroseismic Properties of Solar-type Stars Observed with the NASA K2 Mission: Results from Campaigns 1–3 and Prospects for Future Observations. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 124204.	1.0	24
77	THE KEPLER-454 SYSTEM: A SMALL, NOT-ROCKY INNER PLANET, A JOVIAN WORLD, AND A DISTANT COMPANION. <i>Astrophysical Journal</i> , 2016, 816, 95.	1.6	55
78	ENTROPY IN ADIABATIC REGIONS OF CONVECTION SIMULATIONS. <i>Astrophysical Journal Letters</i> , 2016, 822, L17.	3.0	7
79	OSCILLATING RED GIANTS OBSERVED DURING CAMPAIGN 1 OF THE KEPLER K2 MISSION: NEW PROSPECTS FOR GALACTIC ARCHAEOLOGY. <i>Astrophysical Journal Letters</i> , 2015, 809, L3.	3.0	84
80	Asteroseismic estimate of helium abundance of 16 Cyg A, B. <i>EPJ Web of Conferences</i> , 2015, 101, 06066.	0.1	0
81	Young α -enriched giant stars in the solar neighbourhood. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 2230-2243.	1.6	133
82	KEPLER-432: A RED GIANT INTERACTING WITH ONE OF ITS TWO LONG-PERIOD GIANT PLANETS. <i>Astrophysical Journal</i> , 2015, 803, 49.	1.6	70
83	ACCURATE GRAVITIES OF F, G, AND K STARS FROM HIGH RESOLUTION SPECTRA WITHOUT EXTERNAL CONSTRAINTS. <i>Astrophysical Journal</i> , 2015, 805, 126.	1.6	54
84	EVOLUTION OF NEAR-SURFACE FLOWS INFERRED FROM HIGH-RESOLUTION RING-DIAGRAM ANALYSIS. <i>Astrophysical Journal</i> , 2015, 807, 125.	1.6	22
85	MODELING THE ASTEROSEISMIC SURFACE TERM ACROSS THE HR DIAGRAM. <i>Astrophysical Journal</i> , 2015, 808, 123.	1.6	23
86	Stellar diameters and temperatures – VI. High angular resolution measurements of the transiting exoplanet host stars HD 189733 and HD 209458 and implications for models of cool dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 846-857.	1.6	108
87	THE ELEVENTH AND TWELFTH DATA RELEASES OF THE SLOAN DIGITAL SKY SURVEY: FINAL DATA FROM SDSS-III. <i>Astrophysical Journal, Supplement Series</i> , 2015, 219, 12.	3.0	1,877
88	Understanding the Internal Chemical Composition and Physical Processes of the Solar Interior. <i>Space Science Reviews</i> , 2015, 196, 49-77.	3.7	19
89	Inferences on Stellar Activity and Stellar Cycles from Asteroseismology. <i>Space Sciences Series of ISSI</i> , 2015, , 437-456.	0.0	2
90	THE EFFECT OF METALLICITY-DEPENDENT α -T α -RELATIONS ON CALIBRATED STELLAR MODELS. <i>Astrophysical Journal Letters</i> , 2014, 785, L13.	3.0	20

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91	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.	3.0	268
92	Bayesian distances and extinctions for giants observed by Kepler and APOGEE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 2758-2776.	1.6	148
93	REVISED STELLAR PROPERTIES OF <i>KEPLER</i> TARGETS FOR THE QUARTER 1-16 TRANSIT DETECTION RUN. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 2.	3.0	418
94	A THEORETICAL STUDY OF ACOUSTIC GLITCHES IN LOW-MASS MAIN-SEQUENCE STARS. <i>Astrophysical Journal</i> , 2014, 794, 114.	1.6	25
95	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.	1.6	76
96	TESTING THE ASTEROSEISMIC MASS SCALE USING METAL-POOR STARS CHARACTERIZED WITH APOGEE AND <i>KEPLER</i> . <i>Astrophysical Journal Letters</i> , 2014, 785, L28.	3.0	84
97	ASTEROSEISMIC ESTIMATE OF HELIUM ABUNDANCE OF A SOLAR ANALOG BINARY SYSTEM. <i>Astrophysical Journal</i> , 2014, 790, 138.	1.6	51
98	THE APOGEE RED-CLUMP CATALOG: PRECISE DISTANCES, VELOCITIES, AND HIGH-RESOLUTION ELEMENTAL ABUNDANCES OVER A LARGE AREA OF THE MILKY WAY'S DISK. <i>Astrophysical Journal</i> , 2014, 790, 127.	1.6	181
99	MASSES, RADII, AND ORBITS OF SMALL <i>KEPLER</i> PLANETS: THE TRANSITION FROM GASEOUS TO ROCKY PLANETS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 210, 20.	3.0	418
100	Inferences on Stellar Activity and Stellar Cycles from Asteroseismology. <i>Space Science Reviews</i> , 2014, 186, 437-456.	3.7	8
101	A sub-Mercury-sized exoplanet. <i>Nature</i> , 2013, 494, 452-454.	13.7	193
102	The peculiar solar cycle 24 – where do we stand?. <i>Journal of Physics: Conference Series</i> , 2013, 440, 012001.	0.3	19
103	VARIATION OF STELLAR ENVELOPE CONVECTION AND OVERSHOOT WITH METALLICITY. <i>Astrophysical Journal</i> , 2013, 767, 78.	1.6	27
104	FUNDAMENTAL PROPERTIES OF <i>KEPLER</i> PLANET-CANDIDATE HOST STARS USING ASTEROSEISMOLOGY. <i>Astrophysical Journal</i> , 2013, 767, 127.	1.6	259
105	HELIUM-ABUNDANCE AND OTHER COMPOSITION EFFECTS ON THE PROPERTIES OF STELLAR SURFACE CONVECTION IN SOLAR-LIKE MAIN-SEQUENCE STARS. <i>Astrophysical Journal</i> , 2013, 778, 117.	1.6	12
106	Stellar Spin-Orbit Misalignment in a Multiplanet System. <i>Science</i> , 2013, 342, 331-334.	6.0	262
107	Contrasting the solar rotation rate of cycles 23 and 24. <i>Journal of Physics: Conference Series</i> , 2013, 440, 012018.	0.3	8
108	Revisiting the Issue of Solar Abundances. <i>Journal of Physics: Conference Series</i> , 2013, 440, 012017.	0.3	15

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109	KEPLER-68: THREE PLANETS, ONE WITH A DENSITY BETWEEN THAT OF EARTH AND ICE GIANTS. <i>Astrophysical Journal</i> , 2013, 766, 40.	1.6	106
110	Frequency Dependence of $\nu^{1/2}$ of Solar-Like Oscillators Investigated: Influence of Helium Ionization Zone. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2013, , 73-76.	0.3	0
111	Kepler-36: A Pair of Planets with Neighboring Orbits and Dissimilar Densities. <i>Science</i> , 2012, 337, 556-559.	6.0	335
112	ASTEROSEISMOLOGY OF THE OPEN CLUSTERS NGC 6791, NGC 6811, AND NGC 6819 FROM 19 MONTHS OF <i>KEPLER</i> PHOTOMETRY. <i>Astrophysical Journal</i> , 2012, 757, 190.	1.6	129
113	KEPLER-21b: A 1.6 R_{Earth} PLANET TRANSITING THE BRIGHT OSCILLATING F SUBGIANT STAR HD 179070. <i>Astrophysical Journal</i> , 2012, 746, 123.	1.6	124
114	Kepler-22b: A 2.4 EARTH-RADIUS PLANET IN THE HABITABLE ZONE OF A SUN-LIKE STAR. <i>Astrophysical Journal</i> , 2012, 745, 120.	1.6	218
115	THINNING OF THE SUN'S MAGNETIC LAYER: THE PECULIAR SOLAR MINIMUM COULD HAVE BEEN PREDICTED. <i>Astrophysical Journal</i> , 2012, 758, 43.	1.6	52
116	COMPARING THE EFFECT OF RADIATIVE TRANSFER SCHEMES ON CONVECTION SIMULATIONS. <i>Astrophysical Journal</i> , 2012, 759, 120.	1.6	14
117	EFFECT OF UNCERTAINTIES IN STELLAR MODEL PARAMETERS ON ESTIMATED MASSES AND RADII OF SINGLE STARS. <i>Astrophysical Journal</i> , 2012, 746, 76.	1.6	55
118	CALIBRATING CONVECTIVE PROPERTIES OF SOLAR-LIKE STARS IN THE <i>KEPLER</i> FIELD OF VIEW. <i>Astrophysical Journal Letters</i> , 2012, 755, L12.	3.0	80
119	AN IN-DEPTH STUDY OF GRID-BASED ASTEROSEISMIC ANALYSIS. <i>Astrophysical Journal</i> , 2011, 730, 63.	1.6	142
120	REVISITING THE SOLAR TACHOCLINE: AVERAGE PROPERTIES AND TEMPORAL VARIATIONS. <i>Astrophysical Journal Letters</i> , 2011, 735, L45.	3.0	23
121	Characteristics of Solar Meridional Flows. <i>Journal of Physics: Conference Series</i> , 2011, 271, 012071.	0.3	1
122	Zonal Flows Throughout Cycle 23. <i>Journal of Physics: Conference Series</i> , 2011, 271, 012072.	0.3	1
123	The thermal structure of sunspots from ring diagram analysis. <i>Journal of Physics: Conference Series</i> , 2011, 271, 012006.	0.3	6
124	High frequency power in HMI ring diagrams. <i>Journal of Physics: Conference Series</i> , 2011, 271, 012059.	0.3	0
125	Characterizing Convection in Stellar Atmospheres. <i>Journal of Physics: Conference Series</i> , 2011, 271, 012080.	0.3	1
126	Are short-term variations in solar oscillation frequencies the signature of a second solar dynamo?. <i>Journal of Physics: Conference Series</i> , 2011, 271, 012025.	0.3	12

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127	Evolutionary scenarios and chemical inhomogeneities of extended horizontal branch stars. Journal of Physics: Conference Series, 2011, 271, 012039.	0.3	0
128	Are recent solar heavy element abundances consistent with helioseismology?. Journal of Physics: Conference Series, 2011, 271, 012034.	0.3	13
129	SOUNDING OPEN CLUSTERS: ASTEROSEISMIC CONSTRAINTS FROM <i>KEPLER</i> ON THE PROPERTIES OF NGC 6791 AND NGC 6819. Astrophysical Journal Letters, 2011, 729, L10.	3.0	120
130	EVIDENCE FOR SOLAR FREQUENCY DEPENDENCE ON SUNSPOT TYPE. Astrophysical Journal Letters, 2011, 733, L5.	3.0	5
131	AN ASTEROSEISMIC MEMBERSHIP STUDY OF THE RED GIANTS IN THREE OPEN CLUSTERS OBSERVED BY<i>KEPLER</i>: NGC 6791, NGC 6819, AND NGC 6811. Astrophysical Journal, 2011, 739, 13.	1.6	88
132	AMPLITUDES OF SOLAR-LIKE OSCILLATIONS: CONSTRAINTS FROM RED GIANTS IN OPEN CLUSTERS OBSERVED BY <i>KEPLER</i>. Astrophysical Journal Letters, 2011, 737, L10.	3.0	53
133	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
134	Variation in convective properties across the HR diagram. Proceedings of the International Astronomical Union, 2010, 6, 401-402.	0.0	0
135	DETECTION OF SOLAR-LIKE OSCILLATIONS FROM <i>KEPLER</i> PHOTOMETRY OF THE OPEN CLUSTER NGC 6819. Astrophysical Journal Letters, 2010, 713, L182-L186.	3.0	65
136	A SEISMIC SIGNATURE OF A SECOND DYNAMO?. Astrophysical Journal Letters, 2010, 718, L19-L22.	3.0	110
137	DETERMINING THE INITIAL HELIUM ABUNDANCE OF THE SUN. Astrophysical Journal, 2010, 719, 865-872.	1.6	66
138	CHARACTERISTICS OF SOLAR MERIDIONAL FLOWS DURING SOLAR CYCLE 23. Astrophysical Journal, 2010, 717, 488-495.	1.6	83
139	SOLAR ROTATION RATE DURING THE CYCLE 24 MINIMUM IN ACTIVITY. Astrophysical Journal, 2010, 720, 494-502.	1.6	26
140	Determining stellar radii using large separations: anÂerrorÂanalysis. Astrophysics and Space Science, 2010, 328, 79-82.	0.5	5
141	Helioseismology as a diagnostic of the solar interior. Astrophysics and Space Science, 2010, 328, 43-50.	0.5	9
142	DETERMINATION OF STELLAR RADII FROM ASTEROSEISMIC DATA. Astrophysical Journal, 2010, 710, 1596-1609.	1.6	117
143	Kepler Asteroseismology Program: Introduction and First Results. Publications of the Astronomical Society of the Pacific, 2010, 122, 131-143.	1.0	370
144	SOLAR MAGNETIC FIELD SIGNATURES IN HELIOSEISMIC SPLITTING COEFFICIENTS. Astrophysical Journal, 2009, 705, 1704-1713.	1.6	23

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145	NEW SOLAR COMPOSITION: THE PROBLEM WITH SOLAR MODELS REVISITED. <i>Astrophysical Journal</i> , 2009, 705, L123-L127.	1.6	297
146	TWO-DIMENSIONAL STELLAR EVOLUTION CODE INCLUDING ARBITRARY MAGNETIC FIELDS. II. PRECISION IMPROVEMENT AND INCLUSION OF TURBULENCE AND ROTATION. <i>Astrophysical Journal, Supplement Series</i> , 2009, 182, 584-607.	3.0	8
147	FRESH INSIGHTS ON THE STRUCTURE OF THE SOLAR CORE. <i>Astrophysical Journal</i> , 2009, 699, 1403-1417.	1.6	122
148	Interpreting Helioseismic Structure Inversion Results of Solar Active Regions. <i>Solar Physics</i> , 2009, 257, 37-60.	1.0	6
149	Helioseismology as a diagnostic of the solar interior. , 2009, , 41-48.		0
150	Perspectives in Global Helioseismology and the Road Ahead. <i>Solar Physics</i> , 2008, 251, 53-75.	1.0	26
151	Probing the Subsurface Structures of Active Regions with Ring-Diagram Analysis. <i>Solar Physics</i> , 2008, 251, 439-451.	1.0	31
152	Helioseismology and solar abundances. <i>Physics Reports</i> , 2008, 457, 217-283.	10.3	317
153	Seismological Analysis of the Stars $\hat{3}$ Serpentis and $\hat{1}$ Leonis: Stellar Parameters and Evolution. <i>Astrophysical Journal</i> , 2008, 673, 1093-1105.	1.6	12
154	Solar Cycle Related Changes at the Base of the Convection Zone. <i>Astrophysical Journal</i> , 2008, 686, 1349-1361.	1.6	51
155	Analysis of the characteristics of solar oscillation modes in active regions. <i>Journal of Physics: Conference Series</i> , 2008, 118, 012084.	0.3	6
156	Solar Rotation Rate and Its Gradients During Cycle 23. <i>Astrophysical Journal</i> , 2008, 681, 680-692.	1.6	58
157	Modelling the solar interior. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
158	Solar Heavy Element Abundance: Constraints from Frequency Separation Ratios of Low Degree Modes. <i>Astrophysical Journal</i> , 2007, 670, 872-884.	1.6	67
159	Seismic Study of the Chemical Composition of the Solar Convection Zone. <i>Astrophysical Journal</i> , 2007, 668, 603-610.	1.6	41
160	Structure of the Near-Surface Layers of the Sun: Asphericity and Time Variation. <i>Astrophysical Journal</i> , 2007, 654, 1146-1165.	1.6	17
161	Solar Abundances and Helioseismology: Fine Structure Spacings and Separation Ratios of Low Degree Modes. <i>Astrophysical Journal</i> , 2007, 655, 660-671.	1.6	74
162	Determining Solar Abundances Using Helioseismology. <i>Astrophysical Journal</i> , 2006, 644, 1292-1298.	1.6	83

#	ARTICLE	IF	CITATIONS
163	Asteroseismic diagnostics of stellar convective cores. Monthly Notices of the Royal Astronomical Society, 2006, 372, 949-958.	1.6	33
164	10,000 Standard Solar Models: A Monte Carlo Simulation. Astrophysical Journal, Supplement Series, 2006, 165, 400-431.	3.0	213
165	What Is the Neon Abundance of the Sun?. Astrophysical Journal, 2005, 631, 1281-1285.	1.6	124
166	The Discrepancy between Solar Abundances and Helioseismology. Astrophysical Journal, 2005, 620, L129-L132.	1.6	112
167	Helioseismological Implications of Recent Solar Abundance Determinations. Astrophysical Journal, 2005, 618, 1049-1056.	1.6	263
168	The Nonhomologous Nature of Solar Diameter Variations. Astrophysical Journal, 2005, 632, L147-L150.	1.6	39
169	New Solar Opacities, Abundances, Helioseismology, and Neutrino Fluxes. Astrophysical Journal, 2005, 621, L85-L88.	1.6	490
170	Asteroseismic determination of helium abundance in stellar envelopes. Monthly Notices of the Royal Astronomical Society, 2004, 350, 277-286.	1.6	74
171	Constraining Solar Abundances Using Helioseismology. Astrophysical Journal, 2004, 606, L85-L88.	1.6	237
172	Ring Diagram Analysis of the Structure of Solar Active Regions. Astrophysical Journal, 2004, 610, 1157-1168.	1.6	91
173	Does Solar Structure Vary with Solar Magnetic Activity?. Astrophysical Journal, 2004, 617, L155-L158.	1.6	43
174	Stellar Inversions. Astrophysics and Space Science, 2003, 284, 153-164.	0.5	16
175	Flare-Induced Excitation of Solar p modes. Solar Physics, 2003, 218, 151-172.	1.0	15
176	Changes in Solar Dynamics from 1995 to 2002. Astrophysical Journal, 2003, 585, 553-565.	1.6	155
177	Stellar Inversions. , 2003, , 153-164.		1
178	Seismic Test of Solar Models, Solar Neutrinos, and Implications for Metal Enrichment Accretion. Astrophysical Journal, 2002, 576, 1075-1084.	1.6	48
179	High Amplitude γ Scuti and SX Phoenixis Stars: The Effects of Chemical Composition on Pulsations and the Period-Luminosity Relation. Astrophysical Journal, 2002, 576, 963-975.	1.6	31
180	Ring Diagram Analysis of the Characteristics of Solar Oscillation Modes in Active Regions. Astrophysical Journal, 2001, 563, 410-418.	1.6	53

#	ARTICLE	IF	CITATIONS
181	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
182	Solar Models: Current Epoch and Time Dependences, Neutrinos, and Helioseismological Properties. Astrophysical Journal, 2001, 555, 990-1012.	1.6	785
183	Temporal Variations of the Solar Rotation Rate at High Latitudes. Astrophysical Journal, 2001, 559, L67-L70.	1.6	77
184	Asteroseismology of $\hat{\nu}$ Scuti Stars: A Parameter Study and Application to Seismology of FG Virginis. Astrophysical Journal, 2001, 563, 999-1012.	1.6	10
185	Sound Speed in Normal Stars. , 2001, , 399-422.		0
186	Temporal Variations of the Rotation Rate in the Solar Interior. Astrophysical Journal, 2000, 541, 442-448.	1.6	104
187	How Much Do Helioseismological Inferences Depend on the Assumed Reference Model?. Astrophysical Journal, 2000, 529, 1084-1100.	1.6	130
188	Source Depth for Solar [CLC][ITAL]p[ITAL]/[CLC]-Modes. Astrophysical Journal, 2000, 545, L65-L68.	1.6	9
189	Solar Cycle Variation in Solar f-Mode Frequencies and Radius. Solar Physics, 2000, 192, 459-468.	1.0	32
190	The potential of solar high-degree modes for structure inversion. Solar Physics, 2000, 193, 345-356.	1.0	19
191	Does the tachocline show solar cycle related changes?. Solar Physics, 2000, 192, 481-486.	1.0	10
192	Possible solar cycle variations in the convection zone. , 2000, 192, 449-458.		21
193	Solar Cycle Variations of Large-Scale Flows in the sun. , 2000, 192, 469-480.		15
194	Temporal variation of large scale flows in the solar interior. Journal of Astrophysics and Astronomy, 2000, 21, 353-356.	0.4	3
195	The Potential of Solar High-Degree Modes for Structure Inversion. , 2000, , 541-552.		1
196	Effect of Asymmetry in Peak Profiles on Solar Oscillation Frequencies. Astrophysical Journal, 2000, 531, 1088-1093.	1.6	10
197	Solar Cycle Variations of Large-Scale Flows in the Sun. , 2000, , 469-480.		2
198	Does the Tachocline Show Solar Cycle Related Changes?. , 2000, , 481-486.		0

#	ARTICLE	IF	CITATIONS
199	Possible Solar Cycle Variations in the Convection Zone. , 2000, , 449-458.		1
200	Temporal Variation of Large Scale Flows in the Solar Interior. International Astronomical Union Colloquium, 2000, 179, 353-356.	0.1	0
201	High-Frequency and High-Wavenumber Solar Oscillations. Astrophysical Journal, 1999, 519, 400-406.	1.6	21
202	Ring Diagram Analysis of Near-Surface Flows in the Sun. Astrophysical Journal, 1999, 512, 458-470.	1.6	96
203	Helioseismic Analysis of the Hydrogen Partition Function in the Solar Interior. Astrophysical Journal, 1999, 518, 985-993.	1.6	54
204	Line Asymmetry of Solar Modes: Reversal of Asymmetry in Intensity Power Spectra. Astrophysical Journal, 1999, 519, 389-395.	1.6	30
205	Line Asymmetry of Solar Modes: Properties of Acoustic Sources. Astrophysical Journal, 1999, 519, 396-399.	1.6	33
206	Large-Scale Flows in the Solar Interior: Effect of Asymmetry in Peak Profiles. Astrophysical Journal, 1999, 525, 517-523.	1.6	38
207	How uncertain are solar neutrino predictions?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 433, 1-8.	1.5	347
208	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
209	Are Standard Solar Models Reliable?. Physical Review Letters, 1997, 78, 171-174.	2.9	171
210	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
211	Localized Helioseismic Constraints on Solar Structure. Astrophysical Journal, 1997, 485, L91-L94.	1.6	9
212	The seismic Sun. Symposium - International Astronomical Union, 1997, 181, 137-150.	0.1	2
213	STRUCTURE AND ROTATION OF THE SOLAR INTERIOR: INITIAL RESULTS FROM THE MDI MEDIUM-L PROGRAM. Solar Physics, 1997, 170, 43-61.	1.0	239
214	The Seismic Sun. , 1997, , 137-150.		6
215	Effect of Turbulent Pressure on Solar Oscillation Frequencies. Astrophysics and Space Science Library, 1997, , 51-54.	1.0	5
216	Filtering in inversion for solar internal structure. , 1996, , 32-39.		0

#	ARTICLE	IF	CITATIONS
217	The Sun's Hydrostatic Structure from LOWL Data. <i>Astrophysical Journal</i> , 1996, 460, 1064.	1.6	39
218	Helioseismic measurement of the extent of overshoot below the solar convection zone. <i>Monthly Notices of the Royal Astronomical Society</i> , 1994, 267, 209-224.	1.6	96
219	Seismology of the solar convection zone. <i>Journal of Astrophysics and Astronomy</i> , 1994, 15, 143-156.	0.4	21
220	Measuring the helium abundance in the solar envelope: The role of the equation of state. <i>Astrophysical Journal</i> , 1994, 426, 801.	1.6	49
221	Galactic Chemical Evolution with Nearly Constant Star-Formation Rates. <i>Astrophysical Journal</i> , 1993, 417, 145.	1.6	3
222	G-dwarf metallicity distribution curves assuming an inhomogeneous interstellar medium. <i>Astrophysics and Space Science</i> , 1992, 196, 1-21.	0.5	2
223	Multiplicity-corrected mass function of main-sequence stars in the solar neighborhood. <i>Astrophysical Journal</i> , 1992, 393, 373.	1.6	31
224	Distribution of metals in dwarfs stars in the solar neighbourhood. <i>Astrophysics and Space Science</i> , 1990, 168, 317-330.	0.5	4
225	Studying stars through frequency inversions. , 0, , 87-122.		2
226	Helium abundance in the solar envelope. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	11