

Laurent Gizon

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1291348/publications.pdf>

Version: 2024-02-01

194
papers

7,371
citations

71102

41
h-index

66911

78
g-index

204
all docs

204
docs citations

204
times ranked

3478
citing authors

#	ARTICLE	IF	CITATIONS
1	The PLATO 2.0 mission. <i>Experimental Astronomy</i> , 2014, 38, 249-330.	3.7	912
2	ASTEROSEISMIC FUNDAMENTAL PROPERTIES OF SOLAR-TYPE STARS OBSERVED BY THE NASA <i>KEPLER</i> MISSION. <i>Astrophysical Journal, Supplement Series</i> , 2014, 210, 1.	7.7	293
3	SEISMIC EVIDENCE FOR A RAPIDLY ROTATING CORE IN A LOWER-GIANT-BRANCH STAR OBSERVED WITH <i>KEPLER</i> . <i>Astrophysical Journal</i> , 2012, 756, 19.	4.5	290
4	Seismic constraints on the radial dependence of the internal rotation profiles of six <i>Kepler</i> subgiants and young red giants. <i>Astronomy and Astrophysics</i> , 2014, 564, A27.	5.1	249
5	Determining the Inclination of the Rotation Axis of a Sun-like Star. <i>Astrophysical Journal</i> , 2003, 589, 1009-1019.	4.5	243
6	Local Helioseismology. <i>Living Reviews in Solar Physics</i> , 2005, 2, 1.	22.0	200
7	Rotation periods of 12â€‰000 main-sequence <i>Kepler</i> stars: Dependence on stellar spectral type and comparison with <i>v</i> _{sin<i>i</i>} observations. <i>Astronomy and Astrophysics</i> , 2013, 557, L10.	5.1	182
8	Timeâ€Distance Helioseismology: The Forward Problem for Random Distributed Sources. <i>Astrophysical Journal</i> , 2002, 571, 966-986.	4.5	174
9	Local Helioseismology: Three-Dimensional Imaging of the Solar Interior. <i>Annual Review of Astronomy and Astrophysics</i> , 2010, 48, 289-338.	24.3	161
10	ASTEROSEISMOLOGY OF THE SOLAR ANALOGS 16 Cyg A AND B FROM <i>KEPLER</i> OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2012, 748, L10.	8.3	156
11	A new correction of stellar oscillation frequencies for near-surface effects. <i>Astronomy and Astrophysics</i> , 2014, 568, A123.	5.1	154
12	Timeâ€Distance Helioseismology: Noise Estimation. <i>Astrophysical Journal</i> , 2004, 614, 472-489.	4.5	131
13	Time-Distance Helioseismology with f Modes as a Method for Measurement of Near-Surface Flows. , 2000, 192, 177-191.		121
14	The Polarimetric and Helioseismic Imager on Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2020, 642, A11.	5.1	121
15	Magnetic Flux Transport at the Solar Surface. <i>Space Science Reviews</i> , 2014, 186, 491-523.	8.1	110
16	Wave-like properties of solar supergranulation. <i>Nature</i> , 2003, 421, 43-44.	27.8	103
17	Helioseismology of Sunspots: A Case Study of NOAA Region 9787. <i>Space Science Reviews</i> , 2009, 144, 249-273.	8.1	96
18	Modeling the Subsurface Structure of Sunspots. <i>Solar Physics</i> , 2010, 267, 1-62.	2.5	88

#	ARTICLE	IF	CITATIONS
19	Helioseismology of Sunspots: Confronting Observations with Three-Dimensional MHD Simulations of Wave Propagation. <i>Solar Physics</i> , 2008, 251, 291-308.	2.5	83
20	Global-scale equatorial Rossby waves as an essential component of solar internal dynamics. <i>Nature Astronomy</i> , 2018, 2, 568-573.	10.1	83
21	The Second Flight of the Sunrise Balloon-borne Solar Observatory: Overview of Instrument Updates, the Flight, the Data, and First Results. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 2.	7.7	80
22	Seismic constraints on rotation of Sun-like star and mass of exoplanet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13267-13271.	7.1	79
23	Asteroseismic detection of latitudinal differential rotation in 13 Sun-like stars. <i>Science</i> , 2018, 361, 1231-1234.	12.6	79
24	Helioseismology of Time-Varying Flows Through The Solar Cycle. <i>Solar Physics</i> , 2004, 224, 217-228.	2.5	76
25	Accurate p-mode measurements of the G0V metal-rich CoRoT target HD 52265. <i>Astronomy and Astrophysics</i> , 2011, 530, A97.	5.1	75
26	The art of fitting p-mode spectra. <i>Astronomy and Astrophysics</i> , 1998, 132, 107-119.	2.1	68
27	The Solar Orbiter Science Activity Plan. <i>Astronomy and Astrophysics</i> , 2020, 642, A3.	5.1	67
28	A New Component of Solar Dynamics: North-South Diverging Flows Migrating toward the Equator with an 11 Year Period. <i>Astrophysical Journal</i> , 2002, 575, L47-L50.	4.5	66
29	Solar Coronal Loops Associated with Small-scale Mixed Polarity Surface Magnetic Fields. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 4.	7.7	64
30	Meridional flow in the Sun's convection zone is a single cell in each hemisphere. <i>Science</i> , 2020, 368, 1469-1472.	12.6	64
31	PLATO as it is: A legacy mission for Galactic archaeology. <i>Astronomische Nachrichten</i> , 2017, 338, 644-661.	1.2	61
32	Comparison of Solar Subsurface Flows Assessed by Ring and Time-Distance Analyses. <i>Astrophysical Journal</i> , 2004, 613, 1253-1262.	4.5	56
33	Seismic tomography of the near solar surface. <i>Journal of Astrophysics and Astronomy</i> , 2000, 21, 339-342.	1.0	54
34	Evidence for photometric activity cycles in 3203 Kepler stars. <i>Astronomy and Astrophysics</i> , 2017, 603, A52.	5.1	53
35	Linear sensitivity of helioseismic travel times to local flows. <i>Astronomische Nachrichten</i> , 2007, 328, 228-233.	1.2	52
36	Observation and Modeling of the Solar-Cycle Variation of the Meridional Flow. <i>Solar Physics</i> , 2008, 251, 241-250.	2.5	50

#	ARTICLE	IF	CITATIONS
37	Structure and Evolution of Supergranulation from Local Helioseismology. <i>Solar Physics</i> , 2008, 251, 417-437.	2.5	47
38	Rossby Waves in Astrophysics. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	47
39	High-Resolution Mapping of Flows in the Solar Interior: Fully Consistent OLA Inversion of Helioseismic Travel-Time. <i>Solar Physics</i> , 2008, 251, 381-415.	2.5	45
40	Validated helioseismic inversions for 3D vector flows. <i>Astronomy and Astrophysics</i> , 2011, 530, A148.	5.1	45
41	Time-distance helioseismology of solar Rossby waves. <i>Astronomy and Astrophysics</i> , 2019, 626, A3.	5.1	45
42	Measuring Stellar Differential rotation with asteroseismology. <i>Solar Physics</i> , 2004, 220, 169-184.	2.5	44
43	A seismic and gravitationally bound double star observed by <i>Kepler</i> . <i>Astronomy and Astrophysics</i> , 2015, 582, A25.	5.1	43
44	On the uncertain nature of the core of ϵ Cen A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 1254-1269.	4.4	42
45	Time-Distance Helioseismology: Inversion of Noisy Correlated Data. <i>Astrophysical Journal, Supplement Series</i> , 2005, 158, 217-229.	7.7	40
46	Transverse Oscillations in Slender Ca ii H Fibrils Observed with Sunrise/SuFI. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 9.	7.7	39
47	Computational helioseismology in the frequency domain: acoustic waves in axisymmetric solar models with flows. <i>Astronomy and Astrophysics</i> , 2017, 600, A35.	5.1	39
48	Direct Measurement of Travel-Time Kernels for Helioseismology. <i>Astrophysical Journal</i> , 2006, 646, 553-559.	4.5	38
49	SLIM: a code for the simulation of wave propagation through an inhomogeneous, magnetised solar atmosphere. <i>Astronomische Nachrichten</i> , 2007, 328, 313-318.	1.2	37
50	Surface-effect corrections for oscillation frequencies of evolved stars. <i>Astronomy and Astrophysics</i> , 2017, 600, A128.	5.1	36
51	Spatially resolved vertical vorticity in solar supergranulation using helioseismology and local correlation tracking. <i>Astronomy and Astrophysics</i> , 2015, 581, A67.	5.1	36
52	THE ADJOINT METHOD APPLIED TO TIME-DISTANCE HELIOSEISMOLOGY. <i>Astrophysical Journal</i> , 2011, 738, 100.	4.5	35
53	Shape of a slowly rotating star measured by asteroseismology. <i>Science Advances</i> , 2016, 2, e1601777.	10.3	35
54	Constructing Semi-Empirical Sunspot Models for Helioseismology. <i>Solar Physics</i> , 2011, 268, 293-308.	2.5	34

#	ARTICLE	IF	CITATIONS
55	Multichannel Three-Dimensional SOLA Inversion for Local Helioseismology. <i>Solar Physics</i> , 2012, 276, 19-33.	2.5	34
56	Slender Ca ii H Fibrils Mapping Magnetic Fields in the Low Solar Chromosphere. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 11.	7.7	34
57	Time-Dependent Helioseismology: Sensitivity of τ -mode Travel Times to Flows. <i>Astrophysical Journal</i> , 2007, 671, 1051-1064.	4.5	32
58	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	3.7	31
59	Solar inertial modes: Observations, identification, and diagnostic promise. <i>Astronomy and Astrophysics</i> , 2021, 652, L6.	5.1	31
60	Astrodynamical Space Test of Relativity Using Optical Devices I (ASTROD I) – A class-M fundamental physics mission proposal for Cosmic Vision 2015–2025. <i>Experimental Astronomy</i> , 2009, 23, 491-527.	3.7	30
61	Helioseismology challenges models of solar convection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 11896-11897.	7.1	30
62	Constraining differential rotation of Sun-like stars from asteroseismic and starspot rotation periods. <i>Astronomy and Astrophysics</i> , 2015, 582, A10.	5.1	30
63	A low upper limit on the subsurface rise speed of solar active regions. <i>Science Advances</i> , 2016, 2, e1600557.	10.3	30
64	The Linear Sensitivity of Helioseismic Ring Diagrams to Local Flows. <i>Astrophysical Journal</i> , 2007, 662, 730-737.	4.5	29
65	Quasi full-disk maps of solar horizontal velocities using SDO/HMI data. <i>Astronomy and Astrophysics</i> , 2012, 540, A88.	5.1	29
66	Scattering of Acoustic Waves by a Magnetic Cylinder: Accuracy of the Born Approximation. <i>Astrophysical Journal</i> , 2006, 643, 549-555.	4.5	28
67	<i>Kepler</i> observations of the asteroseismic binary HD 176465. <i>Astronomy and Astrophysics</i> , 2017, 601, A82.	5.1	28
68	A Tale of Two Emergences: Sunrise II Observations of Emergence Sites in a Solar Active Region. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 3.	7.7	28
69	Helioseismology of sunspots: how sensitive are travel times to the Wilson depression and to the subsurface magnetic field?. <i>Astronomy and Astrophysics</i> , 2013, 558, A130.	5.1	27
70	Constructing and Characterising Solar Structure Models for Computational Helioseismology. <i>Solar Physics</i> , 2011, 271, 1-26.	2.5	26
71	Asteroseismology of Solar-Type Stars with $K2$: Detection of Oscillations in C1 Data. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 1038-1044.	3.1	25
72	Oscillations on Width and Intensity of Slender Ca ii H Fibrils from Sunrise/SuFI. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 7.	7.7	25

#	ARTICLE	IF	CITATIONS
73	Precise modeling of the exoplanet host star and CoRoT main target HD 52265. <i>Astronomy and Astrophysics</i> , 2012, 543, A96.	5.1	25
74	POLAR investigation of the Sunâ€™POLARIS. <i>Experimental Astronomy</i> , 2009, 23, 1079-1117.	3.7	24
75	A New MHD-assisted Stokes Inversion Technique. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 16.	7.7	23
76	Solar meridional circulation from twenty-one years of SOHO/MDI and SDO/HMI observations. <i>Astronomy and Astrophysics</i> , 2018, 619, A99.	5.1	23
77	Latitudinal differential rotation in the solar analogues 16 Cygni A and B. <i>Astronomy and Astrophysics</i> , 2019, 623, A125.	5.1	23
78	Exploring the latitude and depth dependence of solar Rossby waves using ring-diagram analysis. <i>Astronomy and Astrophysics</i> , 2020, 634, A44.	5.1	23
79	Asteroseismology of luminous red giants with <i>Kepler</i> : long-period variables with radial and non-radial modes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 1388-1403.	4.4	23
80	An all-sky catalogue of solar-type dwarfs for exoplanetary transit surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 4210-4222.	4.4	22
81	Magneto-static Modeling from Sunrise/IMaX: Application to an Active Region Observed with Sunrise II. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 18.	7.7	21
82	COMPARISON OF SOLAR SURFACE FLOWS INFERRED FROM TIME-DISTANCE HELIOSEISMOLOGY AND COHERENT STRUCTURE TRACKING USING HMI/SDO OBSERVATIONS. <i>Astrophysical Journal</i> , 2013, 771, 32.	4.5	20
83	Physical causes of solar cycle amplitude variability. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 680-688.	2.4	20
84	Interpreting the Helioseismic and Magnetic Imager (HMI) Multi-Height Velocity Measurements. <i>Solar Physics</i> , 2014, 289, 3457-3481.	2.5	20
85	Limits on radial differential rotation in Sun-like stars from parametric fits to oscillation power spectra. <i>Astronomy and Astrophysics</i> , 2017, 603, A6.	5.1	20
86	Fourier Analysis of Gapped Time Series: Improved Estimates of Solar and Stellar Oscillation Parameters. <i>Solar Physics</i> , 2008, 251, 31-52.	2.5	19
87	<i>f</i> â€™Mode Interactions with Thin Flux Tubes: The Scattering Matrix. <i>Astrophysical Journal</i> , 2008, 680, 774-780.	4.5	19
88	Generalization of the noise model for time-distance helioseismology. <i>Astronomy and Astrophysics</i> , 2014, 567, A137.	5.1	19
89	Measuring solar active region inflows with local correlation tracking of granulation. <i>Astronomy and Astrophysics</i> , 2017, 606, A28.	5.1	19
90	Effect of latitudinal differential rotation on solar Rossby waves: Critical layers, eigenfunctions, and momentum fluxes in the equatorial \hat{r}^2 plane. <i>Astronomy and Astrophysics</i> , 2020, 642, A178.	5.1	18

#	ARTICLE	IF	CITATIONS
91	Helioseismology with Solar Orbiter. <i>Space Science Reviews</i> , 2015, 196, 251-283.	8.1	17
92	SENSITIVITY KERNELS FOR FLOWS IN TIME-DISTANCE HELIOSEISMOLOGY: EXTENSION TO SPHERICAL GEOMETRY. <i>Astrophysical Journal</i> , 2016, 824, 49.	4.5	16
93	Photospheric Response to an Ellerman Bomb-like Event—An Analogy of Sunrise/IMaX Observations and MHD Simulations. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 5.	7.7	16
94	Sensitivity of helioseismic measurements of normal-mode coupling to flows and sound-speed perturbations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 1404-1420.	4.4	16
95	Seismic Probes of Solar Interior Magnetic Structure. <i>Physical Review Letters</i> , 2012, 109, 101101.	7.8	15
96	Rotational splitting as a function of mode frequency for six Sun-like stars. <i>Astronomy and Astrophysics</i> , 2014, 568, L12.	5.1	15
97	The shrinking Sun: A systematic error in local correlation tracking of solar granulation. <i>Astronomy and Astrophysics</i> , 2016, 590, A130.	5.1	15
98	Morphological Properties of Slender Ca H Fibrils Observed by Sunrise II. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 6.	7.7	15
99	Comparison of acoustic travel-time measurements of solar meridional circulation from SDO/HMI and SOHO/MDI. <i>Astronomy and Astrophysics</i> , 2017, 601, A46.	5.1	15
100	Solar Rossby waves observed in GONG++ ring-diagram flow maps. <i>Astronomy and Astrophysics</i> , 2020, 635, A109.	5.1	15
101	A procedure for the inversion of f-mode travel times for solar flows. <i>Astronomische Nachrichten</i> , 2007, 328, 234-239.	1.2	14
102	Comparison of solar horizontal velocity fields from SDO/HMI and Hinode data. <i>Astronomy and Astrophysics</i> , 2013, 552, A113.	5.1	14
103	COMPARISON BETWEEN Mg II k AND Ca II H IMAGES RECORDED BY SUNRISE/SuFI. <i>Astrophysical Journal</i> , 2014, 784, 20.	4.5	14
104	Asteroseismology of luminous red giants with <i>Kepler</i> II. Dependence of mass-loss on pulsations and radiation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 5135-5148.	4.4	14
105	Probing Surface Flows and Magnetic Activity with Time-Distance Helioseismology. <i>Symposium - International Astronomical Union</i> , 2001, 203, 189-191.	0.1	13
106	An absorbing boundary formulation for the stratified, linearized, ideal MHD equations based on an unsplit, convolutional perfectly matched layer. <i>Astronomy and Astrophysics</i> , 2010, 522, A87.	5.1	13
107	Interpretation of Helioseismic Travel Times. <i>Space Science Reviews</i> , 2015, 196, 201-219.	8.1	13
108	Asteroseismic inversions for radial differential rotation of Sun-like stars: ensemble fits. <i>Astronomy and Astrophysics</i> , 2016, 586, A79.	5.1	13

#	ARTICLE	IF	CITATIONS
109	Data compression for local correlation tracking of solar granulation. <i>Astronomy and Astrophysics</i> , 2016, 587, A9.	5.1	13
110	Average surface flows before the formation of solar active regions and their relationship to the supergranulation pattern. <i>Astronomy and Astrophysics</i> , 2019, 628, A37.	5.1	13
111	Starspot rotation rates versus activity cycle phase: Butterfly diagrams of Kepler stars are unlike that of the Sun. <i>Astronomy and Astrophysics</i> , 2019, 622, A85.	5.1	13
112	Signal and noise in helioseismic holography. <i>Astronomy and Astrophysics</i> , 2018, 620, A136.	5.1	13
113	Theory of solar oscillations in the inertial frequency range: Linear modes of the convection zone. <i>Astronomy and Astrophysics</i> , 2022, 662, A16.	5.1	13
114	Kinematics of Magnetic Bright Features in the Solar Photosphere. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 8.	7.7	12
115	Butterfly diagram of a Sun-like star observed using asteroseismology. <i>Astronomy and Astrophysics</i> , 2018, 619, L9.	5.1	12
116	Evolution and wave-like properties of the average solar supergranule. <i>Astronomy and Astrophysics</i> , 2018, 617, A97.	5.1	12
117	Measuring helioseismic travel times. <i>Astronomische Nachrichten</i> , 2007, 328, 215-222.	1.2	11
118	Anisotropy of the solar network magnetic field around the average supergranule. <i>Astronomy and Astrophysics</i> , 2015, 579, L7.	5.1	11
119	Asymmetry of Line Profiles of Stellar Oscillations Measured by Kepler for Ensembles of Solar-like Oscillators: Impact on Mode Frequencies and Dependence on Effective Temperature. <i>Astrophysical Journal</i> , 2018, 857, 119.	4.5	11
120	Sensitivity kernels for time-distance helioseismology. <i>Astronomy and Astrophysics</i> , 2018, 616, A156.	5.1	11
121	Solar-cycle variations in the spectrum of supergranulation. <i>Proceedings of the International Astronomical Union</i> , 2004, 2004, 41-44.	0.0	10
122	FIRST HIGH-RESOLUTION IMAGES OF THE SUN IN THE 2796 Å.. Mg II k LINE. <i>Astrophysical Journal Letters</i> , 2013, 776, L13.	8.3	10
123	Helioseismology of sunspots: defocusing, folding, and healing of wavefronts. <i>Astronomy and Astrophysics</i> , 2013, 558, A129.	5.1	10
124	Atmospheric-radiation boundary conditions for high-frequency waves in time-distance helioseismology. <i>Astronomy and Astrophysics</i> , 2017, 608, A109.	5.1	10
125	Atmospheric radiation boundary conditions for the Helmholtz equation. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2018, 52, 945-964.	1.9	10
126	Average motion of emerging solar active region polarities. <i>Astronomy and Astrophysics</i> , 2019, 625, A53.	5.1	10

#	ARTICLE	IF	CITATIONS
127	Sectoral r modes and periodic radial velocity variations of Sun-like stars. <i>Astronomy and Astrophysics</i> , 2019, 623, A50.	5.1	10
128	Prospects for detecting stellar activity through asteroseismology. <i>Astronomische Nachrichten</i> , 2002, 323, 251-253.	1.2	9
129	Structure and evolution of solar supergranulation using SDO/HMI data. <i>Astronomy and Astrophysics</i> , 2014, 567, A138.	5.1	9
130	Seismic analysis of HD 43587Aa, a solar-like oscillator in a multiple system. <i>Astronomy and Astrophysics</i> , 2014, 564, A34.	5.1	9
131	Solar-cycle variation of the rotational shear near the solar surface. <i>Astronomy and Astrophysics</i> , 2016, 595, A8.	5.1	9
132	An improved multi-ridge fitting method for ring-diagram helioseismic analysis. <i>Astronomy and Astrophysics</i> , 2020, 633, A109.	5.1	8
133	A journey of exploration to the polar regions of a star: probing the solar poles and the heliosphere from high helio-latitude. <i>Experimental Astronomy</i> , 2022, 54, 157-183.	3.7	8
134	Time-distance helioseismology: A new averaging scheme for measuring flow vorticity. <i>Astronomy and Astrophysics</i> , 2014, 570, A90.	5.1	8
135	Signature of solar g modes in first-order p -mode frequency shifts. <i>Astronomy and Astrophysics</i> , 2019, 629, A26.	5.1	8
136	The art of fitting p -mode spectra. <i>Astronomy and Astrophysics</i> , 1998, 132, 121-132.	2.1	8
137	Outstanding problems in local helioseismology. <i>Astronomische Nachrichten</i> , 2007, 328, 204-211.	1.2	7
138	3D Numerical Simulations of f -Mode Propagation Through Magnetic Flux Tubes. <i>Solar Physics</i> , 2011, 268, 309-320.	2.5	7
139	Moving Magnetic Features Around a Pore. <i>Astrophysical Journal, Supplement Series</i> , 2017, 229, 13.	7.7	7
140	Supervised neural networks for helioseismic ring-diagram inversions. <i>Astronomy and Astrophysics</i> , 2019, 622, A124.	5.1	7
141	Rosby modes in slowly rotating stars: depth dependence in distorted polytropes with uniform rotation. <i>Astronomy and Astrophysics</i> , 2020, 637, A65.	5.1	7
142	PMI: The Photospheric Magnetic Field Imager. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 54.	3.3	7
143	PROPAGATION OF SEISMIC WAVES THROUGH A SPATIO-TEMPORALLY FLUCTUATING MEDIUM: HOMOGENIZATION. <i>Astrophysical Journal</i> , 2013, 773, 101.	4.5	7
144	Habitability of the early Earth: liquid water under a faint young Sun facilitated by strong tidal heating due to a closer Moon. <i>Palaontologische Zeitschrift</i> , 2021, 95, 563-575.	1.6	7

#	ARTICLE	IF	CITATIONS
145	Local-area helioseismology as a diagnostic tool for solar variability. <i>Advances in Space Research</i> , 2002, 29, 1899-1910.	2.6	6
146	Propagating Linear Waves in Convectively Unstable Stellar Models: A Perturbative Approach. <i>Solar Physics</i> , 2014, 289, 1919-1929.	2.5	6
147	Solar east-west flow correlations that persist for months at low latitudes are dominated by active region inflows. <i>Astronomy and Astrophysics</i> , 2020, 644, A103.	5.1	6
148	The Solar Orbiter mission and its prospects for helioseismology. <i>Astronomische Nachrichten</i> , 2007, 328, 362-367.	1.2	5
149	Pinsker estimators for local helioseismology: inversion of travel times for mass-conserving flows. <i>Inverse Problems</i> , 2016, 32, 105002.	2.0	5
150	Intensity contrast of the average supergranule. <i>Astronomy and Astrophysics</i> , 2016, 596, A66.	5.1	5
151	The amplitude of the cross-covariance function of solar oscillations as a diagnostic tool for wave attenuation and geometrical spreading. <i>Astronomy and Astrophysics</i> , 2017, 599, A111.	5.1	5
152	Recovery of subsurface profiles of supergranular flows via iterative inversion of synthetic travel times. <i>Astronomy and Astrophysics</i> , 2017, 607, A129.	5.1	5
153	Detection of Rossby modes with even azimuthal orders using helioseismic normal-mode coupling. <i>Astronomy and Astrophysics</i> , 2021, 652, A96.	5.1	5
154	How to Estimate the Far-Side Open Flux Using STEREO Coronal Holes. <i>Solar Physics</i> , 2021, 296, 1.	2.5	5
155	Power spectrum of turbulent convection in the solar photosphere. <i>Astronomy and Astrophysics</i> , 2020, 644, A44.	5.1	5
156	TOMOGRAPHY OF THE SOLAR INTERIOR. <i>Modern Physics Letters A</i> , 2006, 21, 1701-1715.	1.2	4
157	Image compression in local helioseismology. <i>Astronomy and Astrophysics</i> , 2014, 571, A42.	5.1	4
158	Probing sunspots with two-skip time-distance helioseismology. <i>Astronomy and Astrophysics</i> , 2018, 613, A73.	5.1	4
159	Radiative Transfer with Opacity Distribution Functions: Application to Narrowband Filters. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 3.	7.7	4
160	Evolution of solar surface inflows around emerging active regions. <i>Astronomy and Astrophysics</i> , 2021, 652, A148.	5.1	4
161	The forward and inverse problems in time-distance helioseismology. <i>Journal of Physics: Conference Series</i> , 2008, 118, 012033.	0.4	3
162	Simulating acoustic waves in spotted stars. <i>Astronomy and Astrophysics</i> , 2015, 577, A145.	5.1	3

#	ARTICLE	IF	CITATIONS
163	Comparison of Travel-Time and Amplitude Measurements for Deep-Focusing Timeâ€Distance Helioseismology. Solar Physics, 2018, 293, 1.	2.5	3
164	Asteroseismic Signature of a Large Active Region. Frontiers in Astronomy and Space Sciences, 2019, 6, .	2.8	3
165	Characterizing the spatial pattern of solar supergranulation using the bispectrum. Astronomy and Astrophysics, 2020, 635, A181.	5.1	3
166	Efficient and Accurate Algorithm for the Full Modal Green's Kernel of the Scalar Wave Equation in Helioseismology. SIAM Journal on Applied Mathematics, 2020, 80, 2657-2683.	1.8	3
167	The Maximum Entropy Limit of Small-scale Magnetic Field Fluctuations in the Quiet Sun. Astrophysical Journal, Supplement Series, 2017, 233, 5.	7.7	3
168	Predicting frequency changes of global-scale solar Rossby modes due to solar cycle changes in internal rotation. Astronomy and Astrophysics, 2020, 640, L10.	5.1	3
169	Helioseismology of Sunspots: Confronting Observations with Three-Dimensional MHD Simulations of Wave Propagation. , 2008, , 291-308.		2
170	Joint Discussion 17 Highlights of recent progress in the seismology of the Sun and Sun-like stars. Proceedings of the International Astronomical Union, 2006, 2, 491-516.	0.0	1
171	Outgoing modal solutions for Galbrun's equation in helioseismology. Journal of Differential Equations, 2021, 286, 494-530.	2.2	1
172	Modelling continuum intensity perturbations caused by solar acoustic oscillations. Astronomy and Astrophysics, 2021, 654, A1.	5.1	1
173	Comments on the Influence of Solar Activity on P-Mode Oscillation Spectra. , 1998, , 173-174.		1
174	Loi and Gong Low-Degree Rotational Splittings. Symposium - International Astronomical Union, 1998, 185, 167-168.	0.1	0
175	Comments on the Influence of Solar Activity on P-Mode Oscillation Spectra. Symposium - International Astronomical Union, 1998, 185, 173-174.	0.1	0
176	LOI/SOHO Constraints on Oblique Rotation of the Solar Core. Symposium - International Astronomical Union, 1998, 185, 37-40.	0.1	0
177	The Art of Fitting P-Mode Spectra. Symposium - International Astronomical Union, 1998, 185, 43-44.	0.1	0
178	Editors' note: Astron. Nachr. 3â€4/2007. Astronomische Nachrichten, 2007, 328, 203-203.	1.2	0
179	COMMISSION 12: SOLAR RADIATION AND STRUCTURE. Proceedings of the International Astronomical Union, 2008, 4, 104-123.	0.0	0
180	Interactive conference picture. Journal of Physics: Conference Series, 2008, 118, 011002.	0.4	0

#	ARTICLE	IF	CITATIONS
181	Special session. Journal of Physics: Conference Series, 2008, 118, 011004.	0.4	0
182	HELAS: local helioseismology data website. Journal of Physics: Conference Series, 2008, 118, 012087.	0.4	0
183	HELAS II International Conference. Journal of Physics: Conference Series, 2008, 118, 011001.	0.4	0
184	Four years of HELAS. Astronomische Nachrichten, 2010, 331, 1084-1089.	1.2	0
185	Statistics of the two-point cross-covariance function of solar oscillations. Astronomy and Astrophysics, 2016, 593, A41.	5.1	0
186	Helioseismological determination of the subsurface spatial spectrum of solar convection: Demonstration using numerical simulations. Astronomy and Astrophysics, 2021, 649, A59.	5.1	0
187	Seismic Tomography of the Near Solar Surface. International Astronomical Union Colloquium, 2000, 179, 339-342.	0.1	0
188	Helioseismology of Sunspots: A Case Study of NOAA Region 9787. Space Sciences Series of ISSI, 2008, , 249-273.	0.0	0
189	Structure and Evolution of Supergranulation from Local Helioseismology. , 2008, , 415-435.		0
190	Magnetic Flux Transport at the Solar Surface. Space Sciences Series of ISSI, 2015, , 491-523.	0.0	0
191	Helioseismology with Solar Orbiter. Space Sciences Series of ISSI, 2017, , 257-289.	0.0	0
192	Preface: Helioseismology and Dynamics of the Solar Interior. Space Sciences Series of ISSI, 2017, , 1-5.	0.0	0
193	Interpretation of Helioseismic Travel Times. Space Sciences Series of ISSI, 2017, , 207-225.	0.0	0
194	Acoustic wave propagation through solar granulation: Validity of effective-medium theories, coda waves. Astronomy and Astrophysics, 2020, 643, A168.	5.1	0