Mikkel N. Lund

List of Publications by Year
in descending order

118 papers	7,306 citations	66234 42 h-index	66788 78 g-index
122 all docs	122 docs citations	122 times ranked	4063 citing authors

#	Article	IF	Citations
1	Study of chemically peculiar starsÂâ€“Âl. High-resolution spectroscopy and K2 photometry of Am stars in the region of M44. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5854-5871.	1.6	2
2	Scaling relations of convective granulation noise across the HR diagram from 3D stellar atmosphere models. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1741-1756.	1.6	7
3	PBjam: A Python Package for Automating Asteroseismology of Solar-like Oscillators*. Astronomical Journal, 2021, 161, 62.	1.9	16
4	Weakened magnetic braking supported by asteroseismic rotation rates of Kepler dwarfs. Nature Astronomy, 2021, 5, 707-714.	4.2	47
5	TESS Data for Asteroseismology: Photometry. Astronomical Journal, 2021, 162, 170.	1.9	14
6	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
7	TESS Data for Asteroseismology (Tâ€™DA) Stellar Variability Classification Pipeline: Setup and Application to the Kepler Q9 Data. Astronomical Journal, 2021, 162, 209.	1.9	10
8	The BAyesian STellar algorithm (<tt>BASTA</tt>): a fitting tool for stellar studies, asteroseismology, exoplanets, and Galactic archaeology. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4344-4364.	1.6	26
9	Mixed Modes and Asteroseismic Surface Effects. II. Subgiant Systematics. Astrophysical Journal, 2021, 922, 18.	1.6	6
10	TESS Data for Asteroseismology: Light-curve Systematics Correction. Astrophysical Journal, Supplement Series, 2021, 257, 53.	3.0	9
11	Extremely precise age and metallicity of the open cluster NGCÂ2506 using detached eclipsing binaries. Monthly Notices of the Royal Astronomical Society, 2020, 499, 1312-1339.	1.6	6
12	K2-280â€‰b â€“ a low density warm sub-Saturn around a mildly evolved star. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4423-4435.	1.6	2
13	TOI-503: The First Known Brown-dwarf Am-star Binary from the TESS Mission*. Astronomical Journal, 2020, 159, 151.	1.9	29
14	It Takes Two Planets in Resonance to Tango around K2-146. Astronomical Journal, 2020, 159, 120.	1.9	14
15	Detection and Characterization of Oscillating Red Giants: First Results from the TESS Satellite. Astrophysical Journal Letters, 2020, 889, L34.	3.0	37
16	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
17	TESS Data for Asteroseismology: Timing Verification[*]. Astronomical Journal, 2020, 160, 34.	1.9	9
18	The Evolution of Rotation and Magnetic Activity in 94 Aqr Aa from Asteroseismology with TESS. Astrophysical Journal, 2020, 900, 154.	1.6	18

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19	When Do Stalled Stars Resume Spinning Down? Advancing Gyrochronology with Ruprecht 147. Astrophysical Journal, 2020, 904, 140.	1.6	89
20	Bolometric corrections of stellar oscillation amplitudes as observed by the Kepler, CoRoT, and TESS missions. Monthly Notices of the Royal Astronomical Society, 2019, 489, 1072-1081.	1.6	9
21	TESS Asteroseismology of the Known Red-giant Host Stars HD 212771 and HD 203949. Astrophysical Journal, 2019, 885, 31.	1.6	28
22	The subgiant HR 7322 as an asteroseismic benchmark star. Monthly Notices of the Royal Astronomical Society, 2019, 489, 928-940.	1.6	11
23	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
24	<scp>aims</scp>â€“ a new tool for stellar parameter determinations using asteroseismic constraints. Monthly Notices of the Royal Astronomical Society, 2019, 484, 771-786.	1.6	64
25	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
26	A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. Astronomical Journal, 2019, 157, 245.	1.9	72
27	Damping rates and frequency corrections of Kepler LEGACY stars. Monthly Notices of the Royal Astronomical Society, 2019, 487, 595-608.	1.6	12
28	KOI-3890: a high-mass-ratio asteroseismic red giant+M-dwarf eclipsing binary undergoing heartbeat tidal interactions. Monthly Notices of the Royal Astronomical Society, 2019, 487, 14-23.	1.6	9
29	HD 219666 b: a hot-Neptune from TESS Sector 1. Astronomy and Astrophysics, 2019, 623, A165.	2.1	29
30	Withdrawn as Duplicate: Detection of solar-like oscillations in relics of the Milky Way: asteroseismology of K giants in M4 using data from the NASA K2 mission. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 484, L96-L96.	1.2	0
31	Detection and characterization of an ultra-dense sub-Neptunian planet orbiting the Sun-like star K2-292. Astronomy and Astrophysics, 2019, 623, A114.	2.1	11
32	Asteroseismology of the Hyades red giant and planet host Ïµ Tauri. Astronomy and Astrophysics, 2019, 622, A190.	2.1	19
33	FliPer_{Class}: In search of solar-like pulsators among TESS targets. Astronomy and Astrophysics, 2019, 624, A79.	2.1	8
34	The K2 Galactic Caps Project â€“ going beyond the Kepler field and ageing the Galactic disc. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4465-4480.	1.6	24
35	Greening of the brown-dwarf desert. Astronomy and Astrophysics, 2019, 628, A64.	2.1	19
36	A giant impact as the likely origin of different twins in the Kepler-107 exoplanet system. Nature Astronomy, 2019, 3, 416-423.	4.2	64

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37	Asteroseismology of the Multiplanet System K2-93. Astronomical Journal, 2019, 158, 248.	1.9	11
38	Signatures of Magnetic Activity: On the Relation between Stellar Properties and p-mode Frequency Variations. Astrophysical Journal, 2019, 883, 65.	1.6	10
39	The Influence of Metallicity on Stellar Differential Rotation and Magnetic Activity. Astrophysical Journal, 2018, 852, 46.	1.6	67
40	Tutorial: Asteroseismic Stellar Modelling with AIMS. Thirty Years of Astronomical Discovery With UKIRT, 2018, , 149-161.	0.3	10
41	Seismic signatures of magnetic activity in solar-type stars observed by Kepler. Proceedings of the International Astronomical Union, 2018, 13, 225-228.	0.0	0
42	Inference of Stellar Parameters from Brightness Variations. Astrophysical Journal, 2018, 866, 15.	1.6	10
43	Aldebaran bâ€™s Temperate Past Uncovered in Planet Search Data. Astrophysical Journal Letters, 2018, 865, L20.	3.0	15
44	Signatures of Magnetic Activity in the Seismic Data of Solar-type Stars Observed by Kepler. Astrophysical Journal, Supplement Series, 2018, 237, 17.	3.0	37
45	HD 89345: a bright oscillating star hosting a transiting warm Saturn-sized planet observed by K2. Monthly Notices of the Royal Astronomical Society, 2018, 478, 4866-4880.	1.6	25
46	Establishing the accuracy of asteroseismic mass and radius estimates of giant stars â€“ I. Three eclipsing systems at [Fe/H]Âˆ¼Âˆ’0.3 and the need for a large high-precision sample. Monthly Notices of the Royal Astronomical Society, 2018, 476, 3729-3743.	1.6	69
47	THE RADIAL VELOCITY EXPERIMENT (RAVE): FIFTH DATA RELEASE. Astronomical Journal, 2017, 153, 75.	1.9	380
48	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
49	Using red clump stars to correct theGaiaDR1 parallaxes. Astronomy and Astrophysics, 2017, 598, L4.	2.1	27
50	Standing on the Shoulders of Dwarfs: the Kepler Asteroseismic LEGACY Sample. I. Oscillation Mode Parameters. Astrophysical Journal, 2017, 835, 172.	1.6	195
51	Standing on the Shoulders of Dwarfs: the Kepler Asteroseismic LEGACY Sample. II. Radii, Masses, and Ages. Astrophysical Journal, 2017, 835, 173.	1.6	223
52	MiNDSTEp differential photometry of the gravitationally lensed quasars WFIâ€‰2033-4723 and HEâ€‰0047-1756: microlensing and a new time delay. Astronomy and Astrophysics, 2017, 597, A49.	2.1	12
53	A simple model to describe intrinsic stellar noise for exoplanet detection around red giants. Monthly Notices of the Royal Astronomical Society, 2017, 465, 1308-1315.	1.6	23
54	PLATO as it is: A legacy mission for Galactic archaeology. Astronomische Nachrichten, 2017, 338, 644-661.	0.6	61

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55	Atmospheric Extinction Coefficients in the I_c Band for Several Major International Observatories: Results from the BiSON Telescopes, 1984â€“2016. Astronomical Journal, 2017, 154, 89.	1.9	2
56	Weighing in on the masses of retired A stars with asteroseismology: K2 observations of the exoplanet-host star HD 212771. Monthly Notices of the Royal Astronomical Society, 2017, 469, 1360-1368.	1.6	42
57	First Results from the Hertzsprung SONG Telescope: Asteroseismology of the G5 Subgiant Star Î¼ Herculis*. Astrophysical Journal, 2017, 836, 142.	1.6	66
58	The masses of retired A stars with asteroseismology: Kepler and K2 observations of exoplanet hosts. Monthly Notices of the Royal Astronomical Society, 2017, 472, 1866-1878.	1.6	44
59	Spatial incoherence of solar granulation: a global analysis using BiSON 2B data. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3256-3263.	1.6	4
60	The First APOKASC Catalog of Kepler Dwarf and Subgiant Stars. Astrophysical Journal, Supplement Series, 2017, 233, 23.	3.0	121
61	RAVE stars in K2. Astronomy and Astrophysics, 2017, 600, A66.	2.1	30
62	K2P²: Reduced data from campaigns 0â€“4 of the K2 mission. Astronomy and Astrophysics, 2017, 597, A36.	2.1	5
63	Data preparation for asteroseismology with TESS. EPJ Web of Conferences, 2017, 160, 01005.	0.1	21
64	A fitting LEGACY â€“ modellingKepler's best stars. EPJ Web of Conferences, 2017, 160, 03010.	0.1	1
65	Estimating the parameters of globular cluster M 30 (NGC 7099) from time-series photometry(Corrigendum). Astronomy and Astrophysics, 2016, 588, C2.	2.1	1
66	That's How We Roll: The NASAK2Mission Science Products and Their Performance Metrics. Publications of the Astronomical Society of the Pacific, 2016, 128, 075002.	1.0	68
67	THE K2-ESPRINT PROJECT. V. A SHORT-PERIOD GIANT PLANET ORBITING A SUBGIANT STAR*. Astronomical Journal, 2016, 152, 143.	1.9	54
68	EPICÂ201585823, a rare triple-mode RRÂLyrae star discovered in K2 mission data. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1237-1245.	1.6	18
69	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
70	Detection of solar-like oscillations in relics of the Milky Way: asteroseismology of K giants in M4 using data from the NASA K2 mission. Monthly Notices of the Royal Astronomical Society, 2016, 461, 760-765.	1.6	61
71	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
72	Hot super-Earths stripped by their host stars. Nature Communications, 2016, 7, 11201.	5.8	172

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73	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
74	The host stars ofKepler's habitable exoplanets: superflares, rotation and activity. Monthly Notices of the Royal Astronomical Society, 2016, 455, 3110-3125.	1.6	49
75	SPINâ€“ORBIT ALIGNMENT OF EXOPLANET SYSTEMS: ENSEMBLE ANALYSIS USING ASTEROSEISMOLOGY. Astrophysical Journal, 2016, 819, 85.	1.6	91
76	Oscillation frequencies for 35Keplersolar-type planet-hosting stars using Bayesian techniques and machine learning. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2183-2195.	1.6	101
77	Ages and fundamental properties ofKeplerexoplanet host stars from asteroseismology. Monthly Notices of the Royal Astronomical Society, 2015, 452, 2127-2148.	1.6	283
78	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
79	What asteroseismology can do for exoplanets. EPJ Web of Conferences, 2015, 101, 02005.	0.1	1
80	KOI-3158: The oldest known system of terrestrial-size planets. EPJ Web of Conferences, 2015, 101, 02004.	0.1	1
81	Asteroseismic inference on rotation, gyrochronology and planetary system dynamics of 16 Cygni. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2959-2966.	1.6	107
82	AN ANCIENT EXTRASOLAR SYSTEM WITH FIVE SUB-EARTH-SIZE PLANETS. Astrophysical Journal, 2015, 799, 170.	1.6	164
83	KEPLER-432: A RED GIANT INTERACTING WITH ONE OF ITS TWO LONG-PERIOD GIANT PLANETS. Astrophysical Journal, 2015, 803, 49.	1.6	70
84	OGLE-2011-BLG-0265Lb: A JOVIAN MICROLENSING PLANET ORBITING AN M DWARF. Astrophysical Journal, 2015, 804, 33.	1.6	45
85	K2P²â€”A PHOTOMETRY PIPELINE FOR THE K2 MISSION. Astrophysical Journal, 2015, 806, 30.	1.6	110
86	Asteroseismology of Solar-Type Stars withK2: Detection of Oscillations in C1 Data. Publications of the Astronomical Society of the Pacific, 2015, 127, 1038-1044.	1.0	25
87	Magnetic activity, differential rotation, and dynamo action in the pulsating F9IV star KIC 5955122. Astronomy and Astrophysics, 2014, 569, A113.	2.1	9
88	Asteroseismic inference on the spin-orbit misalignment and stellar parameters of HAT-P-7. Astronomy and Astrophysics, 2014, 570, A54.	2.1	58
89	LIMITS ON SURFACE GRAVITIES OFKEPLERPLANET-CANDIDATE HOST STARS FROM NON-DETECTION OF SOLAR-LIKE OSCILLATIONS. Astrophysical Journal, 2014, 783, 123.	1.6	47
90	Automated preparation of Kepler time series of planet hosts for asteroseismic analysis. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2698-2709.	1.6	88

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91	High-precision photometry by telescope defocussing â€“ VI. WASP-24, WASP-25 and WASP-26â˜…. Monthly Notices of the Royal Astronomical Society, 2014, 444, 776-789.	1.6	73
92	WHAT ASTEROSEISMOLOGY CAN DO FOR EXOPLANETS: KEPLER-410A b IS A SMALL NEPTUNE AROUND A BRIGHT STAR, IN AN ECCENTRIC ORBIT CONSISTENT WITH LOW OBLIQUITY. Astrophysical Journal, 2014, 782, 14.	1.6	98
93	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
94	DIFFERENTIAL ROTATION IN MAIN-SEQUENCE SOLAR-LIKE STARS: QUALITATIVE INFERENCE FROM ASTEROSEISMIC DATA. Astrophysical Journal, 2014, 790, 121.	1.6	34
95	DETECTION OF â„“ = 4 AND â„“ = 5 MODES IN 12 YEARS OF SOLAR VIRGO-SPM DATAâ€”TESTS ONKEPLEROBSERVATIONS OF 16 Cyg A AND B. Astrophysical Journal, 2014, 782, 2.	1.6	17
96	STRÃ–MGREN SURVEY FOR ASTEROSEISMOLOGY AND GALACTIC ARCHAEOLOGY: LET THE SAGA BEGIN. Astrophysical Journal, 2014, 787, 110.	1.6	98
97	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
98	MICROLENSING DISCOVERY OF A POPULATION OF VERY TIGHT, VERY LOW MASS BINARY BROWN DWARFS. Astrophysical Journal, 2013, 768, 129.	1.6	57
99	A sub-Mercury-sized exoplanet. Nature, 2013, 494, 452-454.	13.7	193
100	Physical properties, transmission and emission spectra of the WASP-19 planetary system from multi-colour photometryâ˜…. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2-18.	1.6	90
101	High-precision photometry by telescope defocusing â€“ V. WASP-15 and WASP-16â˜…. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1300-1308.	1.6	44
102	ASTEROSEISMIC DETERMINATION OF OBLIQUITIES OF THE EXOPLANET SYSTEMS KEPLER-50 AND KEPLER-65. Astrophysical Journal, 2013, 766, 101.	1.6	158
103	KEPLER-63b: A GIANT PLANET IN A POLAR ORBIT AROUND A YOUNG SUN-LIKE STAR. Astrophysical Journal, 2013, 775, 54.	1.6	122
104	FUNDAMENTAL PROPERTIES OFKEPLERPLANET-CANDIDATE HOST STARS USING ASTEROSEISMOLOGY. Astrophysical Journal, 2013, 767, 127.	1.6	259
105	Stellar Spin-Orbit Misalignment in a Multiplanet System. Science, 2013, 342, 331-334.	6.0	262
106	Stellar granulation as seen in disk-integrated intensity. Astronomy and Astrophysics, 2013, 559, A40.	2.1	34
107	KEPLER-68: THREE PLANETS, ONE WITH A DENSITY BETWEEN THAT OF EARTH AND ICE GIANTS. Astrophysical Journal, 2013, 766, 40.	1.6	106
108	Estimating the parameters of globular cluster Mâ€‰30 (NGC 7099) from time-series photometry. Astronomy and Astrophysics, 2013, 555, A36.	2.1	17

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109	The transiting system GJ1214: high-precision defocused transit observations and a search for evidence of transit timing variation. Astronomy and Astrophysics, 2013, 549, A10.	2.1	58
110	A giant planet beyond the snow line in microlensing event OGLE-2011-BLG-0251. Astronomy and Astrophysics, 2013, 552, A70.	2.1	30
111	A new method to detect solar-like oscillations at very low S/N using statistical significance testing. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1784-1792.	1.6	8
112	Kepler-36: A Pair of Planets with Neighboring Orbits and Dissimilar Densities. Science, 2012, 337, 556-559.	6.0	335
113	CHARACTERIZING LOW-MASS BINARIES FROM OBSERVATION OF LONG-TIMESCALE CAUSTIC-CROSSING GRAVITATIONAL MICROLENSING EVENTS. Astrophysical Journal, 2012, 755, 91.	1.6	25
114	A NEW TYPE OF AMBIGUITY IN THE PLANET AND BINARY INTERPRETATIONS OF CENTRAL PERTURBATIONS OF HIGH-MAGNIFICATION GRAVITATIONAL MICROLENSING EVENTS. Astrophysical Journal, 2012, 756, 48.	1.6	20
115	MICROLENSING BINARIES WITH CANDIDATE BROWN DWARF COMPANIONS. Astrophysical Journal, 2012, 760, 116.	1.6	39
116	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
117	High-precision photometry by telescope defocusing - IV. Confirmation of the huge radius of WASP-17â€‰b. Monthly Notices of the Royal Astronomical Society, 2012, 426, 1338-1348.	1.6	61
118	Confirming chemical clocks: asteroseismic age dissection of the Milky Way disk(s). Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	95