

Mikkel N. Lund

List of Publications by Year in descending order

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118
papers

7,306
citations

66234

42
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66788

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122
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122
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122
times ranked

4063
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	THE RADIAL VELOCITY EXPERIMENT (RAVE): FIFTH DATA RELEASE. <i>Astronomical Journal</i> , 2017, 153, 75.	1.9	380
3	Kepler-36: A Pair of Planets with Neighboring Orbits and Dissimilar Densities. <i>Science</i> , 2012, 337, 556-559.	6.0	335
4	Ages and fundamental properties of <i>Kepler</i> exoplanet host stars from asteroseismology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 2127-2148.	1.6	283
5	Stellar Spin-Orbit Misalignment in a Multiplanet System. <i>Science</i> , 2013, 342, 331-334.	6.0	262
6	FUNDAMENTAL PROPERTIES OF <i>KEPLER</i> PLANET-CANDIDATE HOST STARS USING ASTEROSEISMOLOGY. <i>Astrophysical Journal</i> , 2013, 767, 127.	1.6	259
7	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
8	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
9	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
10	A sub-Mercury-sized exoplanet. <i>Nature</i> , 2013, 494, 452-454.	13.7	193
11	Hot super-Earths stripped by their host stars. <i>Nature Communications</i> , 2016, 7, 11201.	5.8	172
12	AN ANCIENT EXTRASOLAR SYSTEM WITH FIVE SUB-EARTH-SIZE PLANETS. <i>Astrophysical Journal</i> , 2015, 799, 170.	1.6	164
13	ASTEROSEISMIC DETERMINATION OF OBLIQUITIES OF THE EXOPLANET SYSTEMS KEPLER-50 AND KEPLER-65. <i>Astrophysical Journal</i> , 2013, 766, 101.	1.6	158
14	KEPLER-63b: A GIANT PLANET IN A POLAR ORBIT AROUND A YOUNG SUN-LIKE STAR. <i>Astrophysical Journal</i> , 2013, 775, 54.	1.6	122
15	The First APOKASC Catalog of Kepler Dwarf and Subgiant Stars. <i>Astrophysical Journal, Supplement Series</i> , 2017, 233, 23.	3.0	121
16	K2P ² – A PHOTOMETRY PIPELINE FOR THE K2 MISSION. <i>Astrophysical Journal</i> , 2015, 806, 30.	1.6	110
17	Asteroseismic inference on rotation, gyrochronology and planetary system dynamics of 16 Cygni. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 2959-2966.	1.6	107
18	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

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19	Oscillation frequencies for 35 <i>Kepler</i> solar-type planet-hosting stars using Bayesian techniques and machine learning. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 2183-2195.	1.6	101
20	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. <i>Astrophysical Journal</i> , 2014, 782, 14.	1.6	98
21	STRÅ-MGREN SURVEY FOR ASTEROSEISMOLOGY AND GALACTIC ARCHAEOLOGY: LET THE SAGA BEGIN. <i>Astrophysical Journal</i> , 2014, 787, 110.	1.6	98
22	Confirming chemical clocks: asteroseismic age dissection of the Milky Way disk(s). <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	95
23	SPIN-ORBIT ALIGNMENT OF EXOPLANET SYSTEMS: ENSEMBLE ANALYSIS USING ASTEROSEISMOLOGY. <i>Astrophysical Journal</i> , 2016, 819, 85.	1.6	91
24	Physical properties, transmission and emission spectra of the WASP-19 planetary system from multi-colour photometry.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 2-18.	1.6	90
25	When Do Stalled Stars Resume Spinning Down? Advancing Gyrochronology with Ruprecht 147. <i>Astrophysical Journal</i> , 2020, 904, 140.	1.6	89
26	Automated preparation of Kepler time series of planet hosts for asteroseismic analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 2698-2709.	1.6	88
27	OSCILLATING RED GIANTS OBSERVED DURING CAMPAIGN 1 OF THE <i>KEPLER</i> K2 MISSION: NEW PROSPECTS FOR GALACTIC ARCHAEOLOGY. <i>Astrophysical Journal Letters</i> , 2015, 809, L3.	3.0	84
28	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
29	High-precision photometry by telescope defocussing - VI. WASP-24, WASP-25 and WASP-26.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 776-789.	1.6	73
30	A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. <i>Astronomical Journal</i> , 2019, 157, 245.	1.9	72
31	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
32	Establishing the accuracy of asteroseismic mass and radius estimates of giant stars - I. Three eclipsing systems at $[Fe/H] \sim 0.3$ and the need for a large high-precision sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 3729-3743.	1.6	69
33	That's How We Roll: The NASA <i>K2</i> Mission Science Products and Their Performance Metrics. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 075002.	1.0	68
34	The Influence of Metallicity on Stellar Differential Rotation and Magnetic Activity. <i>Astrophysical Journal</i> , 2018, 852, 46.	1.6	67
35	First Results from the Hertzsprung SONG Telescope: Asteroseismology of the G5 Subgiant Star ϵ Herculis*. <i>Astrophysical Journal</i> , 2017, 836, 142.	1.6	66
36	<i>scp</i> aims - a new tool for stellar parameter determinations using asteroseismic constraints. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 771-786.	1.6	64

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37	A giant impact as the likely origin of different twins in the Kepler-107 exoplanet system. <i>Nature Astronomy</i> , 2019, 3, 416-423.	4.2	64
38	High-precision photometry by telescope defocusing - IV. Confirmation of the huge radius of WASP-17. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 426, 1338-1348.	1.6	61
39	Detection of solar-like oscillations in relics of the Milky Way: asteroseismology of K giants in M4 using data from the NASA K2 mission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 760-765.	1.6	61
40	PLATO as it is: A legacy mission for Galactic archaeology. <i>Astronomische Nachrichten</i> , 2017, 338, 644-661.	0.6	61
41	The transiting system GJ1214: high-precision defocused transit observations and a search for evidence of transit timing variation. <i>Astronomy and Astrophysics</i> , 2013, 549, A10.	2.1	58
42	Asteroseismic inference on the spin-orbit misalignment and stellar parameters of HAT-P-7. <i>Astronomy and Astrophysics</i> , 2014, 570, A54.	2.1	58
43	The Asteroseismic Target List for Solar-like Oscillators Observed in 2 minute Cadence with the Transiting Exoplanet Survey Satellite. <i>Astrophysical Journal, Supplement Series</i> , 2019, 241, 12.	3.0	58
44	MICROLENSING DISCOVERY OF A POPULATION OF VERY TIGHT, VERY LOW MASS BINARY BROWN DWARFS. <i>Astrophysical Journal</i> , 2013, 768, 129.	1.6	57
45	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
46	THE K2-ESPRINT PROJECT. V. A SHORT-PERIOD GIANT PLANET ORBITING A SUBGIANT STAR*. <i>Astronomical Journal</i> , 2016, 152, 143.	1.9	54
47	The host stars of Kepler's habitable exoplanets: superflares, rotation and activity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 3110-3125.	1.6	49
48	LIMITS ON SURFACE GRAVITIES OF KEPLER PLANET-CANDIDATE HOST STARS FROM NON-DETECTION OF SOLAR-LIKE OSCILLATIONS. <i>Astrophysical Journal</i> , 2014, 783, 123.	1.6	47
49	Weakened magnetic braking supported by asteroseismic rotation rates of Kepler dwarfs. <i>Nature Astronomy</i> , 2021, 5, 707-714.	4.2	47
50	Age dating of an early Milky Way merger via asteroseismology of the naked-eye star γ Indi. <i>Nature Astronomy</i> , 2020, 4, 382-389.	4.2	46
51	OGLE-2011-BLG-0265Lb: A JOVIAN MICROLENSING PLANET ORBITING AN M DWARF. <i>Astrophysical Journal</i> , 2015, 804, 33.	1.6	45
52	High-precision photometry by telescope defocusing - V. WASP-15 and WASP-16.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 1300-1308.	1.6	44
53	The masses of retired A stars with asteroseismology: Kepler and K2 observations of exoplanet hosts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 1866-1878.	1.6	44
54	Weighing in on the masses of retired A stars with asteroseismology: K2 observations of the exoplanet-host star HD 212771. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 1360-1368.	1.6	42

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55	Helium abundance in a sample of cool stars: measurements from asteroseismology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 4678-4694.	1.6	42
56	MICROLENSING BINARIES WITH CANDIDATE BROWN DWARF COMPANIONS. <i>Astrophysical Journal</i> , 2012, 760, 116.	1.6	39
57	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
58	Signatures of Magnetic Activity in the Seismic Data of Solar-type Stars Observed by Kepler. <i>Astrophysical Journal, Supplement Series</i> , 2018, 237, 17.	3.0	37
59	Detection and Characterization of Oscillating Red Giants: First Results from the TESS Satellite. <i>Astrophysical Journal Letters</i> , 2020, 889, L34.	3.0	37
60	Stellar granulation as seen in disk-integrated intensity. <i>Astronomy and Astrophysics</i> , 2013, 559, A40.	2.1	34
61	DIFFERENTIAL ROTATION IN MAIN-SEQUENCE SOLAR-LIKE STARS: QUALITATIVE INFERENCE FROM ASTEROSEISMIC DATA. <i>Astrophysical Journal</i> , 2014, 790, 121.	1.6	34
62	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
63	A giant planet beyond the snow line in microlensing event OGLE-2011-BLG-0251. <i>Astronomy and Astrophysics</i> , 2013, 552, A70.	2.1	30
64	RAVE stars in K2. <i>Astronomy and Astrophysics</i> , 2017, 600, A66.	2.1	30
65	HD 219666 b: a hot-Neptune from TESS Sector 1. <i>Astronomy and Astrophysics</i> , 2019, 623, A165.	2.1	29
66	TOI-503: The First Known Brown-dwarf Am-star Binary from the TESS Mission*. <i>Astronomical Journal</i> , 2020, 159, 151.	1.9	29
67	TESS Asteroseismology of the Known Red-giant Host Stars HD 212771 and HD 203949. <i>Astrophysical Journal</i> , 2019, 885, 31.	1.6	28
68	Using red clump stars to correct the <i>Gaia</i> DR1 parallaxes. <i>Astronomy and Astrophysics</i> , 2017, 598, L4.	2.1	27
69	The BAYesian STellar algorithm (BASTA): a fitting tool for stellar studies, asteroseismology, exoplanets, and Galactic archaeology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 4344-4364.	1.6	26
70	CHARACTERIZING LOW-MASS BINARIES FROM OBSERVATION OF LONG-TIMESCALE CAUSTIC-CROSSING GRAVITATIONAL MICROLENSING EVENTS. <i>Astrophysical Journal</i> , 2012, 755, 91.	1.6	25
71	Asteroseismology of Solar-Type Stars with <i>K2</i> : Detection of Oscillations in C1 Data. <i>Publications of the Astronomical Society of the Pacific</i> , 2015, 127, 1038-1044.	1.0	25
72	HD 89345: a bright oscillating star hosting a transiting warm Saturn-sized planet observed by K2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 4866-4880.	1.6	25

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73	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
74	The K2 Galactic Caps Project – going beyond the Kepler field and ageing the Galactic disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4465-4480.	1.6	24
75	A simple model to describe intrinsic stellar noise for exoplanet detection around red giants. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 1308-1315.	1.6	23
76	Data preparation for asteroseismology with TESS. <i>EPJ Web of Conferences</i> , 2017, 160, 01005.	0.1	21
77	A NEW TYPE OF AMBIGUITY IN THE PLANET AND BINARY INTERPRETATIONS OF CENTRAL PERTURBATIONS OF HIGH-MAGNIFICATION GRAVITATIONAL MICROLENSING EVENTS. <i>Astrophysical Journal</i> , 2012, 756, 48.	1.6	20
78	Asteroseismology of the Hyades red giant and planet host μ Tauri. <i>Astronomy and Astrophysics</i> , 2019, 622, A190.	2.1	19
79	Greening of the brown-dwarf desert. <i>Astronomy and Astrophysics</i> , 2019, 628, A64.	2.1	19
80	EPIC 201585823, a rare triple-mode RR Lyrae star discovered in K2 mission data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 1237-1245.	1.6	18
81	The Evolution of Rotation and Magnetic Activity in 94 Aqr Aa from Asteroseismology with TESS. <i>Astrophysical Journal</i> , 2020, 900, 154.	1.6	18
82	Estimating the parameters of globular cluster M30 (NGC 7099) from time-series photometry. <i>Astronomy and Astrophysics</i> , 2013, 555, A36.	2.1	17
83	DETECTION OF $\nu = 4$ AND $\nu = 5$ MODES IN 12 YEARS OF SOLAR VIRGO-SPM DATA – TESTS ON KEPLER OBSERVATIONS OF 16 Cyg A AND B. <i>Astrophysical Journal</i> , 2014, 782, 2.	1.6	17
84	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
85	PBJam: A Python Package for Automating Asteroseismology of Solar-like Oscillators*. <i>Astronomical Journal</i> , 2021, 161, 62.	1.9	16
86	Aldebaran’s Temperate Past Uncovered in Planet Search Data. <i>Astrophysical Journal Letters</i> , 2018, 865, L20.	3.0	15
87	It Takes Two Planets in Resonance to Tango around K2-146. <i>Astronomical Journal</i> , 2020, 159, 120.	1.9	14
88	TESS Data for Asteroseismology: Photometry. <i>Astronomical Journal</i> , 2021, 162, 170.	1.9	14
89	MINSTEp differential photometry of the gravitationally lensed quasars WFI 2033-4723 and HE 0047-1756: microlensing and a new time delay. <i>Astronomy and Astrophysics</i> , 2017, 597, A49.	2.1	12
90	Damping rates and frequency corrections of Kepler LEGACY stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 595-608.	1.6	12

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91	The subgiant HR 7322 as an asteroseismic benchmark star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 928-940.	1.6	11
92	Detection and characterization of an ultra-dense sub-Neptunian planet orbiting the Sun-like star K2-292. <i>Astronomy and Astrophysics</i> , 2019, 623, A114.	2.1	11
93	Asteroseismology of the Multiplanet System K2-93. <i>Astronomical Journal</i> , 2019, 158, 248.	1.9	11
94	Tutorial: Asteroseismic Stellar Modelling with AIMS. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2018, , 149-161.	0.3	10
95	Inference of Stellar Parameters from Brightness Variations. <i>Astrophysical Journal</i> , 2018, 866, 15.	1.6	10
96	Signatures of Magnetic Activity: On the Relation between Stellar Properties and p-mode Frequency Variations. <i>Astrophysical Journal</i> , 2019, 883, 65.	1.6	10
97	TESS Data for Asteroseismology (TASDA) Stellar Variability Classification Pipeline: Setup and Application to the Kepler Q9 Data. <i>Astronomical Journal</i> , 2021, 162, 209.	1.9	10
98	Magnetic activity, differential rotation, and dynamo action in the pulsating F9IV star KIC 5955122. <i>Astronomy and Astrophysics</i> , 2014, 569, A113.	2.1	9
99	Bolometric corrections of stellar oscillation amplitudes as observed by the Kepler, CoRoT, and TESS missions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 1072-1081.	1.6	9
100	KOI-3890: a high-mass-ratio asteroseismic red giant+M-dwarf eclipsing binary undergoing heartbeat tidal interactions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 14-23.	1.6	9
101	TESS Data for Asteroseismology: Timing Verification [*] . <i>Astronomical Journal</i> , 2020, 160, 34.	1.9	9
102	TESS Data for Asteroseismology: Light-curve Systematics Correction. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 53.	3.0	9
103	A new method to detect solar-like oscillations at very low S/N using statistical significance testing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 1784-1792.	1.6	8
104	FliPer _{Class} : In search of solar-like pulsators among TESS targets. <i>Astronomy and Astrophysics</i> , 2019, 624, A79.	2.1	8
105	Scaling relations of convective granulation noise across the HR diagram from 3D stellar atmosphere models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 1741-1756.	1.6	7
106	Extremely precise age and metallicity of the open cluster NGC 2506 using detached eclipsing binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1312-1339.	1.6	6
107	Mixed Modes and Asteroseismic Surface Effects. II. Subgiant Systematics. <i>Astrophysical Journal</i> , 2021, 922, 18.	1.6	6
108	K2 ² : Reduced data from campaigns 0-4 of the K2 mission. <i>Astronomy and Astrophysics</i> , 2017, 597, A36.	2.1	5

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109	Spatial incoherence of solar granulation: a global analysis using BiSON 2B data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 3256-3263.	1.6	4
110	Atmospheric Extinction Coefficients in the I _c Band for Several Major International Observatories: Results from the BiSON Telescopes, 1984–2016. <i>Astronomical Journal</i> , 2017, 154, 89.	1.9	2
111	K2-280b a low density warm sub-Saturn around a mildly evolved star. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4423-4435.	1.6	2
112	Study of chemically peculiar stars. High-resolution spectroscopy and K ₂ photometry of Am stars in the region of M44. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 5854-5871.	1.6	2
113	What asteroseismology can do for exoplanets. <i>EPJ Web of Conferences</i> , 2015, 101, 02005.	0.1	1
114	KOI-3158: The oldest known system of terrestrial-size planets. <i>EPJ Web of Conferences</i> , 2015, 101, 02004.	0.1	1
115	Estimating the parameters of globular cluster M 30 (NGC 7099) from time-series photometry (Corrigendum). <i>Astronomy and Astrophysics</i> , 2016, 588, C2.	2.1	1
116	A fitting LEGACY modelling Kepler's best stars. <i>EPJ Web of Conferences</i> , 2017, 160, 03010.	0.1	1
117	Seismic signatures of magnetic activity in solar-type stars observed by Kepler. <i>Proceedings of the International Astronomical Union</i> , 2018, 13, 225-228.	0.0	0
118	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. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 484, L96-L96.	1.2	0