Thomas Nordlander

List of Publications by Year
in descending order

74 papers	3,089 citations	136740 32 h-index	161609 54 g-index
74 all docs	74 docs citations	74 times ranked	2389 citing authors

#	Article	IF	Citations
1	The GALAH+ survey: Third data release. Monthly Notices of the Royal Astronomical Society, 2021, 506, 150-201.	1.6	293
2	The GALAH Survey: second data release. Monthly Notices of the Royal Astronomical Society, 2018, 478, 4513-4552.	1.6	269
3	<i>Gaia</i>FGK benchmark stars: Metallicity. Astronomy and Astrophysics, 2014, 564, A133.	2.1	227
4	The<i>Gaia</i>-ESO Survey: The analysis of high-resolution UVES spectra of FGK-type stars. Astronomy and Astrophysics, 2014, 570, A122.	2.1	165
5	The<i>Gaia</i>-ESO Survey: radial metallicity gradients and age-metallicity relation of stars in the Milky Way disk. Astronomy and Astrophysics, 2014, 565, A89.	2.1	158
6	<i>Gaia</i>FGK benchmark stars: abundances of<i>Î±</i>and iron-peak elements. Astronomy and Astrophysics, 2015, 582, A81.	2.1	123
7	Non-LTE aluminium abundances in late-type stars. Astronomy and Astrophysics, 2017, 607, A75.	2.1	93
8	The GALAH survey: An abundance, age, and kinematic inventory of the solar neighbourhood made with TGAS. Astronomy and Astrophysics, 2019, 624, A19.	2.1	91
9	Discovery of a nearby 1700ÂkmÂsâˆ’1 star ejected from the Milky Way by SgrÂA*. Monthly Notices of the Royal Astronomical Society, 2020, 491, 2465-2480.	1.6	73
10	3D NLTE analysis of the most iron-deficient star, SMSS0313-6708. Astronomy and Astrophysics, 2017, 597, A6.	2.1	70
11	The GALAH survey: tracing the Galactic disc with open clusters. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3279-3296.	1.6	63
12	A COMPARISON OF STELLAR ELEMENTAL ABUNDANCE TECHNIQUES AND MEASUREMENTS. Astrophysical Journal, Supplement Series, 2016, 226, 4.	3.0	59
13	The GALAH survey and Gaia DR2: Linking ridges, arches, and vertical waves in the kinematics of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2019, 489, 4962-4979.	1.6	58
14	Effective temperature determinations of late-type stars based on 3D non-LTE Balmer line formation. Astronomy and Astrophysics, 2018, 615, A139.	2.1	56
15	ATOMIC DIFFUSION AND MIXING IN OLD STARS. III. ANALYSIS OF NGC 6397 STARS UNDER NEW CONSTRAINTS. Astrophysical Journal, 2012, 753, 48.	1.6	55
16	The<i>Gaia</i>-ESO Survey: Sodium and aluminium abundances in giants and dwarfs. Astronomy and Astrophysics, 2016, 589, A115.	2.1	55
17	The lowest detected stellar Fe abundance: the halo star SMSS J160540.18âˆ’144323.1. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 488, L109-L113.	1.2	55
18	The GALAH Survey: non-LTE departure coefficients for large spectroscopic surveys. Astronomy and Astrophysics, 2020, 642, A62.	2.1	55

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19	The K2-HERMES Survey: age and metallicity of the thick disc. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5335-5352.	1.6	54
20	The SkyMapper DR1.1 search for extremely metal-poor stars. Monthly Notices of the Royal Astronomical Society, 2019, 489, 5900-5918.	1.6	49
21	The GALAH survey: effective temperature calibration from the InfraRed Flux Method in the <i>Gaia</i> system. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2684-2696.	1.6	46
22	Atomic diffusion and mixing in old stars. Astronomy and Astrophysics, 2014, 567, A72.	2.1	44
23	r-Process elements from magnetorotational hypernovae. Nature, 2021, 595, 223-226.	13.7	44
24	3D NLTE spectral line formation of lithium in late-type stars. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2159-2176.	1.6	44
25	The GALAH Survey: chemical tagging and chrono-chemodynamics of accreted halo stars with GALAH+ DR3 and <i>Gaia</i> eDR3. Monthly Notices of the Royal Astronomical Society, 2022, 510, 2407-2436.	1.6	44
26	How Magnetic Activity Alters What We Learn from Stellar Spectra. Astrophysical Journal, 2020, 895, 52.	1.6	43
27	SkyMapper stellar parameters for Galactic Archaeology on a grand-scale. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	41
28	The GALAH survey: verifying abundance trends in the open cluster M67 using non-LTE modelling. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2666-2684.	1.6	41
29	The<i>Gaia</i>-ESO Survey: A globular cluster escapee in the Galactic halo. Astronomy and Astrophysics, 2015, 575, L12.	2.1	40
30	Accurate effective temperatures of the metal-poor benchmark stars HDâ€‰140283, HDâ€‰122563, and HDâ€‰103095 from CHARA interferometry. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 475, L81-L85.	1.2	40
31	Exploring the Galaxyâ€™s halo and very metal-weak thick disc with <i>SkyMapper</i> and <i>Gaia</i> DR2. Monthly Notices of the Royal Astronomical Society, 2021, 503, 2539-2561.	1.6	36
32	Abundances of disk and bulge giants from high-resolution optical spectra. Astronomy and Astrophysics, 2017, 598, A100.	2.1	35
33	Fundamental relations for the velocity dispersion of stars in the Milky Way. Monthly Notices of the Royal Astronomical Society, 2021, 506, 1761-1776.	1.6	35
34	Fundamental stellar parameters of benchmark stars from CHARA interferometry. Astronomy and Astrophysics, 2020, 640, A25.	2.1	30
35	The GALAH survey and Gaia DR2: (non-)existence of five sparse high-latitude open clusters. Monthly Notices of the Royal Astronomical Society, 2018, 480, 5242-5259.	1.6	25
36	A minimum dilution scenario for supernovae and consequences for extremely metal-poor stars. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3703-3712.	1.6	25

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37	Milky Way Tomography with the SkyMapper Southern Survey. II. Photometric Recalibration of SMSS DR2. Astrophysical Journal, 2021, 907, 68.	1.6	25
38	The GALAH survey: accurate radial velocities and library of observed stellar template spectra. Monthly Notices of the Royal Astronomical Society, 2018, 481, 645-654.	1.6	24
39	The GALAH survey: temporal chemical enrichment of the galactic disc. Monthly Notices of the Royal Astronomical Society, 2020, 491, 2043-2056.	1.6	21
40	The GALAH survey: a new constraint on cosmological lithium and Galactic lithium evolution from warm dwarf stars. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 497, L30-L34.	1.2	20
41	High-resolution spectroscopic follow-up of the most metal-poor candidates from SkyMapper DR1.1. Monthly Notices of the Royal Astronomical Society, 2021, 507, 4102-4119.	1.6	20
42	The K2 Galactic Archaeology Program Data Release 3: Age-abundance Patterns in C1â€“C8 and C10â€“C18. Astrophysical Journal, 2022, 926, 191.	1.6	19
43	The GALAH Survey: Chemically tagging the Fimbulthul stream to the globular cluster Ï‰ Centauri. Monthly Notices of the Royal Astronomical Society, 2020, 491, 3374-3384.	1.6	15
44	The GALAH Survey: lithium-strong KM dwarfs. Monthly Notices of the Royal Astronomical Society, 2019, 484, 4591-4600.	1.6	12
45	The GALAH survey: co-orbiting stars and chemical tagging. Monthly Notices of the Royal Astronomical Society, 2019, 482, 5302-5315.	1.6	12
46	Characterization of 92 southern <i>TESS</i> candidate planet hosts and a new photometric [Fe/H] relation for cool dwarfs. Monthly Notices of the Royal Astronomical Society, 2021, 504, 5788-5805.	1.6	11
47	The GALAH survey: Chemical homogeneity of the Orion complex. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4232-4250.	1.6	11
48	The GALAH survey: accreted stars also inhabit the Spite plateau. Monthly Notices of the Royal Astronomical Society, 2021, 507, 43-54.	1.6	11
49	Keck HIRES spectroscopy of SkyMapper commissioning survey candidate extremely metal-poor stars. Monthly Notices of the Royal Astronomical Society, 2019, 485, 5153-5167.	1.6	10
50	NLTE Radiative Transfer in Cool Stars. GeoPlanet: Earth and Planetary Sciences, 2014, , 169-185.	0.2	10
51	Non-detection of 6Li in Spite plateau stars with ESPRESSO. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1521-1535.	1.6	10
52	The destruction of an Oort Cloud in a rich stellar cluster. Astronomy and Astrophysics, 2017, 603, A112.	2.1	9
53	On the AGB stars of Mâ€‰4: a robust disagreement between spectroscopic observations and theory. Monthly Notices of the Royal Astronomical Society, 2018, 481, 373-395.	1.6	9
54	A Data-driven Model of Nucleosynthesis with Chemical Tagging in a Lower-dimensional Latent Space. Astrophysical Journal, 2019, 887, 73.	1.6	9

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55	The GALAH Survey: using galactic archaeology to refine our knowledge of <i>TESS</i> target stars. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4968-4989.	1.6	9
56	Combined APOGEE-GALAH stellar catalogues using the Cannon. Monthly Notices of the Royal Astronomical Society, 2022, 513, 232-255.	1.6	9
57	The GALAH Survey: No Chemical Evidence of an Extragalactic Origin for the Nyx Stream. Astrophysical Journal Letters, 2021, 912, L30.	3.0	7
58	The GALAH+ Survey: A new library of observed stellar spectra improves radial velocities and hints at motions within M67. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	7
59	The GALAH survey: characterization of emission-line stars with spectral modelling using autoencoders. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4849-4865.	1.6	7
60	The LUMBA UVES stellar parameter pipeline. Astronomy and Astrophysics, 2019, 629, A74.	2.1	6
61	The GALAH survey: a catalogue of carbon-enhanced stars and CEMP candidates. Monthly Notices of the Royal Astronomical Society, 2019, 483, 3196-3212.	1.6	6
62	The GALAH survey: velocity fluctuations in the Milky Way using Red Clump giants. Monthly Notices of the Royal Astronomical Society, 2019, 482, 4215-4232.	1.6	6
63	Fundamental stellar parameters of benchmark stars from CHARA interferometry. Astronomy and Astrophysics, 2022, 658, A47.	2.1	6
64	The GALAH Survey: A New Sample of Extremely Metal-poor Stars Using a Machine-learning Classification Algorithm. Astrophysical Journal, 2022, 930, 47.	1.6	5
65	The GALAH survey: unresolved triple Sun-like stars discovered by the Gaia mission. Monthly Notices of the Royal Astronomical Society, 2019, 487, 2474-2490.	1.6	4
66	A spectroscopically confirmed <i>Gaia</i>-selected sample of 318 new young stars within âˆ¼200Âpc. Monthly Notices of the Royal Astronomical Society, 2021, 503, 938-952.	1.6	4
67	Atomic diffusion and mixing in old stars. Astronomy and Astrophysics, 2021, 652, A75.	2.1	4
68	Fundamental stellar parameters of benchmark stars from CHARA interferometry. Astronomy and Astrophysics, 2022, 658, A48.	2.1	4
69	Dynamics of passing-stars-perturbed binary star systems. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4773-4780.	1.6	3
70	The GALAH Survey: improving our understanding of confirmed and candidate planetary systems with large stellar surveys. Monthly Notices of the Royal Astronomical Society, 2021, 510, 2041-2060.	1.6	3
71	Chemical Properties of the Local Disk and Halo. II. Abundances of 3745 M Dwarfs and Subdwarfs from Improved Model Fitting of Low-resolution Spectra. Astrophysical Journal, 2022, 927, 122.	1.6	3
72	A test field forGaia. Astronomy and Astrophysics, 2017, 597, A10.	2.1	2

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73	The relationship between photometric and spectroscopic oscillation amplitudes from 3D stellar atmosphere simulations. Monthly Notices of the Royal Astronomical Society, 2021, 503, 13-27.	1.6	1
74	Emu: a case study for TDI-like imaging for infrared observation from space. Journal of Astronomical Telescopes, Instruments, and Systems, 2022, 8, .	1.0	1