

# Thomas Nordlander

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67  
papers

1,885  
citations

24  
h-index

42  
g-index

74  
ext. papers

2,489  
ext. citations

5.1  
avg, IF

4.6  
L-index

#	Paper	IF	Citations
67	The K2 Galactic Archaeology Program Data Release 3: Age-abundance Patterns in C108 and C1018. <i>Astrophysical Journal</i> , <b>2022</b> , 926, 191	4.7	2
66	Chemical Properties of the Local Disk and Halo. II. Abundances of 3745 M Dwarfs and Subdwarfs from Improved Model Fitting of Low-resolution Spectra. <i>Astrophysical Journal</i> , <b>2022</b> , 927, 122	4.7	0
65	The GALAH Survey: chemical tagging and chrono-chemodynamics of accreted halo stars with GALAH+ DR3 and Gaia eDR3. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2022</b> , 510, 2407-2436	4.3	4
64	The GALAH Survey: A New Sample of Extremely Metal-poor Stars Using a Machine-learning Classification Algorithm. <i>Astrophysical Journal</i> , <b>2022</b> , 930, 47	4.7	0
63	3D NLTE spectral line formation of lithium in late-type stars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 500, 2159-2176	4.3	15
62	Exploring the Galaxy's halo and very metal-weak thick disc with SkyMapper and Gaia DR2. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 503, 2539-2561	4.3	15
61	Characterization of 92 southern TESS candidate planet hosts and a new photometric [Fe/H] relation for cool dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 504, 5788-5805	4.3	3
60	The GALAH Survey: using galactic archaeology to refine our knowledge of TESS target stars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 504, 4968-4989	4.3	5
59	The GALAH+ survey: Third data release. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 506, 150-201	4.3	70
58	The GALAH Survey: No Chemical Evidence of an Extragalactic Origin for the Nyx Stream. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 912, L30	7.9	2
57	Fundamental relations for the velocity dispersion of stars in the Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 506, 1761-1776	4.3	12
56	The GALAH survey: Chemical homogeneity of the Orion complex. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 506, 4232-4250	4.3	3
55	The GALAH survey: accreted stars also inhabit the Spite plateau. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 43-54	4.3	4
54	High-resolution spectroscopic follow-up of the most metal-poor candidates from SkyMapper DR1.1. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 4102-4119	4.3	5
53	Milky Way Tomography with the SkyMapper Southern Survey. II. Photometric Recalibration of SMSS DR2. <i>Astrophysical Journal</i> , <b>2021</b> , 907, 68	4.7	8
52	The GALAH survey: tracing the Galactic disc with open clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 503, 3279-3296	4.3	23
51	The relationship between photometric and spectroscopic oscillation amplitudes from 3D stellar atmosphere simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 503, 13-27	4.3	1

50	A spectroscopically confirmed Gaia-selected sample of 318 new young stars within ~200 pc. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 503, 938-952	4.3	1
49	r-Process elements from magnetorotational hypernovae. <i>Nature</i> , <b>2021</b> , 595, 223-226	50.4	13
48	Atomic diffusion and mixing in old stars. <i>Astronomy and Astrophysics</i> , <b>2021</b> , 652, A75	5.1	1
47	The GALAH survey: effective temperature calibration from the InfraRed Flux Method in the Gaia system. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 507, 2684-2696	4.3	10
46	How Magnetic Activity Alters What We Learn from Stellar Spectra. <i>Astrophysical Journal</i> , <b>2020</b> , 895, 52	4.7	20
45	The GALAH survey: a new constraint on cosmological lithium and Galactic lithium evolution from warm dwarf stars. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2020</b> , 497, L30-L34	4.3	13
44	The GALAH Survey: Chemically tagging the Fimbulthul stream to the globular cluster $\Omega$ Centauri. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 491, 3374-3384	4.3	13
43	Fundamental stellar parameters of benchmark stars from CHARA interferometry. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 640, A25	5.1	11
42	The GALAH Survey: non-LTE departure coefficients for large spectroscopic surveys. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 642, A62	5.1	25
41	The GALAH survey: characterization of emission-line stars with spectral modelling using autoencoders. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 500, 4849-4865	4.3	3
40	Discovery of a nearby 1700 km/s star ejected from the Milky Way by Sgr A*. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 491, 2465-2480	4.3	47
39	The GALAH survey: temporal chemical enrichment of the galactic disc. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 491, 2043-2056	4.3	15
38	A minimum dilution scenario for supernovae and consequences for extremely metal-poor stars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 498, 3703-3712	4.3	14
37	The GALAH survey and Gaia DR2: Linking ridges, arches, and vertical waves in the kinematics of the Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 489, 4962-4979	4.3	35
36	The GALAH survey: unresolved triple Sun-like stars discovered by the Gaia mission. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 487, 2474-2490	4.3	3
35	Dynamics of passing-stars-perturbed binary star systems. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 486, 4773-4780	4.3	2
34	Keck HIRES spectroscopy of SkyMapper commissioning survey candidate extremely metal-poor stars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 485, 5153-5167	4.3	9
33	The GALAH Survey: lithium-strong KM dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 484, 4591-4600	4.3	10

32	The lowest detected stellar Fe abundance: the halo star SMSS J160540.18-44323.1. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2019</b> , 488, L109-L113	4-3	30
31	The SkyMapper DR1.1 search for extremely metal-poor stars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 489, 5900-5918	4-3	28
30	A Data-driven Model of Nucleosynthesis with Chemical Tagging in a Lower-dimensional Latent Space. <i>Astrophysical Journal</i> , <b>2019</b> , 887, 73	4-7	4
29	The GALAH survey: An abundance, age, and kinematic inventory of the solar neighbourhood made with TGAS. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 624, A19	5-1	61
28	The LUMBA UVES stellar parameter pipeline. <i>Astronomy and Astrophysics</i> , <b>2019</b> , 629, A74	5-1	4
27	The K2-HERMES Survey: age and metallicity of the thick disc. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 490, 5335-5352	4-3	40
26	The GALAH survey: co-orbiting stars and chemical tagging. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 482, 5302-5315	4-3	12
25	The GALAH survey: a catalogue of carbon-enhanced stars and CEMP candidates. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 483, 3196-3212	4-3	5
24	The GALAH survey: velocity fluctuations in the Milky Way using Red Clump giants. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2019</b> , 482, 4215-4232	4-3	3
23	Accurate effective temperatures of the metal-poor benchmark stars HD 140283, HD 122563, and HD 103095 from CHARA interferometry. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2018</b> , 475, L81-L85	4-3	29
22	The GALAH survey and Gaia DR2: (non-)existence of five sparse high-latitude open clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 480, 5242-5259	4-3	21
21	SkyMapper stellar parameters for Galactic Archaeology on a grand-scale. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> ,	4-3	30
20	On the AGB stars of M 4: a robust disagreement between spectroscopic observations and theory. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 481, 373-395	4-3	5
19	Effective temperature determinations of late-type stars based on 3D non-LTE Balmer line formation. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 615, A139	5-1	36
18	The GALAH survey: verifying abundance trends in the open cluster M67 using non-LTE modelling. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 481, 2666-2684	4-3	32
17	The GALAH Survey: second data release. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 478, 4513-4552	4-3	193
16	The GALAH survey: accurate radial velocities and library of observed stellar template spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2018</b> , 481, 645-654	4-3	21
15	A test field for Gaia. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 597, A10	5-1	1

14	Non-LTE aluminium abundances in late-type stars. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 607, A75	5.1	63
13	The destruction of an Oort Cloud in a rich stellar cluster. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 603, A112	5.1	8
12	3D NLTE analysis of the most iron-deficient star, SMSS0313-6708. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 597, A6	5.1	58
11	Abundances of disk and bulge giants from high-resolution optical spectra. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 598, A100	5.1	21
10	TheGaia-ESO Survey: Sodium and aluminium abundances in giants and dwarfs. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 589, A115	5.1	44
9	A COMPARISON OF STELLAR ELEMENTAL ABUNDANCE TECHNIQUES AND MEASUREMENTS. <i>Astrophysical Journal, Supplement Series</i> , <b>2016</b> , 226, 4	8	49
8	TheGaia-ESO Survey: A globular cluster escapee in the Galactic halo. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 575, L12	5.1	32
7	GaiaFGK benchmark stars: abundances of iron-peak elements. <i>Astronomy and Astrophysics</i> , <b>2015</b> , 582, A81	5.1	95
6	Atomic diffusion and mixing in old stars. <i>Astronomy and Astrophysics</i> , <b>2014</b> , 567, A72	5.1	33
5	TheGaia-ESO Survey: The analysis of high-resolution UVES spectra of FGK-type stars. <i>Astronomy and Astrophysics</i> , <b>2014</b> , 570, A122	5.1	142
4	TheGaia-ESO Survey: radial metallicity gradients and age-metallicity relation of stars in the Milky Way disk. <i>Astronomy and Astrophysics</i> , <b>2014</b> , 565, A89	5.1	131
3	GaiaFGK benchmark stars: Metallicity. <i>Astronomy and Astrophysics</i> , <b>2014</b> , 564, A133	5.1	183
2	NLTE Radiative Transfer in Cool Stars. <i>GeoPlanet: Earth and Planetary Sciences</i> , <b>2014</b> , 169-185	0.1	5
1	ATOMIC DIFFUSION AND MIXING IN OLD STARS. III. ANALYSIS OF NGC 6397 STARS UNDER NEW CONSTRAINTS. <i>Astrophysical Journal</i> , <b>2012</b> , 753, 48	4.7	48