Thomas R Ayres

List of Publications by Year
in descending order

64 papers	1,644 citations	304743 22 h-index	289244 40 g-index
64 all docs	64 docs citations	64 times ranked	1291 citing authors

#	Article	IF	Citations
1	Deuterium and the Local Interstellar Medium Properties for the Procyon and Capella Lines of Sight. Astrophysical Journal, 1995, 451, 335.	4.5	199
2	Evolution of the solar ionizing flux. Journal of Geophysical Research, 1997, 102, 1641-1651.	3.3	175
3	Solar Carbon Monoxide, Thermal Profiling, and the Abundances of C, O, and Their Isotopes. Astrophysical Journal, Supplement Series, 2006, 165, 618-651.	7.7	110
4	Evaluating Possible Heating Mechanisms Using the Transition Region Line Profiles of Lateâ€Type Stars. Astrophysical Journal, 1997, 478, 745-765.	4.5	94
5	StarCAT: A CATALOG OF SPACE TELESCOPE IMAGING SPECTROGRAPH ULTRAVIOLET ECHELLE SPECTRA OF STARS. Astrophysical Journal, Supplement Series, 2010, 187, 149-171.	7.7	81
6	The RIASS coronathon: Joint X-ray and ultraviolet observations of normal F-K stars. Astrophysical Journal, Supplement Series, 1995, 96, 223.	7.7	79
7	Critical Science Plan for the Daniel K. Inouye Solar Telescope (DKIST). Solar Physics, 2021, 296, 1.	2.5	65
8	The Coronae of Moderateâ€Mass Giants in the Hertzsprung Gap and the Clump. Astrophysical Journal, 1998, 496, 428-448.	4.5	54
9	Buried Alive in the Coronal Graveyard. Astrophysical Journal, 2003, 598, 610-625.	4.5	51
10	Space Telescope Imaging Spectrograph Survey of Farâ€Ultraviolet Coronal Forbidden Lines in Lateâ€Type Stars. Astrophysical Journal, 2003, 583, 963-984.	4.5	48
11	Chandra,Extreme Ultraviolet Explorer, and Very Large Array Observations of the Active Binary System Ïƒ2Coronae Borealis. Astrophysical Journal, 2003, 582, 1073-1101.	4.5	46
12	A light carbon isotope composition for the Sun. Nature Communications, 2018, 9, 908.	12.8	43
13	THE UPS AND DOWNS OF Î± CENTAURI. Astronomical Journal, 2014, 147, 59.	4.7	35
14	THE CYCLES OF Î± CENTAURI. Astrophysical Journal, 2009, 696, 1931-1949.	4.5	34
15	THE FAR-ULTRAVIOLET UPS AND DOWNS OF ALPHA CENTAURI. Astronomical Journal, 2015, 149, 58.	4.7	28
16	Stellar Model Chromospheres. H. Procyon (F5 Iv/v). Astrophysical Journal, 1974, 192, 93.	4.5	28
17	Digging in the coronal graveyard - A ROSAT observation of the red giant Arcturus. Astrophysical Journal, 1991, 376, L45.	4.5	28
18	Digging Deeper in the Coronal Graveyard. Astrophysical Journal, 1997, 491, 876-884.	4.5	26

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19	The Fainting of Î± Centauri A, Resolved. Astrophysical Journal, 2008, 678, L121-L124.	4.5	25
20	Positional Uncertainties and Detection Limits ofROSATXâ€Ray Sources. Astrophysical Journal, 2004, 608, 957-970.	4.5	24
21	THE FLARE-ONA OF EK DRACONIS. Astronomical Journal, 2015, 150, 7.	4.7	24
22	Probing the Gravitational Dependence of the Fine-Structure Constant from Observations of White Dwarf Stars. Universe, 2017, 3, 32.	2.5	24
23	WARM CORONAL RAIN ON YOUNG SOLAR ANALOG EK DRACONIS?. Astrophysical Journal Letters, 2010, 723, L38-L43.	8.3	22
24	The Origin of Weakened Magnetic Braking in Old Solar Analogs. Astrophysical Journal Letters, 2022, 933, L17.	8.3	21
25	Xâ€Rays from Hybrid Stars. Astrophysical Journal, 2005, 618, 493-501.	4.5	20
26	Sleuthing the Dynamo. II.Hubble Space TelescopeGoddard High Resolution Spectrograph Observations of Solarâ€Type Dwarfs in Young Galactic Clusters. Astrophysical Journal, 1999, 525, 240-246.	4.5	20
27	New Fe i Level Energies and Line Identifications from Stellar Spectra. II. Initial Results from New Ultraviolet Spectra of Metal-poor Stars. Astrophysical Journal, Supplement Series, 2017, 229, 23.	7.7	17
28	A Multiwavelength Look at the GJ 9827 System: No Evidence of Extended Atmospheres in GJ 9827b and d from HST and CARMENES Data. Astronomical Journal, 2021, 161, 136.	4.7	17
29	Intrinsic LyÎ± Profiles of High-velocity G, K, and M Dwarfs. Astrophysical Journal, 2022, 926, 129.	4.5	16
30	The many faces of F stars - A rotational modulation study of Capella, Procyon, and Caph with the International Ultraviolet Explorer. Astrophysical Journal, 1991, 375, 704.	4.5	15
31	In the Trenches of the Solarâ€“Stellar Connection. I. Ultraviolet and X-Ray Fluxâ€“Flux Correlations across the Activity Cycles of the Sun and Alpha Centauri AB. Astrophysical Journal, Supplement Series, 2020, 250, 16.	7.7	14
32	Chandra Observations of Coronal Emission from the Early G Supergiants Î± and Î² Aquarii. Astrophysical Journal, 2005, 627, L53-L56.	4.5	13
33	Xâ€Ray and Ultraviolet Spectroscopy of Intermediateâ€Mass, First Crossing Giants. Astrophysical Journal, Supplement Series, 2007, 171, 304-330.	7.7	12
34	A Closer Look at the Alpha Persei Coronal Conundrum. Astrophysical Journal, 2017, 837, 14.	4.5	10
35	In the Trenches of the Solar-stellar Connection. IV. Solar Full-disk Scans of C ii, Si iv, and Mg ii by the Interface Region Imaging Spectrograph. Astrophysical Journal, 2021, 916, 36.	4.5	10
36	The SOHOâ€“Stellar Connection. Solar Physics, 2000, 193, 273-297.	2.5	9

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37	THE CURIOUS CASE OF THE ALPHA PERSEI CORONA: A DWARF IN SUPERGIANT'S CLOTHING?. Astrophysical Journal, 2011, 738, 120.	4.5	9
38	Cracking the Conundrum of F-supergiant Coronae. Astrophysical Journal, 2018, 854, 95.	4.5	9
39	The Advanced Spectral Library (ASTRAL): Reference Spectra for Evolved M Stars^{âˆ—}. Astrophysical Journal, 2018, 869, 157.	4.5	9
40	ANHSTCOS â€œSNAPSHOTâ€•SPECTRUM OF THE K SUPERGIANT Î» Vel (K4Ib-II). Astrophysical Journal, 2014, 794, 41.	4.5	8
41	FK COMAE BERENICES, KING OF SPIN: THE COCOA-PUFS PROJECT* â€. Astrophysical Journal, Supplement Series, 2016, 223, 5.	7.7	8
42	In the Trenches of the Solarâ€“Stellar Connection. III. The HST/COS Ecliptic-poles Stellar Survey (EclipSS). Astrophysical Journal, 2021, 910, 71.	4.5	8
43	Beyond the Coronal Graveyard. Astronomical Journal, 2018, 156, 163.	4.7	7
44	A far-UV survey of three hot, metal-polluted white dwarf stars: WD0455âˆ’282, WD0621âˆ’376, and WD2211âˆ’495. Monthly Notices of the Royal Astronomical Society, 2019, 487, 3470-3487.	4.4	7
45	In the Trenches of the Solarâ€“Stellar Connection. II. Extreme Ultraviolet Fluxâ€“Flux Correlations across Solar Cycle 24. Astrophysical Journal, 2021, 908, 205.	4.5	7
46	The Colorado scaleâ€model solar system. Physics Teacher, 1991, 29, 371-374.	0.3	5
47	Ultraviolet emission lines of Siâ€‰ii in cool star and solar spectra. Monthly Notices of the Royal Astronomical Society, 2016, 455, 3405-3412.	4.4	5
48	In the Trenches of the Solar-stellar Connection. V. High-resolution Ultraviolet and X-Ray Observations of Sun-like Stars: The Curious Case of Procyon. Astrophysical Journal, 2021, 923, 192.	4.5	5
49	Î± TrA Junior. Astrophysical Journal, 2007, 658, L107-L110.	4.5	4
50	The Deep Lamp Project: An Investigation of the Precision and Accuracy of the Echelle Wavelength Scales of Space Telescope Imaging Spectrograph. Astrophysical Journal, Supplement Series, 2008, 177, 626-644.	7.7	4
51	The Giant Star Ca II Ionization Problem: Mass Loss Revisited. Symposium - International Astronomical Union, 2004, 219, 651-655.	0.1	3
52	Starspot variability and evolution from modeling Kepler photometry of active late-type stars. Proceedings of the International Astronomical Union, 2010, 6, 78-82.	0.0	2
53	Serendipitous X-Ray Sources in the Chandra HRC Field around Alpha Centauri. Astronomical Journal, 2018, 156, 274.	4.7	2
54	On the Same Wavelength as the Space Telescope Imaging Spectrograph. Astronomical Journal, 2022, 163, 78.	4.7	2

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55	The corona of the K5 giant Î³ Dra, and its relation to the hybrid-chromosphere stars. AIP Conference Proceedings, 1994, , .	0.4	1
56	SpS1-Digging in the solar COmosphere with NAC. Proceedings of the International Astronomical Union, 2009, 5, 547-547.	0.0	1
57	The Wind Temperature and Mass-loss Rate of Arcturus (K1.5 III). Astrophysical Journal, 2022, 932, 57.	4.5	1
58	Hot Times in the Hertzsprung Gap. International Astronomical Union Colloquium, 1996, 152, 113-120.	0.1	0
59	Coronal Activity on Rapidly-Rotating Solar-Like Stars: Chandra Observations of ER Vul. Symposium - International Astronomical Union, 2004, 215, 334-335.	0.1	0
60	Fossil Magnetospheres Confront Newborn Dynamos in the Rapid Braking Zone. Symposium - International Astronomical Union, 2004, 215, 280-286.	0.1	0
61	Chandra and GALEX Observations of Stellar Activity on the 7 Gyr Old Arcturus Moving Group Dwarfs. , 2009, , .		0
62	The Cycles of Alpha Centauri. Proceedings of the International Astronomical Union, 2009, 5, 146-149.	0.0	0
63	CO isotopologue ratios in the solar photosphere. Proceedings of the International Astronomical Union, 2015, 11, 307-308.	0.0	0
64	HST STIS Observations of Î¶ Aurigae A's Irradiated Atmosphere. Astronomical Journal, 2022, 164, 16.	4.7	0