Andrew J Connolly

List of Publications by Year
in descending order

44 papers	9,536 citations	236612 25 h-index	301761 39 g-index
46 all docs	46 docs citations	46 times ranked	8186 citing authors

#	Article	IF	Citations
1	Optimization of the Observing Cadence for the Rubin Observatory Legacy Survey of Space and Time: A Pioneering Process of Community-focused Experimental Design. Astrophysical Journal, Supplement Series, 2022, 258, 1.	3.0	40
2	MUSSES2020J: The Earliest Discovery of a Fast Blue Ultraluminous Transient at Redshift 1.063. Astrophysical Journal Letters, 2022, 933, L36.	3.0	7
3	The LSST DESC DC2 Simulated Sky Survey. Astrophysical Journal, Supplement Series, 2021, 253, 31.	3.0	32
4	THOR: An Algorithm for Cadence-independent Asteroid Discovery. Astronomical Journal, 2021, 162, 143.	1.9	5
5	Sifting through the Static: Moving Object Detection in Difference Images. Astronomical Journal, 2021, 162, 245.	1.9	7
6	Photometric Redshifts with the LSST. II. The Impact of Near-infrared and Near-ultraviolet Photometry. Astronomical Journal, 2020, 159, 258.	1.9	11
7	Toward Sampling for Deep Learning Model Diagnosis. , 2020, , .		2
8	Dimensionality Reduction of SDSS Spectra with Variational Autoencoders. Astronomical Journal, 2020, 160, 45.	1.9	37
9	Applying Information Theory to Design Optimal Filters for Photometric Redshifts. Astrophysical Journal, 2020, 890, 74.	1.6	0
10	Learning Spectral Templates for Photometric Redshift Estimation from Broadband Photometry. Astronomical Journal, 2020, 160, 191.	1.9	2
11	The Zwicky Transient Facility: Science Objectives. Publications of the Astronomical Society of the Pacific, 2019, 131, 078001.	1.0	453
12	AXS: A Framework for Fast Astronomical Data Processing Based on Apache Spark. Astronomical Journal, 2019, 158, 37.	1.9	13
13	Fast Algorithms for Slow Moving Asteroids: Constraints on the Distribution of Kuiper Belt Objects. Astronomical Journal, 2019, 157, 119.	1.9	16
14	Sub-band Image Reconstruction Using Differential Chromatic Refraction. Astronomical Journal, 2019, 157, 182.	1.9	3
15	A Framework for Telescope Schedulers: With Applications to the Large Synoptic Survey Telescope. Astronomical Journal, 2019, 157, 151.	1.9	24
16	LSST: From Science Drivers to Reference Design and Anticipated Data Products. Astrophysical Journal, 2019, 873, 111.	1.6	1,744
17	The Zwicky Transient Facility: System Overview, Performance, and First Results. Publications of the Astronomical Society of the Pacific, 2019, 131, 018002.	1.0	1,020
18	APO Time-resolved Color Photometry of Highly Elongated Interstellar Object 1I/â€˜Oumuamua. Astrophysical Journal Letters, 2018, 852, L2.	3.0	90

#	Article	IF	Citations
19	Photometric Redshifts with the LSST: Evaluating Survey Observing Strategies. Astronomical Journal, 2018, 155, 1.	1.9	51
20	The discovery of a five-image lensed quasar at *z* = 3.34 using PanSTARRS1 and *Gaia*. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 473, L116-L120.	1.2	31
21	Robust Period Estimation Using Mutual Information for Multiband Light Curves in the Synoptic Survey Era. Astrophysical Journal, Supplement Series, 2018, 236, 12.	3.0	24
22	A hybrid type Ia supernova with an early flash triggered by helium-shell detonation. Nature, 2017, 550, 80-83.	13.7	106
23	Comparative evaluation of big-data systems on scientific image analytics workloads. Proceedings of the VLDB Endowment, 2017, 10, 1226-1237.	2.1	36
24	Scientific Synergy between LSST and *Euclid*. Astrophysical Journal, Supplement Series, 2017, 233, 21.	3.0	44
25	Estimating Spectra from Photometry. Astronomical Journal, 2017, 154, 277.	1.9	5
26	Everything we'd like to do with LSST data, but we don't know (yet) how. Proceedings of the International Astronomical Union, 2016, 12, 93-102.	0.0	11
27	An optical to IR sky brightness model for the LSST. Proceedings of SPIE, 2016, , .	0.8	13
28	Gaussian Mixture Models Use-Case. , 2015, , .		7
29	The LSST metrics analysis framework (MAF). Proceedings of SPIE, 2014, , .	0.8	31
30	An end-to-end simulation framework for the Large Synoptic Survey Telescope. Proceedings of SPIE, 2014, , .	0.8	36
31	THE MULTI-OBJECT, FIBER-FED SPECTROGRAPHS FOR THE SLOAN DIGITAL SKY SURVEY AND THE BARYON OSCILLATION SPECTROSCOPIC SURVEY. Astronomical Journal, 2013, 146, 32.	1.9	863
32	THE MILKY WAY TOMOGRAPHY WITH SLOAN DIGITAL SKY SURVEY. IV. DISSECTING DUST. Astrophysical Journal, 2012, 757, 166.	1.6	60
33	Introduction to astroML: Machine learning for astrophysics. , 2012, , .		123
34	THREE-POINT CORRELATION FUNCTIONS OF SDSS GALAXIES: LUMINOSITY AND COLOR DEPENDENCE IN REDSHIFT AND PROJECTED SPACE. Astrophysical Journal, 2011, 726, 13.	1.6	62
35	REDUCING THE DIMENSIONALITY OF DATA: LOCALLY LINEAR EMBEDDING OF SLOAN GALAXY SPECTRA. Astronomical Journal, 2009, 138, 1365-1379.	1.9	51
36	Spatially Resolved Galaxy Star Formation and Its Environmental Dependence. I.. Astrophysical Journal, 2008, 677, 970-984.	1.6	39

#	Article	IF	Citations
37	Separating Physical Components from Galaxy Spectra by Subspace Methods. Proceedings of the International Astronomical Union, 2006, 2, .	0.0	0
38	LSST: Comprehensive NEO detection, characterization, and orbits. Proceedings of the International Astronomical Union, 2006, 2, 353-362.	0.0	7
39	High redshift detection of the integrated Sachs-Wolfe effect. Physical Review D, 2006, 74, .	1.6	138
40	Detection of the Baryon Acoustic Peak in the Large‐Scale Correlation Function of SDSS Luminous Red Galaxies. Astrophysical Journal, 2005, 633, 560-574.	1.6	3,564
41	Angular Clustering with Photometric Redshifts in the Sloan Digital Sky Survey: Bimodality in the Clustering Properties of Galaxies. Astrophysical Journal, 2003, 595, 59-70.	1.6	108
42	Karhunen‐Loeve Estimation of the Power Spectrum Parameters from the Angular Distribution of Galaxies in Early Sloan Digital Sky Survey Data. Astrophysical Journal, 2003, 591, 1-11.	1.6	65
43	Creating Spectral Templates from Multicolor Redshift Surveys. Astronomical Journal, 2000, 120, 1588-1598.	1.9	95
44	Simultaneous Multicolor Detection of Faint Galaxies in the Hubble Deep Field. Astronomical Journal, 1999, 117, 68-74.	1.9	152