

Douglas P Finkbeiner

List of Publications by Year in descending order

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108
papers

44,756
citations

13068

68
h-index

26548

107
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108
all docs

108
docs citations

108
times ranked

19740
citing authors

#	ARTICLE	IF	CITATIONS
1	Star formation near the Sun is driven by expansion of the Local Bubble. <i>Nature</i> , 2022, 601, 334-337.	13.7	78
2	A Conditional Autoencoder for Galaxy Photometric Parameter Estimation. <i>Publications of the Astronomical Society of the Pacific</i> , 2022, 134, 044502.	1.0	0
3	Photometry on Structured Backgrounds: Local Pixel-wise Infilling by Regression. <i>Astrophysical Journal</i> , 2022, 933, 155.	1.6	4
4	Data-driven Stellar Models. <i>Astrophysical Journal</i> , 2021, 907, 57.	1.6	6
5	Active Optical Control with Machine Learning: A Proof of Concept for the Vera C. Rubin Observatory. <i>Astronomical Journal</i> , 2021, 161, 216.	1.9	4
6	Classification of Magnetohydrodynamic Simulations Using Wavelet Scattering Transforms. <i>Astrophysical Journal</i> , 2021, 910, 122.	1.6	25
7	Impact of Dust on Spectral Distortion Measurements of the Cosmic Microwave Background. <i>Astrophysical Journal</i> , 2021, 914, 68.	1.6	4
8	On the Three-dimensional Structure of Local Molecular Clouds. <i>Astrophysical Journal</i> , 2021, 919, 35.	1.6	33
9	Photometric Biases in Modern Surveys. <i>Astronomical Journal</i> , 2020, 159, 165.	1.9	10
10	Multiband Probabilistic Cataloging: A Joint Fitting Approach to Point-source Detection and Deblending. <i>Astronomical Journal</i> , 2020, 159, 163.	1.9	7
11	A Galactic-scale gas wave in the solar neighbourhood. <i>Nature</i> , 2020, 578, 237-239.	13.7	86
12	A compendium of distances to molecular clouds in the Star Formation Handbook. <i>Astronomy and Astrophysics</i> , 2020, 633, A51.	2.1	141
13	Implications of Grain Size Distribution and Composition for the Correlation between Dust Extinction and Emissivity. <i>Astrophysical Journal</i> , 2020, 904, 38.	1.6	7
14	The Catalogue for Astrophysical Turbulence Simulations (CATS). <i>Astrophysical Journal</i> , 2020, 905, 14.	1.6	12
15	Pan-STARRS Photometric and Astrometric Calibration. <i>Astrophysical Journal, Supplement Series</i> , 2020, 251, 6.	3.0	138
16	Dynamic Observing and Tiling Strategies for the DESI Legacy Surveys. <i>Astronomical Journal</i> , 2020, 160, 61.	1.9	3
17	A Large Catalog of Accurate Distances to Local Molecular Clouds: The Gaia DR2 Edition. <i>Astrophysical Journal</i> , 2019, 879, 125.	1.6	183
18	A 3D Dust Map Based on Gaia, Pan-STARRS 1, and 2MASS. <i>Astrophysical Journal</i> , 2019, 887, 93.	1.6	681

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19	The DECam Plane Survey: Optical Photometry of Two Billion Objects in the Southern Galactic Plane. <i>Astrophysical Journal, Supplement Series</i> , 2018, 234, 39.	3.0	111
20	Probing the Small-scale Structure in Strongly Lensed Systems via Transdimensional Inference. <i>Astrophysical Journal</i> , 2018, 854, 141.	1.6	28
21	A Color-locus Method for Mapping $R_{_V}$ Using Ensembles of Stars. <i>Astrophysical Journal</i> , 2018, 854, 79.	1.6	2
22	Developing the 3-point Correlation Function for the Turbulent Interstellar Medium. <i>Astrophysical Journal</i> , 2018, 862, 119.	1.6	22
23	Mapping Distances across the Perseus Molecular Cloud Using CO Observations, Stellar Photometry, and Gaia DR2 Parallax Measurements. <i>Astrophysical Journal</i> , 2018, 869, 83.	1.6	78
24	They Might Be Giants: An Efficient Color-based Selection of Red Giant Stars. <i>Astrophysical Journal Letters</i> , 2018, 861, L16.	3.0	11
25	Galactic reddening in 3D from stellar photometry – an improved map. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 651-666.	1.6	337
26	The Complete Light-curve Sample of Spectroscopically Confirmed SNe Ia from Pan-STARRS1 and Cosmological Constraints from the Combined Pantheon Sample. <i>Astrophysical Journal</i> , 2018, 859, 101.	1.6	1,694
27	Mapping the Extinction Curve in 3D: Structure on Kiloparsec Scales. <i>Astrophysical Journal</i> , 2017, 838, 36.	1.6	33
28	Inference of Unresolved Point Sources at High Galactic Latitudes Using Probabilistic Catalogs. <i>Astrophysical Journal</i> , 2017, 839, 4.	1.6	15
29	Improved Point-source Detection in Crowded Fields Using Probabilistic Cataloging. <i>Astronomical Journal</i> , 2017, 154, 132.	1.9	16
30	THE OPTICAL–INFRARED EXTINCTION CURVE AND ITS VARIATION IN THE MILKY WAY. <i>Astrophysical Journal</i> , 2016, 821, 78.	1.6	185
31	A synoptic map of halo substructures from the Pan-STARRS1 3I survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 1759-1768.	1.6	97
32	HYPERCALIBRATION: A PAN-STARRS1-BASED RECALIBRATION OF THE SLOAN DIGITAL SKY SURVEY PHOTOMETRY. <i>Astrophysical Journal</i> , 2016, 822, 66.	1.6	91
33	The characterization of the gamma-ray signal from the central Milky Way: A case for annihilating dark matter. <i>Physics of the Dark Universe</i> , 2016, 12, 1-23.	1.8	405
34	ON GALACTIC DENSITY MODELING IN THE PRESENCE OF DUST EXTINCTION. <i>Astrophysical Journal</i> , 2016, 818, 130.	1.6	182
35	A THREE-DIMENSIONAL MAP OF MILKY WAY DUST. <i>Astrophysical Journal</i> , 2015, 810, 25.	1.6	408
36	MEASURING DISTANCES AND REDDENINGS FOR A BILLION STARS: TOWARD A 3D DUST MAP FROM PAN-STARRS 1. <i>Astrophysical Journal</i> , 2014, 783, 114.	1.6	84

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37	SHARPER <i>Fermi</i> LAT IMAGES: INSTRUMENT RESPONSE FUNCTIONS FOR AN IMPROVED EVENT SELECTION. <i>Astrophysical Journal</i> , 2014, 796, 54.	1.6	17
38	THE DEEP2 GALAXY REDSHIFT SURVEY: DESIGN, OBSERVATIONS, DATA REDUCTION, AND REDSHIFTS. <i>Astrophysical Journal</i> , Supplement Series, 2013, 208, 5.	3.0	544
39	LACERTA I AND CASSIOPEIA III. TWO LUMINOUS AND DISTANT ANDROMEDA SATELLITE DWARF GALAXIES FOUND IN THE 3€ PAN-STARRS1 SURVEY. <i>Astrophysical Journal</i> , 2013, 772, 15.	1.6	81
40	PERSEUS I: A DISTANT SATELLITE DWARF GALAXY OF ANDROMEDA. <i>Astrophysical Journal Letters</i> , 2013, 779, L10.	3.0	42
41	Searching for dark matter in the CMB: A compact parametrization of energy injection from new physics. <i>Physical Review D</i> , 2012, 85, .	1.6	129
42	THE METALLICITY OF THE MONOCEROS STREAM. <i>Astrophysical Journal</i> , 2012, 753, 116.	1.6	18
43	THE MILKY WAY TOMOGRAPHY WITH SLOAN DIGITAL SKY SURVEY. IV. DISSECTING DUST. <i>Astrophysical Journal</i> , 2012, 757, 166.	1.6	60
44	EVIDENCE FOR GAMMA-RAY JETS IN THE MILKY WAY. <i>Astrophysical Journal</i> , 2012, 753, 61.	1.6	81
45	MEASURING REDDENING WITH SLOAN DIGITAL SKY SURVEY STELLAR SPECTRA AND RECALIBRATING SFD. <i>Astrophysical Journal</i> , 2011, 737, 103.	1.6	5,294
46	THE<i>FERMI</i>HAZE: A GAMMA-RAY COUNTERPART TO THE MICROWAVE HAZE. <i>Astrophysical Journal</i> , 2010, 717, 825-842.	1.6	226
47	THE MILKY WAY TOMOGRAPHY WITH SDSS. III. STELLAR KINEMATICS. <i>Astrophysical Journal</i> , 2010, 716, 1-29.	1.6	185
48	THE BLUE TIP OF THE STELLAR LOCUS: MEASURING REDDENING WITH THE SLOAN DIGITAL SKY SURVEY. <i>Astrophysical Journal</i> , 2010, 725, 1175-1191.	1.6	138
49	A statistical test of emission from unresolved point sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , .	1.6	3
50	GIANT GAMMA-RAY BUBBLES FROM<i>FERMI</i>-LAT: ACTIVE GALACTIC NUCLEUS ACTIVITY OR BIPOLAR GALACTIC WIND?. <i>Astrophysical Journal</i> , 2010, 724, 1044-1082.	1.6	808
51	The electron injection spectrum determined by anomalous excesses in cosmic ray, gamma ray, and microwave data. <i>Physical Review D</i> , 2010, 82, .	1.6	10
52	CONSTRAINING SPINNING DUST PARAMETERS WITH THE<i>WMAP</i>FIVE-YEAR DATA. <i>Astrophysical Journal</i> , 2009, 699, 1374-1388.	1.6	37
53	Inelastic dark matter and DAMA/LIBRA: An experimentum crucis. <i>Physical Review D</i> , 2009, 80, .	1.6	49
54	The PAMELA positron excess from annihilations into a light boson. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 007-007.	1.9	96

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55	A theory of dark matter. <i>Physical Review D</i> , 2009, 79, .	1.6	1,218
56	Case for a $\langle \sigma v \rangle > 700 \text{ GeV}$ WIMP: Cosmic ray spectra from PAMELA, Fermi, and ATIC. <i>Physical Review D</i> , 2009, 80, .	1.6	125
57	Prospects for detecting dark matter with GLAST in light of the WMAP haze. <i>Physical Review D</i> , 2008, 77, .	1.6	29
58	Nuclear scattering of dark matter coupled to a new light scalar. <i>Physical Review D</i> , 2008, 78, .	1.6	15
59	The Sixth Data Release of the Sloan Digital Sky Survey. <i>Astrophysical Journal, Supplement Series</i> , 2008, 175, 297-313.	3.0	1,202
60	CMB and 21-cm signals for dark matter with a long-lived excited state. <i>Physical Review D</i> , 2008, 78, .	1.6	24
61	Modeling the Dust Properties of $z \sim 6$ Quasars with ART ² All-Wavelength Radiative Transfer with Adaptive Refinement Tree. <i>Astrophysical Journal</i> , 2008, 678, 41-63.	1.6	57
62	The Milky Way Tomography with SDSS. II. Stellar Metallicity. <i>Astrophysical Journal</i> , 2008, 684, 287-325.	1.6	456
63	Extended Anomalous Foreground Emission in the WMAP Three-Year Data. <i>Astrophysical Journal</i> , 2008, 680, 1222-1234.	1.6	198
64	Identification of Spinning Dust in $H\alpha$ -Correlated Microwave Emission. <i>Astrophysical Journal</i> , 2008, 680, 1235-1242.	1.6	27
65	An Improved Photometric Calibration of the Sloan Digital Sky Survey Imaging Data. <i>Astrophysical Journal</i> , 2008, 674, 1217-1233.	1.6	496
66	The Milky Way Tomography with SDSS. I. Stellar Number Density Distribution. <i>Astrophysical Journal</i> , 2008, 673, 864-914.	1.6	1,020
67	The Effect of FIR Emission from SDSS Galaxies on the SFD Galactic Extinction Map. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, 205-219.	1.0	27
68	Exciting dark matter and the INTEGRAL/SPI 511 keV signal. <i>Physical Review D</i> , 2007, 76, .	1.6	274
69	Exploring the Variable Sky with the Sloan Digital Sky Survey. <i>Astronomical Journal</i> , 2007, 134, 2236-2251.	1.9	274
70	Sloan Digital Sky Survey Standard Star Catalog for Stripe 82: The Dawn of Industrial 1% Optical Photometry. <i>Astronomical Journal</i> , 2007, 134, 973-998.	1.9	266
71	The Fifth Data Release of the Sloan Digital Sky Survey. <i>Astrophysical Journal, Supplement Series</i> , 2007, 172, 634-644.	3.0	615
72	Possible evidence for dark matter annihilations from the excess microwave emission around the center of the Galaxy seen by the Wilkinson Microwave Anisotropy Probe. <i>Physical Review D</i> , 2007, 76, .	1.6	156

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73	The clustering of luminous red galaxies in the Sloan Digital Sky Survey imaging data. Monthly Notices of the Royal Astronomical Society, 2007, 378, 852-872.	1.6	295
74	SDSS J103913.70+533029.7: A Super Star Cluster in the Outskirts of a Galaxy Merger. Astronomical Journal, 2006, 131, 859-865.	1.9	4
75	The Fourth Data Release of the Sloan Digital Sky Survey. Astrophysical Journal, Supplement Series, 2006, 162, 38-48.	3.0	948
76	Variable Faint Optical Sources Discovered by Comparing the POSS and SDSS Catalogs. Astronomical Journal, 2006, 131, 2801-2825.	1.9	43
77	Mid-Infrared and Visible Photometry of Galaxies: Anomalous Low Polycyclic Aromatic Hydrocarbon Emission from Low-Luminosity Galaxies. Astrophysical Journal, 2005, 624, 162-167.	1.6	47
78	New York University Value-Added Galaxy Catalog: A Galaxy Catalog Based on New Public Surveys. Astronomical Journal, 2005, 129, 2562-2578.	1.9	989
79	The DEEP2 Galaxy Redshift Survey: First Results on Galaxy Groups. Astrophysical Journal, 2005, 625, 6-22.	1.6	119
80	The Third Data Release of the Sloan Digital Sky Survey. Astronomical Journal, 2005, 129, 1755-1759.	1.9	634
81	The Three-Dimensional Power Spectrum of Galaxies from the Sloan Digital Sky Survey. Astrophysical Journal, 2004, 606, 702-740.	1.6	1,426
82	Microwave Interstellar Medium Emission Observed by the Wilkinson Microwave Anisotropy Probe. Astrophysical Journal, 2004, 614, 186-193.	1.6	287
83	Sloan Digital Sky Survey Imaging of Low Galactic Latitude Fields: Technical Summary and Data Release. Astronomical Journal, 2004, 128, 2577-2592.	1.9	73
84	Microwave Interstellar Medium Emission in the Green Bank Galactic Plane Survey: Evidence for Spinning Dust. Astrophysical Journal, 2004, 617, 350-359.	1.6	81
85	The Second Data Release of the Sloan Digital Sky Survey. Astronomical Journal, 2004, 128, 502-512.	1.9	953
86	The DEEP2 Galaxy Redshift Survey: Clustering of Galaxies in Early Data. Astrophysical Journal, 2004, 609, 525-538.	1.6	148
87	The V1647 Orionis (IRAS 05436+0007) Protostar and Its Environment. Astrophysical Journal, 2004, 616, 1058-1064.	1.6	24
88	The First Data Release of the Sloan Digital Sky Survey. Astronomical Journal, 2003, 126, 2081-2086.	1.9	800
89	A Full-Sky $H\pm$ Template for Microwave Foreground Prediction. Astrophysical Journal, Supplement Series, 2003, 146, 407-415.	3.0	401
90	The Velocity Dispersion Function of Early-Type Galaxies. Astrophysical Journal, 2003, 594, 225-231.	1.6	189

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91	P2 Galaxy Redshift Survey: Spectral Classification of Galaxies at documentclass{aastex} usepackage{amsmath} usepackage{amssymb} usepackage{bm} usepackage{mathrsfs} usepackage{pifont} usepackage{stmaryrd} usepackage{textcomp} usepackage{portland,xspace} usepackage{amsmath,amsxtra} usepackage[OT2,OT1]{fontenc} ewcommandcyr{enewcommandmdefault{wncyr}enewcommandsfdefault{wncyss}enewcommandencodingdefault{OT2}ornalfontselectfont}DeclareTextFontCommand{fontc} Early-Type Galaxies in the Sloan Digital Sky Survey. I. The Sample. <i>Astronomical Journal</i> , 2003, 125, 1817-1848.	1.6	52
92	Early-Type Galaxies in the Sloan Digital Sky Survey. I. The Sample. <i>Astronomical Journal</i> , 2003, 125, 1817-1848.	1.9	226
93	Average Spectra of Massive Galaxies in the Sloan Digital Sky Survey. <i>Astrophysical Journal</i> , 2003, 585, 694-713.	1.6	104
94	Early-Type Galaxies in the Sloan Digital Sky Survey. III. The Fundamental Plane. <i>Astronomical Journal</i> , 2003, 125, 1866-1881.	1.9	296
95	Early-Type Galaxies in the Sloan Digital Sky Survey. IV. Colors and Chemical Evolution. <i>Astronomical Journal</i> , 2003, 125, 1882-1896.	1.9	173
96	Early-type Galaxies in the Sloan Digital Sky Survey. II. Correlations between Observables. <i>Astronomical Journal</i> , 2003, 125, 1849-1865.	1.9	240
97	Optical and Radio Properties of Extragalactic Sources Observed by the FIRST Survey and the Sloan Digital Sky Survey. <i>Astronomical Journal</i> , 2002, 124, 2364-2400.	1.9	416
98	A New Spin on Galactic Dust. <i>Astrophysical Journal</i> , 2002, 567, 363-369.	1.6	64
99	Tentative Detection of Electric Dipole Emission from Rapidly Rotating Dust Grains. <i>Astrophysical Journal</i> , 2002, 566, 898-904.	1.6	83
100	Galaxy Clustering in Early Sloan Digital Sky Survey Redshift Data. <i>Astrophysical Journal</i> , 2002, 571, 172-190.	1.6	520
101	Colors of 2625 Quasars at $0.5 < z < 5$ Measured in the Sloan Digital Sky Survey Photometric System. <i>Astronomical Journal</i> , 2001, 121, 2308-2330.	1.9	190
102	A Photometricity and Extinction Monitor at the Apache Point Observatory. <i>Astronomical Journal</i> , 2001, 122, 2129-2138.	1.9	642
103	Composite Quasar Spectra from the Sloan Digital Sky Survey. <i>Astronomical Journal</i> , 2001, 122, 549-564.	1.9	1,494
104	The Luminosity Function of Galaxies in SDSS Commissioning Data. <i>Astronomical Journal</i> , 2001, 121, 2358-2380.	1.9	545
105	Detection of a Far-Infrared Excess with DIRBE at 60 and 100 Microns. <i>Astrophysical Journal</i> , 2000, 544, 81-97.	1.6	114
106	Extrapolation of Galactic Dust Emission at 100 Microns to Cosmic Microwave Background Radiation Frequencies Using FIRAS. <i>Astrophysical Journal</i> , 1999, 524, 867-886.	1.6	487
107	Maps of Dust Infrared Emission for Use in Estimation of Reddening and Cosmic Microwave Background Radiation Foregrounds. <i>Astrophysical Journal</i> , 1998, 500, 525-553.	1.6	12,127
108	A Limit on Galactic Extinction Not Correlated with Far IR Emission. <i>International Astronomical Union Colloquium</i> , 1997, 166, 367-370.	0.1	4