

Darren J Croton

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

22,690
citations

20759

60
h-index

19136

118
g-index

125
all docs

125
docs citations

125
times ranked

8320
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the relation between dust mass and galaxy properties using <code>DustySAGE</code> . Monthly Notices of the Royal Astronomical Society, 2021, 503, 1005-1016.	1.6	8
2	Ultra-fast Model Emulation with PRISM: Analyzing the Meraxes Galaxy Formation Model. Astrophysical Journal, Supplement Series, 2021, 253, 50.	3.0	0
3	The Uchuu simulations: Data Release 1 and dark matter halo concentrations. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4210-4231.	1.6	108
4	The 21-cm bispectrum during reionization: a tracer of the ionization topology. Monthly Notices of the Royal Astronomical Society, 2020, 492, 653-667.	1.6	38
5	[OIII] emitters in MultiDark-Galaxies and DEEP2. Monthly Notices of the Royal Astronomical Society, 2020, 497, 5432-5453.	1.6	12
6	The origin of dust in galaxies across cosmic time. Monthly Notices of the Royal Astronomical Society, 2020, 493, 2490-2505.	1.6	43
7	Investigating the Effect of Galaxy Interactions on the Enhancement of Active Galactic Nuclei at 0.5-3.0. Astrophysical Journal, 2020, 904, 107.	1.6	30
8	The escape fraction of ionizing photons during the Epoch of Reionization: observability with the Square Kilometre Array. Monthly Notices of the Royal Astronomical Society, 2019, 487, 5739-5752.	1.6	22
9	Evolution of Black Hole and Galaxy Growth in a Semi-numerical Galaxy Formation Model. Astrophysical Journal, 2019, 881, 110.	1.6	7
10	Model Dispersion with prism: An Alternative to MCMC for Rapid Analysis of Models. Astrophysical Journal, Supplement Series, 2019, 242, 22.	3.0	6
11	Feedback by supermassive black holes in galaxy evolution: impacts of accretion and outflows on the star formation rate. Monthly Notices of the Royal Astronomical Society, 2019, 486, 1509-1522.	1.6	12
12	Mentari: A pipeline to model the galaxy SED using semi analytic models. Proceedings of the International Astronomical Union, 2019, 15, 119-123.	0.0	0
13	MultiDark-Galaxies: data release and first results. Monthly Notices of the Royal Astronomical Society, 2018, 474, 5206-5231.	1.6	60
14	The Intrinsic Characteristics of Galaxies on the $SFR-M_{\text{star}}$ Plane at 1.2 z: I. The Correlation between Stellar Age, Central Density, and Position Relative to the Main Sequence. Astrophysical Journal, 2018, 853, 131.	1.6	50
15	Evidence for Merger-driven Growth in Luminous, High- z , Obscured AGNs in the CANDELS/COSMOS Field. Astrophysical Journal, 2018, 853, 63.	1.6	52
16	Quantifying the impact of mergers on the angular momentum of simulated galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4956-4974.	1.6	113
17	The WiggleZ Dark Energy Survey: final data release and the metallicity of UV-luminous galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4151-4168.	1.6	30
18	The indirect influence of quasars on reionization. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 480, L33-L37.	1.2	16

#	ARTICLE	IF	CITATIONS
19	Merger History of Central Galaxies in Semi-analytic Models of Galaxy Formation. <i>Astrophysical Journal</i> , 2018, 863, 40.	1.6	10
20	Cosmic CARNage I: on the calibration of galaxy formation models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 2936-2954.	1.6	23
21	On the Transition of the Galaxy Quenching Mode at $0.5 < z < 1$ in CANDELS. <i>Astrophysical Journal</i> , 2018, 860, 60.	1.6	13
22	Cosmic CARNage II: the evolution of the galaxy stellar mass function in observations and galaxy formation models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 1197-1210.	1.6	14
23	The Three Hundred project: a large catalogue of theoretically modelled galaxy clusters for cosmological and astrophysical applications. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 2898-2915.	1.6	131
24	Triggering active galactic nuclei in galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 3615-3628.	1.6	27
25	Galaxy And Mass Assembly (GAMA): A "No Smoking" Zone for Giant Elliptical Galaxies?. <i>Astrophysical Journal</i> , 2017, 842, 81.	1.6	17
26	Angular momentum evolution of galaxies in EAGLE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 3850-3870.	1.6	126
27	The many lives of active galactic nuclei II: The formation and evolution of radio jets and their impact on galaxy evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 658-670.	1.6	32
28	Do You See What I See? Exploring the Consequences of Luminosity Limits in Black Hole "Galaxy Evolution Studies. <i>Astrophysical Journal</i> , 2017, 843, 125.	1.6	11
29	Convergence properties of halo merger trees; halo and substructure merger rates across cosmic history. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 3659-3682.	1.6	31
30	nFTy cosmology: the clustering consistency of galaxy formation models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 749-762.	1.6	24
31	Effect of Local Environment and Stellar Mass on Galaxy Quenching and Morphology at $0.5 < z < 2.0$. <i>Astrophysical Journal</i> , 2017, 847, 134.	1.6	106
32	THE EVOLUTION OF STAR FORMATION HISTORIES OF QUIESCENT GALAXIES. <i>Astrophysical Journal</i> , 2016, 832, 79.	1.6	99
33	Non-linear structure formation in the "Running FLRW" cosmological model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 729-741.	1.6	1
34	THE THEORETICAL ASTROPHYSICAL OBSERVATORY: CLOUD-BASED MOCK GALAXY CATALOGS*. <i>Astrophysical Journal</i> , Supplement Series, 2016, 223, 9.	3.0	42
35	Building disc structure and galaxy properties through angular momentum: the Dark Sage semi-analytic model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 859-876.	1.6	77
36	The growth of discs and bulges during hierarchical galaxy formation I. Fast evolution versus secular processes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 4109-4129.	1.6	47

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37	SEMI-ANALYTIC GALAXY EVOLUTION (SAGE): MODEL CALIBRATION AND BASIC RESULTS. <i>Astrophysical Journal, Supplement Series</i> , 2016, 222, 22.	3.0	214
38	Galaxy Cluster Mass Reconstruction Project " II. Quantifying scatter and bias using contrasting mock catalogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 1897-1920.	1.6	65
39	CANDELS VISUAL CLASSIFICATIONS: SCHEME, DATA RELEASE, AND FIRST RESULTS. <i>Astrophysical Journal, Supplement Series</i> , 2015, 221, 11.	3.0	106
40	The Gigaparsec WiggleZ simulations: characterizing scale-dependant bias and associated systematics in growth of structure measurements. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 1454-1469.	1.6	23
41	Thinking outside the halo: tracing the large-scale distribution of diffuse cosmic metals with semi-analytic models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2306-2316.	1.6	3
42	The SAMI Galaxy Survey: instrument specification and target selection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 2857-2879.	1.6	370
43	nFTy cosmology: comparison of galaxy formation models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 4029-4059.	1.6	55
44	Using galaxy pairs to probe star formation during major halo mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 1546-1564.	1.6	25
45	Beyond the halo: redefining environment with unbound matter in N -body simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 1779-1791.	1.6	2
46	Galaxy cluster mass reconstruction project " I. Methods and first results on galaxy-based techniques. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 1513-1536.	1.6	58
47	Morphologies of $z \sim 0.7$ AGN host galaxies in CANDELS: no trend of merger incidence with AGN luminosity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 3342-3356.	1.6	132
48	CANDELS+3D-HST: COMPACT SFGs AT $z \sim 2-3$, THE PROGENITORS OF THE FIRST QUIESCENT GALAXIES. <i>Astrophysical Journal</i> , 2014, 791, 52.	1.6	142
49	SEMI-ANALYTIC MODELS FOR THE CANDELS SURVEY: COMPARISON OF PREDICTIONS FOR INTRINSIC GALAXY PROPERTIES. <i>Astrophysical Journal</i> , 2014, 795, 123.	1.6	91
50	Modelling the ages and metallicities of early-type galaxies in Fundamental Plane space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 3092-3104.	1.6	19
51	Where do galaxies end? Comparing measurement techniques of hydrodynamic-simulation galaxies'™ integrated properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 239-255.	1.6	21
52	The WiggleZ Dark Energy Survey: improved distance measurements to $z \sim 1$ with reconstruction of the baryonic acoustic feature. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 3524-3542.	1.6	263
53	The simplest model of galaxy formation " I. A formation history model of galaxy stellar mass growth. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 2445-2459.	1.6	38
54	Measures of galaxy environment " II. Rank-ordered mark correlations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 458-468.	1.6	20

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55	The WiggleZ Dark Energy Survey: measuring the cosmic growth rate with the two-point galaxy correlation function. Monthly Notices of the Royal Astronomical Society, 2013, 430, 924-933.	1.6	40
56	The WiggleZ Dark Energy Survey: constraining galaxy bias and cosmic growth with three-point correlation functions. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2654-2668.	1.6	83
57	Constraining the last 7 billion years of galaxy evolution in semi-analytic models. Monthly Notices of the Royal Astronomical Society, 2013, 428, 2001-2016.	1.6	37
58	The WiggleZ Dark Energy Survey: star formation in UV-luminous galaxies from their luminosity functions. Monthly Notices of the Royal Astronomical Society, 2013, 434, 257-281.	1.6	5
59	The stellar masses of $\sim 40,000$ UV selected Galaxies from the WiggleZ survey at $0.3 < z < 1.0$: analogues of Lyman break galaxies?. Monthly Notices of the Royal Astronomical Society, 2013, 431, 2209-2229.	1.6	11
60	The WiggleZ Dark Energy Survey: probing the epoch of radiation domination using large-scale structure. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1902-1912.	1.6	16
61	CANDELS OBSERVATIONS OF THE ENVIRONMENTAL DEPENDENCE OF THE COLOR-MASS-MORPHOLOGY RELATION AT $z \sim 1.6$. Astrophysical Journal, 2013, 770, 58.	1.6	59
62	Measures of galaxy environment - III. Difficulties in identifying protoclusters at $z \sim 2$. Monthly Notices of the Royal Astronomical Society, 2013, 433, 3314-3324.	1.6	23
63	SEDS: THE SPITZER EXTENDED DEEP SURVEY. SURVEY DESIGN, PHOTOMETRY, AND DEEP IRAC SOURCE COUNTS. Astrophysical Journal, 2013, 769, 80.	1.6	220
64	CANDELS: THE PROGENITORS OF COMPACT QUIESCENT GALAXIES AT $z \sim 2$. Astrophysical Journal, 2013, 765, 104.	1.6	367
65	Damn You, Little h! (Or, Real-World Applications of the Hubble Constant Using Observed and) $H_0 = 0.784314 \text{ (Overlock 107)}$	1.8	33
66	The morphologies of massive galaxies at $1 < z < 3$ in the CANDELS-UDS field: compact bulges, and the rise and fall of massive discs. Monthly Notices of the Royal Astronomical Society, 2012, 427, 1666-1701.	1.6	136
67	THE EVOLUTION OF BRIGHTEST CLUSTER GALAXIES IN A HIERARCHICAL UNIVERSE. Astrophysical Journal, 2012, 759, 43.	1.6	50
68	A DIVERSITY OF PROGENITORS AND HISTORIES FOR ISOLATED SPIRAL GALAXIES. Astrophysical Journal, 2012, 756, 26.	1.6	114
69	Predictions for ASKAP neutral hydrogen surveys. Monthly Notices of the Royal Astronomical Society, 2012, 426, 3385-3402.	1.6	116
70	The WiggleZ Dark Energy Survey: Final data release and cosmological results. Physical Review D, 2012, 86, .	1.6	205
71	WiggleZ Dark Energy Survey: Cosmological neutrino mass constraint from blue high-redshift galaxies. Physical Review D, 2012, 85, .	1.6	46
72	Measures of galaxy environment - I. What is $\tilde{\text{environment}}^{\text{TM}}$?. Monthly Notices of the Royal Astronomical Society, 2012, 419, 2670-2682.	1.6	178

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73	The WiggleZ Dark Energy Survey: the transition to large-scale cosmic homogeneity. Monthly Notices of the Royal Astronomical Society, 2012, 425, 116-134.	1.6	159
74	The WiggleZ Dark Energy Survey: joint measurements of the expansion and growth history at $z < 1$. Monthly Notices of the Royal Astronomical Society, 2012, 425, 405-414.	1.6	704
75	THE MID-LIFE CRISIS OF THE MILKY WAY AND M31. Astrophysical Journal, 2011, 736, 84.	1.6	53
76	THE MAJOR AND MINOR GALAXY MERGER RATES AT $z < 1.5$. Astrophysical Journal, 2011, 742, 103.	1.6	351
77	The role of dissipation in the scaling relations of cosmological merger remnants. Monthly Notices of the Royal Astronomical Society, 2011, 415, 3135-3152.	1.6	33
78	The WiggleZ Dark Energy Survey: high-resolution kinematics of luminous star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2011, 417, 2601-2623.	1.6	86
79	The WiggleZ Dark Energy Survey: mapping the distance-redshift relation with baryon acoustic oscillations. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1707-1724.	1.6	782
80	CANDELS: THE COSMIC ASSEMBLY NEAR-INFRARED DEEP EXTRAGALACTIC LEGACY SURVEY – THE HUBBLE SPACE TELESCOPE OBSERVATIONS, IMAGING DATA PRODUCTS, AND MOSAICS. Astrophysical Journal, Supplement Series, 2011, 197, 36.	3.0	1,549
81	CANDELS: THE COSMIC ASSEMBLY NEAR-INFRARED DEEP EXTRAGALACTIC LEGACY SURVEY. Astrophysical Journal, Supplement Series, 2011, 197, 35.	3.0	1,590
82	MERGERS AND BULGE FORMATION IN Λ CDM: WHICH MERGERS MATTER?. Astrophysical Journal, 2010, 715, 202-229.	1.6	344
83	WHERE DO WET, DRY, AND MIXED GALAXY MERGERS OCCUR? A STUDY OF THE ENVIRONMENTS OF CLOSE GALAXY PAIRS IN THE DEEP2 GALAXY REDSHIFT SURVEY. Astrophysical Journal, 2010, 718, 1158-1170.	1.6	89
84	MERGERS IN Λ CDM: UNCERTAINTIES IN THEORETICAL PREDICTIONS AND INTERPRETATIONS OF THE MERGER RATE. Astrophysical Journal, 2010, 724, 915-945.	1.6	183
85	Absence of evidence is not evidence of absence: the colour-density relation at fixed stellar mass persists to $z \sim 1$ Monthly Notices of the Royal Astronomical Society, 2010, 409, 337-345.	1.6	69
86	The SAURON project - XV. Modes of star formation in early-type galaxies and the evolution of the red sequence. Monthly Notices of the Royal Astronomical Society, 2010, 402, 2140-2186.	1.6	104
87	AEGIS: THE CLUSTERING OF X-RAY ACTIVE GALACTIC NUCLEUS RELATIVE TO GALAXIES AT $z < 1$. Astrophysical Journal, 2009, 701, 1484-1499.	1.6	130
88	SIMULATION OF THE COSMIC EVOLUTION OF ATOMIC AND MOLECULAR HYDROGEN IN GALAXIES. Astrophysical Journal, 2009, 698, 1467-1484.	1.6	147
89	The DEEP2 Galaxy Redshift Survey: the red sequence AGN fraction and its environment and redshift dependence. Monthly Notices of the Royal Astronomical Society, 2009, 392, 125-134.	1.6	26
90	Statistical analysis of galaxy surveys - I. Robust error estimation for two-point clustering statistics. Monthly Notices of the Royal Astronomical Society, 2009, 396, 19-38.	1.6	283

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91	A simple model to link the properties of quasars to the properties of dark matter haloes out to high redshift. Monthly Notices of the Royal Astronomical Society, 2009, 394, 1109-1119.	1.6	74
92	Where do "red and dead" early-type void galaxies come from?. Monthly Notices of the Royal Astronomical Society, 2008, 386, 2285-2289.	1.6	47
93	Consequences of dark matter self-annihilation for galaxy formation. Monthly Notices of the Royal Astronomical Society, 2008, 388, 1652-1666.	1.6	9
94	The DEEP2 Galaxy Redshift Survey: Color and Luminosity Dependence of Galaxy Clustering at		

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#	ARTICLE	IF	CITATIONS
109	The many lives of active galactic nuclei: cooling flows, black holes and the luminosities and colours of galaxies. Monthly Notices of the Royal Astronomical Society, 2006, 365, 11-28.	1.6	2,994
110	The formation history of elliptical galaxies. Monthly Notices of the Royal Astronomical Society, 2006, 366, 499-509.	1.6	798
111	Evolution in the black hole mass-bulge mass relation: a theoretical perspective. Monthly Notices of the Royal Astronomical Society, 2006, 369, 1808-1812.	1.6	104
112	The DEEP2 Galaxy Redshift Survey: the relationship between galaxy properties and environment at $z \hat{A} 1$. Monthly Notices of the Royal Astronomical Society, 2006, 370, 198-212.	1.6	219
113	Properties of galaxy groups in the Sloan Digital Sky Survey - II. Active galactic nucleus feedback and star formation truncation. Monthly Notices of the Royal Astronomical Society, 2006, 372, 1161-1174.	1.6	154
114	The 2dF Galaxy Redshift Survey: luminosity functions by density environment and galaxy type. Monthly Notices of the Royal Astronomical Society, 2005, 356, 1155-1167.	1.6	216
115	Statistical analysis of galaxy surveys " II. The three-point galaxy correlation function measured from the 2dFGRS. Monthly Notices of the Royal Astronomical Society, 2005, 364, 620-634.	1.6	86
116	Simulations of the formation, evolution and clustering of galaxies and quasars. Nature, 2005, 435, 629-636.	13.7	3,801
117	The 2dF Galaxy Redshift Survey: the clustering of galaxy groups. Monthly Notices of the Royal Astronomical Society, 2004, 352, 211-225.	1.6	53
118	The 2dF Galaxy Redshift Survey: hierarchical galaxy clustering. Monthly Notices of the Royal Astronomical Society, 2004, 351, L44-L48.	1.6	62
119	The 2dF Galaxy Redshift Survey: voids and hierarchical scaling models. Monthly Notices of the Royal Astronomical Society, 2004, 352, 828-836.	1.6	59
120	The 2dF Galaxy Redshift Survey: higher-order galaxy correlation functions. Monthly Notices of the Royal Astronomical Society, 2004, 352, 1232-1244.	1.6	68
121	Pairwise velocities in the "Running FLRW" cosmological model. Monthly Notices of the Royal Astronomical Society, 0, , stx070.	1.6	4
122	How to get cool in the heat: comparing analytic models of hot, cold, and cooling gas in haloes and galaxies with EAGLE. Monthly Notices of the Royal Astronomical Society, 0, , stx243.	1.6	32