

# 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	Simulations of the formation, evolution and clustering of galaxies and quasars. <i>Nature</i> , 2005, 435, 629-636.	13.7	3,801
2	The many lives of active galactic nuclei: cooling flows, black holes and the luminosities and colours of galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 365, 11-28.	1.6	2,994
3	CANDELS: THE COSMIC ASSEMBLY NEAR-INFRARED DEEP EXTRAGALACTIC LEGACY SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2011, 197, 35.	3.0	1,590
4	CANDELS: THE COSMIC ASSEMBLY NEAR-INFRARED DEEP EXTRAGALACTIC LEGACY SURVEY—THE <i>HUBBLE SPACE TELESCOPE</i> OBSERVATIONS, IMAGING DATA PRODUCTS, AND MOSAICS. <i>Astrophysical Journal, Supplement Series</i> , 2011, 197, 36.	3.0	1,549
5	The formation history of elliptical galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 366, 499-509.	1.6	798
6	The WiggleZ Dark Energy Survey: mapping the distance-redshift relation with baryon acoustic oscillations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 1707-1724.	1.6	782
7	The WiggleZ Dark Energy Survey: joint measurements of the expansion and growth history at <i>z</i> <i>1</i>. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 405-414.	1.6	704
8	The All-Wavelength Extended Groth Strip International Survey (AEGIS) Data Sets. <i>Astrophysical Journal</i> , 2007, 660, L1-L6.	1.6	465
9	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
10	CANDELS: THE PROGENITORS OF COMPACT QUIESCENT GALAXIES AT <i>z</i> <i>1/4</i> 2. <i>Astrophysical Journal</i> , 2013, 765, 104.	1.6	367
11	THE MAJOR AND MINOR GALAXY MERGER RATES AT <i>z</i> <i>1</i> <i>1.5</i>. <i>Astrophysical Journal</i> , 2011, 742, 103.	1.6	351
12	MERGERS AND BULGE FORMATION IN $\Lambda$ CDM: WHICH MERGERS MATTER?. <i>Astrophysical Journal</i> , 2010, 715, 202-229.	1.6	344
13	Statistical analysis of galaxy surveys - I. Robust error estimation for two-point clustering statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 396, 19-38.	1.6	283
14	The Evolving Luminosity Function of Red Galaxies. <i>Astrophysical Journal</i> , 2007, 654, 858-877.	1.6	275
15	The WiggleZ Dark Energy Survey: improved distance measurements to $z \hat{=} 1$ with reconstruction of the baryonic acoustic feature. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 3524-3542.	1.6	263
16	Halo assembly bias and its effects on galaxy clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 374, 1303-1309.	1.6	243
17	SEDS: THE SPITZER EXTENDED DEEP SURVEY. SURVEY DESIGN, PHOTOMETRY, AND DEEP IRAC SOURCE COUNTS. <i>Astrophysical Journal</i> , 2013, 769, 80.	1.6	220
18	The DEEP2 Galaxy Redshift Survey: the relationship between galaxy properties and environment at $z \hat{=} 1$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 370, 198-212.	1.6	219

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19	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
20	SEMI-ANALYTIC GALAXY EVOLUTION (SAGE): MODEL CALIBRATION AND BASIC RESULTS. Astrophysical Journal, Supplement Series, 2016, 222, 22.	3.0	214
21	The WiggleZ Dark Energy Survey: Final data release and cosmological results. Physical Review D, 2012, 86, .	1.6	205
22	AEGIS: The Color-Magnitude Relation for X-Ray-selected Active Galactic Nuclei. Astrophysical Journal, 2007, 660, L11-L14.	1.6	203
23	<a href="#">The 2dF Galaxy Redshift Survey: Color and Luminosity Dependence of Galaxy Clustering at</a> documentclass{aastex} usepackage{amsbsy} 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} ormalfont selectfont		

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37	The DEEP2 galaxy redshift survey: the evolution of the blue fraction in groups and the field. Monthly Notices of the Royal Astronomical Society, 2007, 376, 1425-1444.	1.6	127
38	Angular momentum evolution of galaxies in EAGLE. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3850-3870.	1.6	126
39	Predictions for ASKAP neutral hydrogen surveys. Monthly Notices of the Royal Astronomical Society, 2012, 426, 3385-3402.	1.6	116
40	A DIVERSITY OF PROGENITORS AND HISTORIES FOR ISOLATED SPIRAL GALAXIES. Astrophysical Journal, 2012, 756, 26.	1.6	114
41	Evolution in the Halo Masses of Isolated Galaxies between $z \approx 1$ and $z \approx 0$ : From DEEP2 to SDSS. Astrophysical Journal, 2007, 654, 153-171.	1.6	113
42	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
43	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
44	CANDELS VISUAL CLASSIFICATIONS: SCHEME, DATA RELEASE, AND FIRST RESULTS. Astrophysical Journal, Supplement Series, 2015, 221, 11.	3.0	106
45	Effect of Local Environment and Stellar Mass on Galaxy Quenching and Morphology at $0.5 < z < 2.0$ . Astrophysical Journal, 2017, 847, 134.	1.6	106
46	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
47	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
48	THE EVOLUTION OF STAR FORMATION HISTORIES OF QUIESCENT GALAXIES. Astrophysical Journal, 2016, 832, 79.	1.6	99
49	SEMI-ANALYTIC MODELS FOR THE CANDELS SURVEY: COMPARISON OF PREDICTIONS FOR INTRINSIC GALAXY PROPERTIES. Astrophysical Journal, 2014, 795, 123.	1.6	91
50	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
51	Statistical analysis of galaxy surveys â€” 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
52	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
53	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
54	Building disc structure and galaxy properties through angular momentum: the Dark Sage semi-analytic model. Monthly Notices of the Royal Astronomical Society, 2016, 461, 859-876.	1.6	77

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55	A simple model to link the properties of quasars to the properties of dark matter haloes out to high redshift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 394, 1109-1119.	1.6	74
56	Absence of evidence is not evidence of absence: the colour-density relation at fixed stellar mass persists to $z \sim 1$ .... <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 409, 337-345.	1.6	69
57	The 2dF Galaxy Redshift Survey: higher-order galaxy correlation functions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 352, 1232-1244.	1.6	68
58	Satellite galaxies and fossil groups in the Millennium Simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 382, 1901-1916.	1.6	65
59	Galaxy Cluster Mass Reconstruction Project â€” 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
60	The 2dF Galaxy Redshift Survey: hierarchical galaxy clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 351, L44-L48.	1.6	62
61	MultiDark-Galaxies: data release and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 5206-5231.	1.6	60
62	The 2dF Galaxy Redshift Survey: voids and hierarchical scaling models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 352, 828-836.	1.6	59
63	CANDELS OBSERVATIONS OF THE ENVIRONMENTAL DEPENDENCE OF THE COLOR-MASS-MORPHOLOGY RELATION AT $z < 1.6$ . <i>Astrophysical Journal</i> , 2013, 770, 58.	1.6	59
64	Galaxy cluster mass reconstruction project â€” 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
65	nFTy cosmology: comparison of galaxy formation models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 4029-4059.	1.6	55
66	The 2dF Galaxy Redshift Survey: the clustering of galaxy groups. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 352, 211-225.	1.6	53
67	THE MID-LIFE CRISIS OF THE MILKY WAY AND M31. <i>Astrophysical Journal</i> , 2011, 736, 84.	1.6	53
68	Evidence for Merger-driven Growth in Luminous, High- $z$ , Obscured AGNs in the CANDELS/COSMOS Field. <i>Astrophysical Journal</i> , 2018, 853, 63.	1.6	52
69	THE EVOLUTION OF BRIGHTEST CLUSTER GALAXIES IN A HIERARCHICAL UNIVERSE. <i>Astrophysical Journal</i> , 2012, 759, 43.	1.6	50
70	The Intrinsic Characteristics of Galaxies on the $SFR \sim M_{\text{star}}$ Plane at $1.2 < z < 4$ : I. The Correlation between Stellar Age, Central Density, and Position Relative to the Main Sequence. <i>Astrophysical Journal</i> , 2018, 853, 131.	1.6	50
71	Where do â€”red and deadâ€” early-type void galaxies come from?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 386, 2285-2289.	1.6	47
72	The growth of discs and bulges during hierarchical galaxy formation â€” 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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91	Statistical analysis of galaxy surveys - III. The non-linear clustering of red and blue galaxies in the 2dFGRS. Monthly Notices of the Royal Astronomical Society, 2007, 379, 1562-1570.	1.6	25
92	Using galaxy pairs to probe star formation during major halo mergers. Monthly Notices of the Royal Astronomical Society, 2015, 450, 1546-1564.	1.6	25
93	nFTy cosmology: the clustering consistency of galaxy formation models. Monthly Notices of the Royal Astronomical Society, 2017, 469, 749-762.	1.6	24
94	Measures of galaxy environment – III. Difficulties in identifying protoclusters at $z \gtrsim 2$ . Monthly Notices of the Royal Astronomical Society, 2013, 433, 3314-3324.	1.6	23
95	The Gigaparsec WiggleZ simulations: characterizing scale-dependant bias and associated systematics in growth of structure measurements. Monthly Notices of the Royal Astronomical Society, 2015, 449, 1454-1469.	1.6	23
96	Cosmic CARNage I: on the calibration of galaxy formation models. Monthly Notices of the Royal Astronomical Society, 2018, 475, 2936-2954.	1.6	23
97	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
98	Where do galaxies end? Comparing measurement techniques of hydrodynamic-simulation galaxies' integrated properties. Monthly Notices of the Royal Astronomical Society, 2014, 445, 239-255.	1.6	21
99	Measures of galaxy environment – II. Rank-ordered mark correlations. Monthly Notices of the Royal Astronomical Society, 2013, 429, 458-468.	1.6	20
100	Modelling the ages and metallicities of early-type galaxies in Fundamental Plane space. Monthly Notices of the Royal Astronomical Society, 2014, 445, 3092-3104.	1.6	19
101	Galaxy And Mass Assembly (GAMA): A 'No Smoking' Zone for Giant Elliptical Galaxies?. Astrophysical Journal, 2017, 842, 81.	1.6	17
102	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
103	The indirect influence of quasars on reionization. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 480, L33-L37.	1.2	16
104	AEGIS: Chandra Observation of DEEP2 Galaxy Groups and Clusters. Astrophysical Journal, 2007, 660, L27-L30.	1.6	15
105	Cosmic CARNage II: the evolution of the galaxy stellar mass function in observations and galaxy formation models. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1197-1210.	1.6	14
106	On the Transition of the Galaxy Quenching Mode at $0.5 \lesssim z \lesssim 1$ in CANDELS. Astrophysical Journal, 2018, 860, 60.	1.6	13
107	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
108	[OIII] emitters in MultiDark-Galaxies and DEEP2. Monthly Notices of the Royal Astronomical Society, 2020, 497, 5432-5453.	1.6	12

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109	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
110	Do You See What I See? Exploring the Consequences of Luminosity Limits in Black Hole "Galaxy Evolution Studies. Astrophysical Journal, 2017, 843, 125.	1.6	11
111	Merger History of Central Galaxies in Semi-analytic Models of Galaxy Formation. Astrophysical Journal, 2018, 863, 40.	1.6	10
112	Consequences of dark matter self-annihilation for galaxy formation. Monthly Notices of the Royal Astronomical Society, 2008, 388, 1652-1666.	1.6	9
113	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
114	Evolution of Black Hole and Galaxy Growth in a Semi-numerical Galaxy Formation Model. Astrophysical Journal, 2019, 881, 110.	1.6	7
115	Model Dispersion with prism: An Alternative to MCMC for Rapid Analysis of Models. Astrophysical Journal, Supplement Series, 2019, 242, 22.	3.0	6
116	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
117	Pairwise velocities in the "Running FLRW" cosmological model. Monthly Notices of the Royal Astronomical Society, 0, , stx070.	1.6	4
118	Thinking outside the halo: tracing the large-scale distribution of diffuse cosmic metals with semi-analytic models. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2306-2316.	1.6	3
119	Beyond the halo: redefining environment with unbound matter in $N$ -body simulations. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1779-1791.	1.6	2
120	Non-linear structure formation in the "Running FLRW" cosmological model. Monthly Notices of the Royal Astronomical Society, 2016, 460, 729-741.	1.6	1
121	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
122	Ultra-fast Model Emulation with PRISM: Analyzing the Meraxes Galaxy Formation Model. Astrophysical Journal, Supplement Series, 2021, 253, 50.	3.0	0