

Rupert Aêc Croft

List of Publications by Year in descending order

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119
papers

16,703
citations

57758

44
h-index

19749

117
g-index

120
all docs

120
docs citations

120
times ranked

10125
citing authors

#	ARTICLE	IF	CITATIONS
1	THE ELEVENTH AND TWELFTH DATA RELEASES OF THE SLOAN DIGITAL SKY SURVEY: FINAL DATA FROM SDSS-III. <i>Astrophysical Journal, Supplement Series</i> , 2015, 219, 12.	7.7	1,877
2	SDSS-III: MASSIVE SPECTROSCOPIC SURVEYS OF THE DISTANT UNIVERSE, THE MILKY WAY, AND EXTRA-SOLAR PLANETARY SYSTEMS. <i>Astronomical Journal</i> , 2011, 142, 72.	4.7	1,700
3	THE BARYON OSCILLATION SPECTROSCOPIC SURVEY OF SDSS-III. <i>Astronomical Journal</i> , 2013, 145, 10.	4.7	1,571
4	THE EIGHTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST DATA FROM SDSS-III. <i>Astrophysical Journal, Supplement Series</i> , 2011, 193, 29.	7.7	1,166
5	THE NINTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST SPECTROSCOPIC DATA FROM THE SDSS-III BARYON OSCILLATION SPECTROSCOPIC SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2012, 203, 21.	7.7	1,158
6	Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe. <i>Astronomical Journal</i> , 2017, 154, 28.	4.7	1,100
7	THE TENTH DATA RELEASE OF THE SLOAN DIGITAL SKY SURVEY: FIRST SPECTROSCOPIC DATA FROM THE SDSS-III APACHE POINT OBSERVATORY GALACTIC EVOLUTION EXPERIMENT. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 17.	7.7	820
8	THE SDSS-IV EXTENDED BARYON OSCILLATION SPECTROSCOPIC SURVEY: OVERVIEW AND EARLY DATA. <i>Astronomical Journal</i> , 2016, 151, 44.	4.7	582
9	Cosmological implications of baryon acoustic oscillation measurements. <i>Physical Review D</i> , 2015, 92, .	4.7	487
10	The 13th Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey Mapping Nearby Galaxies at Apache Point Observatory. <i>Astrophysical Journal, Supplement Series</i> , 2017, 233, 25.	7.7	406
11	Toward a Precise Measurement of Matter Clustering: Ly α Forest Data at Redshifts $z \leq 4$. <i>Astrophysical Journal</i> , 2002, 581, 20-52.	4.5	352
12	Recovery of the Power Spectrum of Mass Fluctuations from Observations of the Ly α Forest. <i>Astrophysical Journal</i> , 1998, 495, 44-62.	4.5	338
13	The Sloan Digital Sky Survey Quasar Catalog: Twelfth data release. <i>Astronomy and Astrophysics</i> , 2017, 597, A79.	5.1	337
14	The MassiveBlack-II simulation: the evolution of haloes and galaxies to $z \sim 1/4$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 1349-1374.	4.4	262
15	THE SDSS-III BARYON OSCILLATION SPECTROSCOPIC SURVEY: QUASAR TARGET SELECTION FOR DATA RELEASE NINE. <i>Astrophysical Journal, Supplement Series</i> , 2012, 199, 3.	7.7	246
16	COLD FLOWS AND THE FIRST QUASARS. <i>Astrophysical Journal Letters</i> , 2012, 745, L29.	8.3	219
17	Weak Lensing Surveys and the Intrinsic Correlation of Galaxy Ellipticities. <i>Astrophysical Journal</i> , 2000, 545, 561-571.	4.5	217
18	The Angular Momentum of Gas in Protogalaxies. I. Implications for the Formation of Disk Galaxies. <i>Astrophysical Journal</i> , 2002, 576, 21-35.	4.5	201

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19	The Power Spectrum of Mass Fluctuations Measured from the Ly α Forest at Redshift $z=2.5$. <i>Astrophysical Journal</i> , 1999, 520, 1-23.	4.5	193
20	The one-dimensional Ly α forest power spectrum from BOSS. <i>Astronomy and Astrophysics</i> , 2013, 559, A85.	5.1	166
21	The BlueTides simulation: first galaxies and reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 2778-2791.	4.4	148
22	Black Hole Growth and Activity in a Λ Cold Dark Matter Universe. <i>Astrophysical Journal</i> , 2003, 593, 56-68.	4.5	131
23	The Lyman- α forest in three dimensions: measurements of large scale flux correlations from BOSS 1st-year data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 001-001.	5.4	126
24	Cosmological Limits on the Neutrino Mass from the Ly α Forest. <i>Physical Review Letters</i> , 1999, 83, 1092-1095.	7.8	98
25	Ionizing Radiation Fluctuations and Large-scale Structure in the Ly α Forest. <i>Astrophysical Journal</i> , 2004, 610, 642-662.	4.5	97
26	The richness dependence of galaxy cluster correlations: results from a redshift survey of rich APM clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 1997, 291, 305-313.	4.4	86
27	Intergalactic Helium Absorption in Cold Dark Matter Models. <i>Astrophysical Journal</i> , 1997, 488, 532-549.	4.5	83
28	The origin of the most massive black holes at high- z : BlueTides and the next quasar frontier. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 4243-4251.	4.4	83
29	Hydrodynamic Simulation of the Cosmological X-ray Background. <i>Astrophysical Journal</i> , 2001, 557, 67-87.	4.5	83
30	Warm Hot Gas in and around the Milky Way: Detection and Implications of O VII Absorption toward LMC X-3. <i>Astrophysical Journal</i> , 2005, 635, 386-395.	4.5	78
31	The influence of large-scale structures on halo shapes and alignments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 370, 1422-1428.	4.4	77
32	LY α FOREST TOMOGRAPHY FROM BACKGROUND GALAXIES: THE FIRST MEGAPARSEC-RESOLUTION LARGE-SCALE STRUCTURE MAP AT $z > 2$. <i>Astrophysical Journal Letters</i> , 2014, 795, L12.	8.3	70
33	THE BOSS Ly α FOREST SAMPLE FROM SDSS DATA RELEASE 9. <i>Astronomical Journal</i> , 2013, 145, 69.	4.7	68
34	Galaxy morphology, kinematics and clustering in a hydrodynamic simulation of a Λ cold dark matter universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 43-67.	4.4	67
35	The properties of the first galaxies in the BlueTides simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 2517-2530.	4.4	63
36	sphray: a smoothed particle hydrodynamics ray tracer for radiative transfer. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 386, 1931-1946.	4.4	59

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37	OBSERVATIONAL REQUIREMENTS FOR Ly α FOREST TOMOGRAPHIC MAPPING OF LARGE-SCALE STRUCTURE AT $z \sim 2$. <i>Astrophysical Journal</i> , 2014, 788, 49.	4.5	59
38	High-redshift Galaxies and the Ly α Forest in a Cold Dark Matter Universe. <i>Astrophysical Journal</i> , 2002, 580, 634-652.	4.5	52
39	Suppressing Linear Power on Dwarf Galaxy Halo Scales. <i>Astrophysical Journal</i> , 2000, 539, 497-504.	4.5	51
40	Reconstruction of cosmological density and velocity fields in the Lagrangian Zel'dovich approximation. <i>Monthly Notices of the Royal Astronomical Society</i> , 1997, 285, 793-805.	4.4	50
41	Interpreting the observed UV continuum slopes of high-redshift galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 2885-2890.	4.4	50
42	Large-scale clustering of Lyman α emission intensity from SDSS/BOSS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 3541-3572.	4.4	50
43	The Lyman-continuum photon production efficiency in the high-redshift Universe. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 458, L6-L9.	3.3	49
44	The ASTRID simulation: the evolution of supermassive black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 670-692.	4.4	47
45	AI-assisted superresolution cosmological simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	46
46	The ASTRID simulation: galaxy formation and reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 3703-3716.	4.4	43
47	High-redshift supermassive black holes: accretion through cold flows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 1865-1879.	4.4	42
48	Intensity mapping with SDSS/BOSS Lyman α emission, quasars, and their Lyman α forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 1320-1336.	4.4	41
49	QSO obscuration at high redshift ($z \sim 7$): predictions from the <i>bluetides</i> simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 2135-2151.	4.4	41
50	The APM cluster-galaxy cross-correlation function: constraints on Λ and galaxy bias. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 305, 547-562.	4.4	40
51	THE FORMATION OF MILKY WAY-MASS DISK GALAXIES IN THE FIRST 500 MILLION YEARS OF A COLD DARK MATTER UNIVERSE. <i>Astrophysical Journal Letters</i> , 2015, 808, L17.	8.3	40
52	The formation of galaxies hosting ~ 6 quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 2397-2406.	4.4	38
53	Closing In on Λ : The Amplitude of Mass Fluctuations from Galaxy Clusters and the Ly α Forest. <i>Astrophysical Journal</i> , 1999, 522, 563-568.	4.5	36
54	Gravitational redshifts from large-scale structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 3008-3017.	4.4	36

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55	Theoretical predictions for the effect of nebular emission on the broad-band photometry of high-redshift galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 2885-2895.	4.4	35
56	Lyman- α forest constraints on decaying dark matter. <i>Physical Review D</i> , 2013, 88, .	4.7	35
57	Investigating galaxy-filament alignments in hydrodynamic simulations using density ridges. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 3341-3350.	4.4	35
58	Forecasts for the <i>WFIRST</i> High Latitude Survey using the BlueTides simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 3520-3530.	4.4	34
59	Predictions for the clustering properties of the Lyman-alpha forest – I. One-point statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 309, 885-904.	4.4	31
60	Non-parametric 3D map of the intergalactic medium using the Lyman-alpha forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 2599-2609.	4.4	31
61	The photometric properties of galaxies in the early Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 3170-3178.	4.4	31
62	Helium Reionization Simulations. II. Signatures of Quasar Activity on the IGM. <i>Astrophysical Journal</i> , 2017, 841, 87.	4.5	31
63	Dust-obscured star-forming galaxies in the early universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 5363-5369.	4.4	30
64	Relativistic distortions in the large-scale clustering of SDSS-III BOSS CMASS galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 470, 2822-2833.	4.4	29
65	Monsters in the dark: predictions for luminous galaxies in the early Universe from the <i>BlueTides</i> simulation. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2016, 461, L51-L55.	3.3	28
66	Simulation of Soft X-Ray Emission Lines from the Missing Baryons. <i>Astrophysical Journal</i> , 2005, 623, 612-626.	4.5	26
67	The descendants of the first quasars in the BlueTides simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 597-603.	4.4	25
68	Gas outflows from the $z=7.54$ quasar: predictions from the BlueTides simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 4877-4884.	4.4	24
69	The host galaxies of $z=7$ quasars: predictions from the <i>BlueTides</i> simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 3819-3836.	4.4	24
70	Nebular-line emission during the Epoch of Reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 6079-6094.	4.4	24
71	Early black holes in cosmological simulations: luminosity functions and clustering behaviour. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 424, 1892-1898.	4.4	23
72	Constraints on Cosmological Parameters from the Ly α Forest Power Spectrum and COBEDMR. <i>Astrophysical Journal</i> , 2001, 560, 15-27.	4.5	22

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73	Future dark energy constraints from measurements of quasar parallax: <i>Gaia</i> , <i>SIM</i> and beyond. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 397, 1739-1747.	4.4	22
74	Gravitational Redshifts in Simulated Galaxy Clusters. <i>Astrophysical Journal</i> , 2004, 607, 164-174.	4.5	21
75	GROWTH OF EARLY SUPERMASSIVE BLACK HOLES AND THE HIGH-REDSHIFT EDDINGTON RATIO DISTRIBUTION. <i>Astrophysical Journal Letters</i> , 2012, 755, L8.	8.3	21
76	Recovering the Primordial Density Fluctuations: A Comparison of Methods. <i>Astrophysical Journal</i> , 1999, 515, 471-486.	4.5	21
77	Detecting neutral hydrogen in emission at redshift $z \approx 1$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 415, 2580-2593.	4.4	20
78	The Cosmological Evolution of Metal Enrichment in Quasar Host Galaxies. <i>Astrophysical Journal</i> , 2004, 610, 80-92.	4.5	19
79	Large-scale 3D mapping of the intergalactic medium using the Lyman α forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 3610-3623.	4.4	19
80	AI-assisted superresolution cosmological simulations II. Halo substructures, velocities, and higher order statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 1021-1033.	4.4	19
81	Radiation-induced large-scale structure during the reionization epoch: the autocorrelation function. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 1501-1520.	4.4	18
82	Constraining quasar host halo masses with the strength of nearby Ly α forest absorption. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 387, 377-386.	4.4	17
83	Dark matter halo occupation: environment and clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 2766-2777.	4.4	17
84	The radial acceleration relation in disc galaxies in the MassiveBlack-II simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 3125-3132.	4.4	17
85	On the Search for Quasar Light Echoes. <i>Astrophysical Journal</i> , 2008, 674, 660-667.	4.5	16
86	Observing the host galaxies of high-redshift quasars with <i>JWST</i> : predictions from the <i>BlueTides</i> simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1209-1228.	4.4	16
87	The impact of dust on the sizes of galaxies in the Epoch of Reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 5475-5491.	4.4	15
88	A tiny host galaxy for the first giant black hole: $z \approx 7.5$ quasar in <i>BlueTides</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 1388-1399.	4.4	14
89	Simulating the Effects of Intergalactic Gray Dust. <i>Astrophysical Journal</i> , 2000, 534, L123-L126.	4.5	13
90	N-body simulations of gravitational redshifts and other relativistic distortions of galaxy clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 2345-2356.	4.4	13

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91	The Space Density of Galaxy Peaks and the Linear Matter Power Spectrum. <i>Astrophysical Journal</i> , 1998, 495, 554-563.	4.5	12
92	Noise estimates for measurements of weak lensing from the Ly α forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 2841-2847.	4.4	12
93	Trend filtering – I. A modern statistical tool for time-domain astronomy and astronomical spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 4005-4018.	4.4	12
94	Luminosity function of [OIII] emission-line galaxies in the MassiveBlack-II simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 277-287.	4.4	11
95	Two-point moments in cosmological large-scale structure - I. Theory and comparison with simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 331, 13-22.	4.4	10
96	TERAPIXEL IMAGING OF COSMOLOGICAL SIMULATIONS. <i>Astrophysical Journal, Supplement Series</i> , 2011, 197, 18.	7.7	10
97	The PAU survey: Ly α intensity mapping forecast. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3883-3899.	4.4	10
98	A potentially pure test of cosmic geometry: galaxy clusters and the real space Alcock-Paczynski test. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 374, 535-546.	4.4	9
99	Weak lensing of the Lyman α forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1814-1821.	4.4	9
100	Growth and anisotropy of ionization fronts near high-redshift quasars in the MassiveBlack simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 1554-1563.	4.4	8
101	Helium Reionization Simulations. III. The Helium Ly α Forest. <i>Astrophysical Journal</i> , 2018, 868, 106.	4.5	8
102	Large scale structure reconstruction with short-wavelength modes. <i>Physical Review D</i> , 2020, 101, .	4.7	8
103	Lyman α forest-CMB cross-correlation and the search for the ionized baryons at high redshift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 369, 1090-1102.	4.4	7
104	Relativistic effects on galaxy redshift samples due to target selection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 2077-2087.	4.4	7
105	Direct geometrical measurement of the Hubble constant from galaxy parallax: predictions for the Vera C. Rubin Observatory and Nancy Grace Roman Space Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 2688-2703.	4.4	7
106	Confronting predictions of the galaxy stellar mass function with observations at high redshift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 2098-2103.	4.4	6
107	Prediction of galaxy ellipticities and reduction of shape noise in cosmic shear measurements. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 4422-4427.	4.4	5
108	Trend filtering – II. Denoising astronomical signals with varying degrees of smoothness. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 4019-4032.	4.4	5

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109	Peaks in the cosmological density field: parameter constraints from 2dF Galaxy Redshift Survey data. Monthly Notices of the Royal Astronomical Society, 2010, 401, 1989-1998.	4.4	4
110	Towards machine-assisted meta-studies: the Hubble constant. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3217-3228.	4.4	4
111	Deep forest: Neural network reconstruction of the Lyman-Î± forest. Monthly Notices of the Royal Astronomical Society, 2021, 506, 5212-5222.	4.4	4
112	Peaks in the cosmological density field: sensitivity to initial power spectrum, redshift distortions and galaxy halo occupation. Monthly Notices of the Royal Astronomical Society, 2007, 382, 1591-1600.	4.4	3
113	Reconstructing the gravitational lensing potential from the Lyman-Î± forest. Astronomy and Astrophysics, 2020, 642, A122.	5.1	3
114	Stacking redshifted 21â€‰cm images of Hâ€‰ regions around high-redshift galaxies as a probe of early reionization. Monthly Notices of the Royal Astronomical Society, 2020, 501, 146-156.	4.4	3
115	Proposed SMEX to spectrally analyze the diffuse x-ray background: The Baryonic Extragalactic Structure Tracer (BEST). , 2003, 4851, 388.		2
116	On the possibility of baryon acoustic oscillation measurements at redshift $z > 7.6$ with the Roman space telescope. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4955-4970.	4.4	2
117	Deep forest: neural network reconstruction of intergalactic medium temperature. Monthly Notices of the Royal Astronomical Society, 2022, 515, 1568-1579.	4.4	2
118	Petascale Cosmology: Simulations of Structure Formation. Computing in Science and Engineering, 2015, 17, 40-46.	1.2	0
119	LARGE-SCALE STRUCTURE AT HIGH REDSHIFT. , 2006, , .		0