

# Rupert Aêc Croft

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7514601/publications.pdf>

Version: 2024-02-01

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 ASTRID simulation: the evolution of supermassive black holes. Monthly Notices of the Royal Astronomical Society, 2022, 513, 670-692.	4.4	47
2	The impact of dust on the sizes of galaxies in the Epoch of Reionization. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5475-5491.	4.4	15
3	The ASTRID simulation: galaxy formation and reionization. Monthly Notices of the Royal Astronomical Society, 2022, 512, 3703-3716.	4.4	43
4	Deep forest: neural network reconstruction of intergalactic medium temperature. Monthly Notices of the Royal Astronomical Society, 2022, 515, 1568-1579.	4.4	2
5	AI-assisted superresolution cosmological simulations. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	46
6	Observing the host galaxies of high-redshift quasars with <i>JWST</i>: predictions from the <sc>BlueTides</sc> simulation. Monthly Notices of the Royal Astronomical Society, 2021, 506, 1209-1228.	4.4	16
7	Deep forest: Neural network reconstruction of the Lyman-Î± forest. Monthly Notices of the Royal Astronomical Society, 2021, 506, 5212-5222.	4.4	4
8	AI-assisted superresolution cosmological simulations â€“ II. Halo substructures, velocities, and higher order statistics. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1021-1033.	4.4	19
9	The PAU survey: LyÎ± intensity mapping forecast. Monthly Notices of the Royal Astronomical Society, 2021, 501, 3883-3899.	4.4	10
10	Direct geometrical measurement of the Hubble constant from galaxy parallax: predictions for the Vera C. Rubin Observatory and Nancy Grace Roman Space Telescope. Monthly Notices of the Royal Astronomical Society, 2021, 501, 2688-2703.	4.4	7
11	Towards machine-assisted meta-studies: the Hubble constant. Monthly Notices of the Royal Astronomical Society, 2020, 492, 3217-3228.	4.4	4
12	The host galaxies of <i>z</i> = 7 quasars: predictions from the <sc>BlueTides</sc> simulation. Monthly Notices of the Royal Astronomical Society, 2020, 499, 3819-3836.	4.4	24
13	On the possibility of baryon acoustic oscillation measurements at redshift <i>z</i> &gt; 7.6 with the Roman space telescope. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4955-4970.	4.4	2
14	QSO obscuration at high redshift (<i>z</i> > 7): predictions from the <sc>bluetides</sc> simulation. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2135-2151.	4.4	41
15	Large scale structure reconstruction with short-wavelength modes. Physical Review D, 2020, 101, .	4.7	8
16	Trend filtering â€“ I. A modern statistical tool for time-domain astronomy and astronomical spectroscopy. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4005-4018.	4.4	12
17	Trend filtering â€“ II. Denoising astronomical signals with varying degrees of smoothness. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4019-4032.	4.4	5
18	Nebular-line emission during the Epoch of Reionization. Monthly Notices of the Royal Astronomical Society, 2020, 493, 6079-6094.	4.4	24

#	ARTICLE	IF	CITATIONS
19	Reconstructing the gravitational lensing potential from the Lyman- $\alpha$ forest. <i>Astronomy and Astrophysics</i> , 2020, 642, A122.	5.1	3
20	Stacking redshifted 21-cm images of H I regions around high-redshift galaxies as a probe of early reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 146-156.	4.4	3
21	A tiny host galaxy for the first giant black hole: $z \approx 7.5$ quasar in BlueTides. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 1388-1399.	4.4	14
22	Noise estimates for measurements of weak lensing from the Ly $\alpha$ forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 2841-2847.	4.4	12
23	Helium Reionization Simulations. III. The Helium Ly $\alpha$ Forest. <i>Astrophysical Journal</i> , 2018, 868, 106.	4.5	8
24	Intensity mapping with SDSS/BOSS Lyman- $\alpha$ emission, quasars, and their Lyman- $\alpha$ forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 1320-1336.	4.4	41
25	Gas outflows from the $z \approx 7.54$ quasar: predictions from the BlueTides simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 4877-4884.	4.4	24
26	Weak lensing of the Lyman $\alpha$ forest. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1814-1821.	4.4	9
27	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
28	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
29	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
30	Helium Reionization Simulations. II. Signatures of Quasar Activity on the IGM. <i>Astrophysical Journal</i> , 2017, 841, 87.	4.5	31
31	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
32	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
33	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
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	The properties of the first galaxies in the BlueTides simulation. Monthly Notices of the Royal Astronomical Society, 2017, 469, 2517-2530.	4.4	63
38	The Sloan Digital Sky Survey Quasar Catalog: Twelfth data release. Astronomy and Astrophysics, 2017, 597, A79.	5.1	337
39	Relativistic effects on galaxy redshift samples due to target selection. Monthly Notices of the Royal Astronomical Society, 2017, 471, 2077-2087.	4.4	7
40	Forecasts for the <i>WFIRST</i> High Latitude Survey using the BlueTides simulation. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3520-3530.	4.4	34
41	Large-scale clustering of Lyman $\pm$ emission intensity from SDSS/BOSS. Monthly Notices of the Royal Astronomical Society, 2016, 457, 3541-3572.	4.4	50
42	The photometric properties of galaxies in the early Universe. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3170-3178.	4.4	31
43	Monsters in the dark: predictions for luminous galaxies in the early Universe from the <i>Boltzmann Transport</i> simulation. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 461, L51-L55.	3.3	28
44	The Lyman-continuum photon production efficiency in the high-redshift Universe. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 458, L6-L9.	3.3	49
45	The BlueTides simulation: first galaxies and reionization. Monthly Notices of the Royal Astronomical Society, 2016, 455, 2778-2791.	4.4	148
46	Large-scale 3D mapping of the intergalactic medium using the Lyman $\pm$ forest. Monthly Notices of the Royal Astronomical Society, 2016, 456, 3610-3623.	4.4	19
47	THE SDSS-IV EXTENDED BARYON OSCILLATION SPECTROSCOPIC SURVEY: OVERVIEW AND EARLY DATA. Astronomical Journal, 2016, 151, 44.	4.7	582
48	Cosmological implications of baryon acoustic oscillation measurements. Physical Review D, 2015, 92, .	4.7	487
49	THE FORMATION OF MILKY WAY-MASS DISK GALAXIES IN THE FIRST 500 MILLION YEARS OF A COLD DARK MATTER UNIVERSE. Astrophysical Journal Letters, 2015, 808, L17.	8.3	40
50	Investigating galaxy-filament alignments in hydrodynamic simulations using density ridges. Monthly Notices of the Royal Astronomical Society, 2015, 454, 3341-3350.	4.4	35
51	The MassiveBlack-II simulation: the evolution of haloes and galaxies to $z \sim 10$ . Monthly Notices of the Royal Astronomical Society, 2015, 450, 1349-1374.	4.4	262
52	Luminosity function of [O II] emission-line galaxies in the MassiveBlack-II simulation. Monthly Notices of the Royal Astronomical Society, 2015, 454, 277-287.	4.4	11
53	Petascale Cosmology: Simulations of Structure Formation. Computing in Science and Engineering, 2015, 17, 40-46.	1.2	0
54	THE ELEVENTH AND TWELFTH DATA RELEASES OF THE SLOAN DIGITAL SKY SURVEY: FINAL DATA FROM SDSS-III. Astrophysical Journal, Supplement Series, 2015, 219, 12.	7.7	1,877

#	ARTICLE	IF	CITATIONS
55	LY $\alpha$ FOREST TOMOGRAPHY FROM BACKGROUND GALAXIES: THE FIRST MEGAPARSEC-RESOLUTION LARGE-SCALE STRUCTURE MAP AT $z \approx 2$ . <i>Astrophysical Journal Letters</i> , 2014, 795, L12.	8.3	70
56	OBSERVATIONAL REQUIREMENTS FOR LY $\alpha$ FOREST TOMOGRAPHIC MAPPING OF LARGE-SCALE STRUCTURE AT $z \approx 2$ . <i>Astrophysical Journal</i> , 2014, 788, 49.	4.5	59
57	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
58	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
59	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
60	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
61	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
62	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
63	Gravitational redshifts from large-scale structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 3008-3017.	4.4	36
64	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
65	THE BARYON OSCILLATION SPECTROSCOPIC SURVEY OF SDSS-III. <i>Astronomical Journal</i> , 2013, 145, 10.	4.7	1,571
66	THE BOSS LY $\alpha$ FOREST SAMPLE FROM SDSS DATA RELEASE 9. <i>Astronomical Journal</i> , 2013, 145, 69.	4.7	68
67	Lyman- $\alpha$ forest constraints on decaying dark matter. <i>Physical Review D</i> , 2013, 88, .	4.7	35
68	The one-dimensional Ly $\alpha$ forest power spectrum from BOSS. <i>Astronomy and Astrophysics</i> , 2013, 559, A85.	5.1	166
69	Dark matter halo occupation: environment and clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 2766-2777.	4.4	17
70	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
71	GROWTH OF EARLY SUPERMASSIVE BLACK HOLES AND THE HIGH-REDSHIFT EDDINGTON RATIO DISTRIBUTION. <i>Astrophysical Journal Letters</i> , 2012, 755, L8.	8.3	21
72	COLD FLOWS AND THE FIRST QUASARS. <i>Astrophysical Journal Letters</i> , 2012, 745, L29.	8.3	219

#	ARTICLE	IF	CITATIONS
73	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
74	The formation of galaxies hosting $\sim 6$ quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 2397-2406.	4.4	38
75	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
76	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
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 Lyman- $\alpha$ 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
79	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
80	TERAPIXEL IMAGING OF COSMOLOGICAL SIMULATIONS. <i>Astrophysical Journal, Supplement Series</i> , 2011, 197, 18.	7.7	10
81	Peaks in the cosmological density field: parameter constraints from 2dF Galaxy Redshift Survey data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 401, 1989-1998.	4.4	4
82	Future dark energy constraints from measurements of quasar parallax: Gaia, SIM and beyond. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 397, 1739-1747.	4.4	22
83	Galaxy morphology, kinematics and clustering in a hydrodynamic simulation of a $\Lambda$ CDM cold dark matter universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 43-67.	4.4	67
84	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
85	Constraining quasar host halo masses with the strength of nearby Ly $\alpha$ forest absorption. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 387, 377-386.	4.4	17
86	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
87	On the Search for Quasar Light Echoes. <i>Astrophysical Journal</i> , 2008, 674, 660-667.	4.5	16
88	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
89	Peaks in the cosmological density field: sensitivity to initial power spectrum, redshift distortions and galaxy halo occupation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 382, 1591-1600.	4.4	3
90	Lyman $\alpha$ 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

#	ARTICLE	IF	CITATIONS
91	The influence of large-scale structures on halo shapes and alignments. Monthly Notices of the Royal Astronomical Society, 2006, 370, 1422-1428.	4.4	77
92	LARGE-SCALE STRUCTURE AT HIGH REDSHIFT. , 2006, , .		0
93	Warm Hot Gas in and around the Milky Way: Detection and Implications of O VII Absorption toward LMC X-3. Astrophysical Journal, 2005, 635, 386-395.	4.5	78
94	Simulation of Soft X-Ray Emission Lines from the Missing Baryons. Astrophysical Journal, 2005, 623, 612-626.	4.5	26
95	Gravitational Redshifts in Simulated Galaxy Clusters. Astrophysical Journal, 2004, 607, 164-174.	4.5	21
96	The Cosmological Evolution of Metal Enrichment in Quasar Host Galaxies. Astrophysical Journal, 2004, 610, 80-92.	4.5	19
97	Ionizing Radiation Fluctuations and Large-Scale Structure in the Ly $\alpha$ Forest. Astrophysical Journal, 2004, 610, 642-662.	4.5	97
98	Black Hole Growth and Activity in a $\Lambda$ Cold Dark Matter Universe. Astrophysical Journal, 2003, 593, 56-68.	4.5	131
99	Proposed SMEX to spectrally analyze the diffuse x-ray background: The Baryonic Extragalactic Structure Tracer (BEST). , 2003, 4851, 388.		2
100	Two-point moments in cosmological large-scale structure - I. Theory and comparison with simulations. Monthly Notices of the Royal Astronomical Society, 2002, 331, 13-22.	4.4	10
101	The Angular Momentum of Gas in Protogalaxies. I. Implications for the Formation of Disk Galaxies. Astrophysical Journal, 2002, 576, 21-35.	4.5	201
102	High-Redshift Galaxies and the Ly $\alpha$ Forest in a Cold Dark Matter Universe. Astrophysical Journal, 2002, 580, 634-652.	4.5	52
103	Toward a Precise Measurement of Matter Clustering: Ly $\alpha$ Forest Data at Redshifts $z \leq 4$ . Astrophysical Journal, 2002, 581, 20-52.	4.5	352
104	Constraints on Cosmological Parameters from the Ly $\alpha$ Forest Power Spectrum and COBEDMR. Astrophysical Journal, 2001, 560, 15-27.	4.5	22
105	Hydrodynamic Simulation of the Cosmological X-Ray Background. Astrophysical Journal, 2001, 557, 67-87.	4.5	83
106	Simulating the Effects of Intergalactic Gray Dust. Astrophysical Journal, 2000, 534, L123-L126.	4.5	13
107	Weak Lensing Surveys and the Intrinsic Correlation of Galaxy Ellipticities. Astrophysical Journal, 2000, 545, 561-571.	4.5	217
108	Suppressing Linear Power on Dwarf Galaxy Halo Scales. Astrophysical Journal, 2000, 539, 497-504.	4.5	51

#	ARTICLE	IF	CITATIONS
109	Cosmological Limits on the Neutrino Mass from the Ly $\alpha$ Forest. Physical Review Letters, 1999, 83, 1092-1095.	7.8	98
110	The APM cluster-galaxy cross-correlation function: constraints on $\hat{\Lambda}$ and galaxy bias. Monthly Notices of the Royal Astronomical Society, 1999, 305, 547-562.	4.4	40
111	Predictions for the clustering properties of the Lyman-alpha forest – I. One-point statistics. Monthly Notices of the Royal Astronomical Society, 1999, 309, 885-904.	4.4	31
112	Closing In on $\hat{\Omega}_M$ : The Amplitude of Mass Fluctuations from Galaxy Clusters and the Ly $\alpha$ Forest. Astrophysical Journal, 1999, 522, 563-568.	4.5	36
113	Recovering the Primordial Density Fluctuations: A Comparison of Methods. Astrophysical Journal, 1999, 515, 471-486.	4.5	21
114	The Power Spectrum of Mass Fluctuations Measured from the Ly $\alpha$ Forest at Redshift $z=2.5$ . Astrophysical Journal, 1999, 520, 1-23.	4.5	193
115	Recovery of the Power Spectrum of Mass Fluctuations from Observations of the Ly $\alpha$ Forest. Astrophysical Journal, 1998, 495, 44-62.	4.5	338
116	The Space Density of Galaxy Peaks and the Linear Matter Power Spectrum. Astrophysical Journal, 1998, 495, 554-563.	4.5	12
117	The richness dependence of galaxy cluster correlations: results from a redshift survey of rich APM clusters. Monthly Notices of the Royal Astronomical Society, 1997, 291, 305-313.	4.4	86
118	Reconstruction of cosmological density and velocity fields in the Lagrangian Zel'dovich approximation. Monthly Notices of the Royal Astronomical Society, 1997, 285, 793-805.	4.4	50
119	Intergalactic Helium Absorption in Cold Dark Matter Models. Astrophysical Journal, 1997, 488, 532-549.	4.5	83