

Zheng Cai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1661427/publications.pdf>

Version: 2024-02-01

60
papers

4,222
citations

279798

23
h-index

128289

60
g-index

61
all docs

61
docs citations

61
times ranked

5808
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	THE SDSS-IV EXTENDED BARYON OSCILLATION SPECTROSCOPIC SURVEY: OVERVIEW AND EARLY DATA. <i>Astronomical Journal</i> , 2016, 151, 44.	4.7	582
3	THE SDSS-IV EXTENDED BARYON OSCILLATION SPECTROSCOPIC SURVEY: QUASAR TARGET SELECTION. <i>Astrophysical Journal, Supplement Series</i> , 2015, 221, 27.	7.7	153
4	Discovery of an Enormous Ly α Nebula in a Massive Galaxy Overdensity at $z=2.3$. <i>Astrophysical Journal</i> , 2017, 837, 71.	4.5	111
5	Mapping the Most Massive Overdensities through Hydrogen (MAMMOTH). II. Discovery of the Extremely Massive Overdensity BOSS1441 at $z=2.32$. <i>Astrophysical Journal</i> , 2017, 839, 131.	4.5	84
6	PROBING VERY BRIGHT END OF GALAXY LUMINOSITY FUNCTION AT $z \sim 7$ USING HUBBLE SPACE TELESCOPE PURE PARALLEL OBSERVATIONS. <i>Astrophysical Journal Letters</i> , 2011, 728, L22.	8.3	78
7	A SURVEY OF LUMINOUS HIGH-REDSHIFT QUASARS WITH SDSS AND WISE. I. TARGET SELECTION AND OPTICAL SPECTROSCOPY. <i>Astrophysical Journal</i> , 2016, 819, 24.	4.5	78
8	Evolution of the Cool Gas in the Circumgalactic Medium of Massive Halos: A Keck Cosmic Web Imager Survey of Ly α Emission around QSOs at $z \sim 2$. <i>Astrophysical Journal, Supplement Series</i> , 2019, 245, 23.	7.7	76
9	Evidence for GN-z11 as a luminous galaxy at redshift 10.957. <i>Nature Astronomy</i> , 2021, 5, 256-261.	10.1	76
10	High Lyman Continuum Escape Fraction in a Lensed Young Compact Dwarf Galaxy at $z=2.5$. <i>Astrophysical Journal Letters</i> , 2017, 837, L12.	8.3	74
11	The Faint End of the $z=5$ Quasar Luminosity Function from the CFHTLS. <i>Astronomical Journal</i> , 2018, 155, 131.	4.7	74
12	MAPPING THE MOST MASSIVE OVERDENSITY THROUGH HYDROGEN (MAMMOTH). I. METHODOLOGY. <i>Astrophysical Journal</i> , 2016, 833, 135.	4.5	66
13	Gaia17biu/SN 2017egm in NGC 3191: The Closest Hydrogen-poor Superluminous Supernova to Date Is in a Normal, Massive, Metal-rich Spiral Galaxy. <i>Astrophysical Journal</i> , 2018, 853, 57.	4.5	60
14	DISCOVERY OF EIGHT $z \sim 6$ QUASARS IN THE SLOAN DIGITAL SKY SURVEY OVERLAP REGIONS. <i>Astronomical Journal</i> , 2015, 149, 188.	4.7	55
15	Deep learning of quasar spectra to discover and characterize damped Ly α systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 1151-1168.	4.4	52
16	Direct evidence of AGN feedback: a post-starburst galaxy stripped of its gas by AGN-driven winds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 3993-4016.	4.4	43
17	MAHALO Deep Cluster Survey I. Accelerated and enhanced galaxy formation in the densest regions of a protocluster at $z=2.5$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 1977-1999.	4.4	43
18	Keck/Palomar Cosmic Web Imagers Reveal an Enormous Ly α Nebula in an Extremely Overdense Quasi-stellar Object Pair Field at $z=2.45$. <i>Astrophysical Journal Letters</i> , 2018, 861, L3.	8.3	41

#	ARTICLE	IF	CITATIONS
19	MAHALO Deep Cluster Survey II. Characterizing massive forming galaxies in the Spiderweb protocluster at $z \approx 2.2$. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5630-5650.	4.4	37
20	Initial Results from a Systematic Search for Changing-look Active Galactic Nuclei Selected via Mid-infrared Variability. Astrophysical Journal, 2020, 889, 46.	4.5	35
21	AN ULTRA-LUMINOUS QUASAR AT $z = 5.363$ WITH A TEN BILLION SOLAR MASS BLACK HOLE AND A METAL-RICH DLA AT $z \approx 5$. Astrophysical Journal Letters, 2015, 807, L9.	8.3	33
22	PROBING POPULATION III STARS IN GALAXY IOK-1 AT $z = 6.96$ THROUGH He II EMISSION. Astrophysical Journal Letters, 2011, 736, L28.	8.3	29
23	$\text{Ly}\alpha$ EMITTER GALAXIES AT $z \approx 2.8$ IN THE EXTENDED CHANDRA DEEP FIELD SOUTH. I. TRACING THE LARGE-SCALE STRUCTURE VIA $\text{Ly}\alpha$ IMAGING. Astrophysical Journal, Supplement Series, 2016, 226, 23.	7.7	28
24	The Third Data Release of the Beijing-Arizona Sky Survey. Astrophysical Journal, Supplement Series, 2019, 245, 4.	7.7	25
25	Overdensity of submillimeter galaxies around the $z \approx 2.3$ MAMMOTH-1 nebula. Astronomy and Astrophysics, 2018, 620, A202.	5.1	21
26	The First Data Release of the Beijing-Arizona Sky Survey. Astronomical Journal, 2017, 153, 276.	4.7	20
27	Accelerated Galaxy Growth and Environmental Quenching in a Protocluster at $z = 3.24$. Astrophysical Journal, 2021, 911, 46.	4.5	19
28	The Cold Circumgalactic Environment of MAMMOTH-I: Dynamically Cold Gas in the Core of an Enormous $\text{Ly}\alpha$ Nebula. Astrophysical Journal, 2019, 887, 86.	4.5	19
29	A GLIMPSE AT QUASAR HOST GALAXY FAR-UV EMISSION USING DAMPED $\text{Ly}\alpha$'s AS NATURAL CORONAGRAPHs. Astrophysical Journal, 2014, 793, 139.	4.5	18
30	The Mass-Metallicity Relation at Cosmic Noon in Overdense Environments: First Results from the MAMMOTH-I Grism HST Slitless Spectroscopic Survey. Astrophysical Journal, 2022, 926, 70.	4.5	18
31	Cosmic Galaxy-IGM H I Relation at $z \approx 3$ Probed in the COSMOS/UltraVISTA 1.6 Deg ² Field. Astrophysical Journal, 2017, 835, 281.	4.5	17
32	From large-scale environment to CGM angular momentum to star-forming activities. I. Star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3148-3162.	4.4	17
33	Massive Molecular Outflow and 100 kpc Extended Cold Halo Gas in the Enormous $\text{Ly}\alpha$ Nebula of QSO 1228+3128. Astrophysical Journal Letters, 2021, 922, L29.	8.3	16
34	The faint host galaxies of C IV absorbers at $z \gtrsim 5$. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3223-3237.	4.4	15
35	Statistical Correlation between the Distribution of $\text{Ly}\alpha$ Emitters and Intergalactic Medium H I at $z \approx 2.2$ Mapped by the Subaru/Hyper Suprime-Cam. Astrophysical Journal, 2021, 907, 3.	4.5	15
36	A Detailed Study of Massive Galaxies in a Protocluster at $z \approx 3.13$. Astrophysical Journal, 2020, 899, 79.	4.5	15

#	ARTICLE	IF	CITATIONS
37	MAMMOTH: confirmation of two massive galaxy overdensities at $z = 2.24$ with H α emitters. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4354-4364.	4.4	14
38	Constraining C iii] Emission in a Sample of Five Luminous $z = 5.7$ Galaxies. Astrophysical Journal Letters, 2017, 838, L22.	8.3	13
39	Probing the Metal Enrichment of the Intergalactic Medium at $z = 5.6$ Using the Hubble Space Telescope. Astrophysical Journal Letters, 2017, 849, L18.	8.3	13
40	Spectroscopic Confirmation of Two Extremely Massive Protoclusters, BOSS1244 and BOSS1542, at $z = 2.24$. Astrophysical Journal, 2021, 915, 32.	4.5	13
41	CONSTRAINING VERY HIGH MASS POPULATION III STARS THROUGH He II EMISSION IN GALAXY BDF-521 AT $z = 7.01$. Astrophysical Journal Letters, 2015, 799, L19.	8.3	12
42	A possible bright ultraviolet flash from a galaxy at redshift $z = 11$. Nature Astronomy, 2021, 5, 262-267.	10.1	12
43	Three-dimensional Distribution Map of H i Gas and Galaxies around an Enormous Ly α Nebula and Three QSOs at $z = 2.3$ Revealed by the H i Tomographic Mapping Technique. Astrophysical Journal, 2020, 896, 45.	4.5	12
44	Submillimetre galaxies in two massive protoclusters at $z = 2.24$: witnessing the enrichment of extreme starbursts in the outskirts of HAE density peaks. Monthly Notices of the Royal Astronomical Society, 2022, 512, 4893-4908.	4.4	12
45	Discovery of a Ly α -emitting Dark Cloud within the $z = 2.8$ SMM J02399-0136 System. Astrophysical Journal, 2019, 875, 130.	4.5	11
46	A [C ii] 158 μ m emitter associated with an O i absorber at the end of the reionization epoch. Nature Astronomy, 2021, 5, 1110-1117.	10.1	9
47	Discovery of a Protocluster Core Associated with an Enormous Ly α Nebula at $z = 2.3$. Astrophysical Journal, 2021, 922, 236.	4.5	9
48	Deep Learning of Dark Energy Spectroscopic Instrument Mock Spectra to Find Damped Ly α Systems. Astrophysical Journal, Supplement Series, 2022, 259, 28.	7.7	8
49	First Census of Gas-phase Metallicity Gradients of Star-forming Galaxies in Overdense Environments at Cosmic Noon. Astrophysical Journal Letters, 2022, 929, L8.	8.3	8
50	LBT/LUCI SPECTROSCOPIC OBSERVATIONS OF $z = 7$ GALAXIES. Astrophysical Journal, 2015, 806, 108.	4.5	7
51	More than softer-when-brighter: The X-ray powerlaw spectral variability in NGC 4051. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	7
52	Constraining the Halo Mass of Damped Ly α Absorption Systems (DLAs) at $z = 3.5$ Using the Quasar-CMB Lensing Cross-correlation. Astrophysical Journal, 2020, 905, 176.	4.5	7
53	Spatially Resolved Molecular Interstellar Medium in a $z = 6.6$ Quasar Host Galaxy. Astrophysical Journal, 2022, 930, 27.	4.5	7
54	Improved Ly α Tomography Using Optimized Reconstruction with Constraints on Absorption (ORCA). Astrophysical Journal, 2021, 916, 20.	4.5	6

#	ARTICLE	IF	CITATIONS
55	Mid-infrared Outbursts in Nearby Galaxies (MIRONG). II. Optical Spectroscopic Follow-up. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 21.	7.7	6
56	The PAU survey: measurements of the 4000 Å... spectral break with narrow-band photometry. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 146-166.	4.4	5
57	A Ringed Dwarf LINER 1 Galaxy Hosting an Intermediate-mass Black Hole with Large-scale Rotation-like Emission. <i>Astrophysical Journal</i> , 2017, 837, 109.	4.5	3
58	Discovery of a Damped Ly α Galaxy at $z \approx 3$ toward the Quasar SDSS J011852+040644. <i>Astrophysical Journal</i> , 2021, 908, 129.	4.5	3
59	L. Jiang et al. reply. <i>Nature Astronomy</i> , 2021, 5, 998-1000.	10.1	3
60	Deep Hubble Space Telescope Imaging on the Extended Ly α Emission of a QSO at $z=2.19$ with a Damped Lyman Alpha System as a Natural Coronagraph. <i>Astrophysical Journal Letters</i> , 2020, 889, L12.	8.3	2