

Guillermo Barro

List of Publications by Year in descending order

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78
papers

6,609
citations

71061

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3582
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#	ARTICLE	IF	CITATIONS
1	Fast, Slow, Early, Late: Quenching Massive Galaxies at $z \sim 0.8$. <i>Astrophysical Journal</i> , 2022, 926, 134.	1.6	70
2	From Naked Spheroids to Disky Galaxies: How Do Massive Disk Galaxies Shape Their Morphology?. <i>Astrophysical Journal</i> , 2022, 929, 121.	1.6	18
3	Reconciling the results of the $z \sim 2$ MOSDEF and KBSS-MOSFIRE Surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 3871-3892.	1.6	5
4	The Baltimore Oriole's Nest: Cool Winds from the Inner and Outer Parts of a Star-forming Galaxy at $z = 1.3$. <i>Astrophysical Journal</i> , 2022, 930, 146.	1.6	7
5	The MOSDEF Survey: Environmental Dependence of the Gas-phase Metallicity of Galaxies at $1.4 \leq z \leq 2.6^*$. <i>Astrophysical Journal</i> , 2021, 908, 120.	1.6	18
6	The MOSDEF survey: the mass-metallicity relationship and the existence of the FMR at $z \sim 1.5$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1237-1249.	1.6	11
7	The MOSDEF Survey: The Evolution of the Mass-Metallicity Relation from $z = 0$ to $z \sim 3.3^*$. <i>Astrophysical Journal</i> , 2021, 914, 19.	1.6	124
8	Dissecting the Size-Mass and $\Sigma_{\text{star}} - \Sigma_{\text{gas}}$ Mass Relations at $1.0 < z < 2.5$: Galaxy Mass Profiles and Color Gradients as a Function of Spectral Shape. <i>Astrophysical Journal</i> , 2021, 915, 87.	1.6	30
9	The MOSDEF survey: a comprehensive analysis of the rest-optical emission-line properties of $z \sim 2.3$ star-forming galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 2600-2614.	1.6	28
10	The Mass-Metallicity Relation at $z \sim 1$ and Its Dependence on the Star Formation Rate. <i>Astrophysical Journal</i> , 2021, 919, 143.	1.6	17
11	Quenching as a Contest between Galaxy Halos and Their Central Black Holes. <i>Astrophysical Journal</i> , 2020, 897, 102.	1.6	66
12	The MOSDEF Survey: Kinematic and Structural Evolution of Star-forming Galaxies at $1.4 \leq z \leq 3.8$. <i>Astrophysical Journal</i> , 2020, 894, 91.	1.6	34
13	Structural and stellar-population properties versus bulge types in Sloan Digital Sky Survey central galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 1686-1707.	1.6	23
14	The MOSDEF survey: direct-method metallicities and ISM conditions at $z \sim 1.5 - 3.5$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 1427-1455.	1.6	116
15	The MOSDEF survey: differences in SFR and metallicity for morphologically selected mergers at $z \sim 2$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 137-145.	1.6	8
16	The Star Formation Rate-Radius Connection: Data and Implications for Wind Strength and Halo Concentration. <i>Astrophysical Journal</i> , 2020, 899, 93.	1.6	8
17	The MOSDEF Survey: [S iii] as a New Probe of Evolving Interstellar Medium Conditions*. <i>Astrophysical Journal Letters</i> , 2020, 888, L11.	3.0	19
18	Color Gradients along the Quiescent Galaxy Sequence: Clues to Quenching and Structural Growth. <i>Astrophysical Journal Letters</i> , 2020, 899, L26.	3.0	24

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19	The MOSDEF Survey: Neon as a Probe of ISM Physical Conditions at High Redshift [*] . <i>Astrophysical Journal Letters</i> , 2020, 902, L16.	3.0	20
20	The CANDELS/SHARDS Multiwavelength Catalog in GOODS-N: Photometry, Photometric Redshifts, Stellar Masses, Emission-line Fluxes, and Star Formation Rates. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 22.	3.0	111
21	Stellar Metallicities and Elemental Abundance Ratios of $z \sim 1.4$ Massive Quiescent Galaxies*. <i>Astrophysical Journal Letters</i> , 2019, 880, L31.	3.0	33
22	The structural properties of classical bulges and discs from $z \sim 2$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 4135-4154.	1.6	14
23	HALO7D I. The Line-of-sight Velocities of Distant Main-sequence Stars in the Milky Way Halo. <i>Astrophysical Journal</i> , 2019, 876, 124.	1.6	14
24	Half-mass Radii for $z \sim 7000$ Galaxies at $1.0 \leq z \leq 2.5$: Most of the Evolution in the Mass-Size Relation Is Due to Color Gradients. <i>Astrophysical Journal</i> , 2019, 877, 103.	1.6	90
25	Optically Faint Massive Balmer Break Galaxies at $z \geq 3$ in the CANDELS/GOODS Fields. <i>Astrophysical Journal</i> , 2019, 876, 135.	1.6	37
26	The MOSDEF Survey: No Significant Enhancement in Star Formation or Deficit in Metallicity in Merging Galaxy Pairs at $1.5 \leq z \leq 3.5$ [—] . <i>Astrophysical Journal</i> , 2019, 874, 18.	1.6	14
27	Half-mass Radii of Quiescent and Star-forming Galaxies Evolve Slowly from $0 \leq z \leq 2.5$: Implications for Galaxy Assembly Histories*. <i>Astrophysical Journal Letters</i> , 2019, 885, L22.	3.0	47
28	The MOSDEF Survey: The Metallicity Dependence of X-Ray Binary Populations at $z \sim 2$. <i>Astrophysical Journal</i> , 2019, 885, 65.	1.6	28
29	The MOSDEF Survey: Sulfur Emission-line Ratios Provide New Insights into Evolving Interstellar Medium Conditions at High Redshift [—] . <i>Astrophysical Journal Letters</i> , 2019, 881, L35.	3.0	41
30	The Isophotal Structure of Star-forming Galaxies at $0.5 \leq z \leq 1.8$ in CANDELS: Implications for the Evolution of Galaxy Structure. <i>Astrophysical Journal</i> , 2018, 854, 70.	1.6	4
31	Galaxy Inclination and the $IR \propto I^2$ Relation: Effects on UV Star Formation Rate Measurements at Intermediate to High Redshifts. <i>Astrophysical Journal</i> , 2018, 869, 161.	1.6	18
32	The MOSDEF Survey: Significant Evolution in the Rest-frame Optical Emission Line Equivalent Widths of Star-forming Galaxies at $z = 1.4 \leq z \leq 3.8$. <i>Astrophysical Journal</i> , 2018, 869, 92.	1.6	83
33	The MOSDEF Survey: Stellar Continuum Spectra and Star Formation Histories of Active, Transitional, and Quiescent Galaxies at $1.4 \leq z \leq 2.6$. <i>Astrophysical Journal Letters</i> , 2018, 867, L16.	3.0	8
34	The MOSDEF Survey: A Stellar Mass-SFR-Metallicity Relation Exists at $z \sim 2.3$ [—] . <i>Astrophysical Journal</i> , 2018, 858, 99.	1.6	108
35	Demographics of Star-forming Galaxies since $z \sim 2.5$. I. The UVJ Diagram in CANDELS. <i>Astrophysical Journal</i> , 2018, 858, 100.	1.6	79
36	Major merging history in CANDELS. I. Evolution of the incidence of massive galaxy-galaxy pairs from $z = 3$ to $z \sim 1.4$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 1549-1573.	1.6	65

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37	A catalog of polychromatic bulge-disc decompositions of $\sim 17,600$ galaxies in CANDELS. Monthly Notices of the Royal Astronomical Society, 2018, 478, 5410-5426.	1.6	49
38	On the Transition of the Galaxy Quenching Mode at $0.5 < z < 1$ in CANDELS. Astrophysical Journal, 2018, 860, 60.	1.6	13
39	shards: constraints on the dust attenuation law of star-forming galaxies at $z \sim 2$. Monthly Notices of the Royal Astronomical Society, 2018, 475, 2363-2374.	1.6	25
40	Structural and Star-forming Relations since $z \sim 3$: Connecting Compact Star-forming and Quiescent Galaxies. Astrophysical Journal, 2017, 840, 47.	1.6	180
41	CANDELS Multi-wavelength Catalogs: Source Identification and Photometry in the CANDELS Extended Groth Strip. Astrophysical Journal, Supplement Series, 2017, 229, 32.	3.0	127
42	CANDELS: Elevated Black Hole Growth in the Progenitors of Compact Quiescent Galaxies at $z \sim 2$. Astrophysical Journal, 2017, 846, 112.	1.6	72
43	The relationship between star formation activity and galaxy structural properties in CANDELS and a semi-analytic model. Monthly Notices of the Royal Astronomical Society, 2017, 465, 619-640.	1.6	41
44	The nature of massive transition galaxies in CANDELS, GAMA and cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2054-2084.	1.6	63
45	The AGN-Star Formation Connection: Future Prospects with JWST. Astrophysical Journal, 2017, 849, 111.	1.6	31
46	The Origins of UV-optical Color Gradients in Star-forming Galaxies at $z \sim 2$: Predominant Dust Gradients but Negligible sSFR Gradients. Astrophysical Journal Letters, 2017, 844, L2.	3.0	20
47	Testing the Recovery of Intrinsic Galaxy Sizes and Masses of $z \sim 2$ Massive Galaxies Using Cosmological Simulations. Astrophysical Journal Letters, 2017, 844, L6.	3.0	25
48	STELLAR MASS-GAS-PHASE METALLICITY RELATION AT $0.5 < z < 0.7$: A POWER LAW WITH INCREASING SCATTER TOWARD THE LOW-MASS REGIME. Astrophysical Journal, 2016, 822, 103.	1.6	29
49	THE EVOLUTION OF STAR FORMATION HISTORIES OF QUIESCENT GALAXIES. Astrophysical Journal, 2016, 832, 79.	1.6	99
50	THE BURSTY STAR FORMATION HISTORIES OF LOW-MASS GALAXIES AT $0.4 < z < 1$ REVEALED BY STAR FORMATION RATES MEASURED FROM $H\beta$ AND FUV. Astrophysical Journal, 2016, 833, 37.	1.6	69
51	THE MOSDEF SURVEY: THE STRONG AGREEMENT BETWEEN $H\beta$ AND UV-TO-FIR STAR FORMATION RATES FOR $z \sim 2$ STAR-FORMING GALAXIES*. Astrophysical Journal Letters, 2016, 820, L23.	3.0	47
52	KINEMATIC DOWNSIZING AT $z \sim 2$. Astrophysical Journal, 2016, 830, 14.	1.6	44
53	THE MOSDEF SURVEY: DYNAMICAL AND BARYONIC MASSES AND KINEMATIC STRUCTURES OF STAR-FORMING GALAXIES AT $1.4 < z < 2.6$. Astrophysical Journal, 2016, 819, 80.	1.6	61
54	THE UV-optical COLOR GRADIENTS IN STAR-FORMING GALAXIES AT $0.5 < z < 1.5$: ORIGINS AND LINK TO GALAXY ASSEMBLY. Astrophysical Journal Letters, 2016, 822, L25.	3.0	25

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55	CAUGHT IN THE ACT: GAS AND STELLAR VELOCITY DISPERSIONS IN A FAST QUENCHING COMPACT STAR-FORMING GALAXY AT $z \approx 1.7$. <i>Astrophysical Journal</i> , 2016, 820, 120.	1.6	39
56	Pathways to quiescence: SHARDS view on the star formation histories of massive quiescent galaxies at $1.0 < z < 1.5$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 3743-3768.	1.6	35
57	Beyond spheroids and discs: classifications of CANDELS galaxy structure at $1.4 < z < 2$ via principal component analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 963-987.	1.6	38
58	THE TEAM KECK REDSHIFT SURVEY 2: MOSFIRE SPECTROSCOPY OF THE GOODS-NORTH FIELD. <i>Astronomical Journal</i> , 2015, 150, 153.	1.9	32
59	SHARDS: A GLOBAL VIEW OF THE STAR FORMATION ACTIVITY AT $z \approx 0.84$ and $z \approx 1.23$. <i>Astrophysical Journal</i> , 2015, 812, 155.	1.6	16
60	Compaction and quenching of high- z galaxies in cosmological simulations: blue and red nuggets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2327-2353.	1.6	392
61	A WFC3 GRISM EMISSION LINE REDSHIFT CATALOG IN THE GOODS-SOUTH FIELD. <i>Astronomical Journal</i> , 2015, 149, 178.	1.9	43
62	CLUMPY GALAXIES IN CANDELS. I. THE DEFINITION OF UV CLUMPS AND THE FRACTION OF CLUMPY GALAXIES AT $0.5 < z < 3$. <i>Astrophysical Journal</i> , 2015, 800, 39.	1.6	172
63	A CRITICAL ASSESSMENT OF STELLAR MASS MEASUREMENT METHODS. <i>Astrophysical Journal</i> , 2015, 808, 101.	1.6	106
64	THE PROGENITORS OF THE COMPACT EARLY-TYPE GALAXIES AT HIGH REDSHIFT. <i>Astrophysical Journal</i> , 2014, 780, 1.	1.6	103
65	CANDELS/GOODS-S, CDFS, AND ECDFS: PHOTOMETRIC REDSHIFTS FOR NORMAL AND X-RAY-DETECTED GALAXIES. <i>Astrophysical Journal</i> , 2014, 796, 60.	1.6	117
66	KECK-I MOSFIRE SPECTROSCOPY OF COMPACT STAR-FORMING GALAXIES AT $z \approx 2$: HIGH VELOCITY DISPERSIONS IN PROGENITORS OF COMPACT QUIESCENT GALAXIES. <i>Astrophysical Journal</i> , 2014, 795, 145.	1.6	70
67	TESTING DIAGNOSTICS OF NUCLEAR ACTIVITY AND STAR FORMATION IN GALAXIES AT $z > 1$. <i>Astrophysical Journal Letters</i> , 2013, 763, L6.	3.0	49
68	CANDELS MULTI-WAVELENGTH CATALOGS: SOURCE DETECTION AND PHOTOMETRY IN THE GOODS-SOUTH FIELD. <i>Astrophysical Journal</i> , Supplement Series, 2013, 207, 24.	3.0	400
69	A CRITICAL ASSESSMENT OF PHOTOMETRIC REDSHIFT METHODS: A CANDELS INVESTIGATION. <i>Astrophysical Journal</i> , 2013, 775, 93.	1.6	290
70	SERENDIPITOUS DISCOVERY OF A MASSIVE cD GALAXY AT $z = 1.096$: IMPLICATIONS FOR THE EARLY FORMATION AND LATE EVOLUTION OF cD GALAXIES. <i>Astrophysical Journal</i> , 2013, 769, 147.	1.6	11
71	CANDELS MULTI-WAVELENGTH CATALOGS: SOURCE IDENTIFICATION AND PHOTOMETRY IN THE CANDELS UKIDSS ULTRA-DEEP SURVEY FIELD. <i>Astrophysical Journal</i> , Supplement Series, 2013, 206, 10.	3.0	252
72	CANDELS: THE PROGENITORS OF COMPACT QUIESCENT GALAXIES AT $z \approx 2$. <i>Astrophysical Journal</i> , 2013, 765, 104.	1.6	367

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73	SHARDS: AN OPTICAL SPECTRO-PHOTOMETRIC SURVEY OF DISTANT GALAXIES. <i>Astrophysical Journal</i> , 2013, 762, 46.	1.6	95
74	SMOOTH(ER) STELLAR MASS MAPS IN CANDELS: CONSTRAINTS ON THE LONGEVITY OF CLUMPS IN HIGH-REDSHIFT STAR-FORMING GALAXIES. <i>Astrophysical Journal</i> , 2012, 753, 114.	1.6	271
75	GALAXY STRUCTURE AND MODE OF STAR FORMATION IN THE SFR-MASS PLANE FROM $z \sim 2.5$ TO $z \sim 0.1$. <i>Astrophysical Journal</i> , 2011, 742, 96.	1.6	590
76	UV-TO-FIR ANALYSIS OF SPITZER /IRAC SOURCES IN THE EXTENDED GROTH STRIP. I. MULTI-WAVELENGTH PHOTOMETRY AND SPECTRAL ENERGY DISTRIBUTIONS. <i>Astrophysical Journal</i> , Supplement Series, 2011, 193, 13.	3.0	98
77	The Stellar Mass Assembly of Galaxies from $z = 0$ to $z = 4$: Analysis of a Sample Selected in the Rest-Frame Near-Infrared with Spitzer. <i>Astrophysical Journal</i> , 2008, 675, 234-261.	1.6	502
78	Exploring the Evolutionary Paths of the Most Massive Galaxies since $z \sim 2$. <i>Astrophysical Journal</i> , 2008, 687, 50-58.	1.6	61