Rachel Bezanson

List of Publications by Year
in descending order

83 papers	6,673 citations	109321 35 h-index	58581 82 g-index
84 all docs	84 docs citations	84 times ranked	3184 citing authors

#	Article	IF	Citations
1	Diagnosing DASH: A Catalog of Structural Properties for the COSMOS-DASH Survey. Astrophysical Journal, 2022, 925, 34.	4.5	12
2	Now You See It, Now You Donâ€™t: Star Formation Truncation Precedes the Loss of Molecular Gas by âˆ¼100 Myr in Massive Poststarburst Galaxies at z âˆ¼ 0.6. Astrophysical Journal, 2022, 925, 153.	4.5	23
3	CLIMBER: Galaxyâ€“Halo Connection Constraints from Next-generation Surveys. Astrophysical Journal, 2022, 925, 180.	4.5	1
4	The LEGA-C of Nature and Nurture in Stellar Populations at z âˆ¼ 0.6â€“1.0: D_n4000 and HÎ´ Reveal Different Assembly Histories for Quiescent Galaxies in Different Environments. Astrophysical Journal, 2022, 926, 117.	4.5	8
5	SQuIGGLâƒ—E : Studying Quenching in Intermediate-z Galaxiesâ€”Gas, AnguLâƒ—ar Momentum, and Evolution. Astrophysical Journal, 2022, 926, 89.	4.5	20
6	LEGA-C: Analysis of Dynamical Masses from Ionized Gas and Stellar Kinematics at z âˆ¼ 0.8. Astrophysical Journal, 2022, 928, 126.	4.5	2
7	The LEGA-C and SAMI galaxy surveys: quiescent stellar populations and the massâ€“size plane across 6â€‰Gyr. Monthly Notices of the Royal Astronomical Society, 2022, 512, 3828-3845.	4.4	15
8	Quenching and the UVJ Diagram in the SIMBA Cosmological Simulation. Astrophysical Journal, 2022, 929, 94.	4.5	14
9	ALMA Measures Molecular Gas Reservoirs Comparable to Field Galaxies in a Low-mass Galaxy Cluster at z = 1.3. Astrophysical Journal, 2022, 929, 35.	4.5	6
10	The Compact Structures of Massive z âˆ¼ 0.7 Post-starburst Galaxies in the SQuIGGLâƒ—E Sample. Astrophysical Journal, 2022, 931, 51.	4.5	12
11	3D-DASH: The Widest Near-infrared Hubble Space Telescope Survey. Astrophysical Journal, 2022, 933, 129.	4.5	6
12	ALMA Measures Rapidly Depleted Molecular Gas Reservoirs in Massive Quiescent Galaxies at z âˆ¼ 1.5. Astrophysical Journal, 2021, 908, 54.	4.5	36
13	Early Science with the Large Millimeter Telescope: Constraining the Gas Fraction of a Compact Quiescent Galaxy at z = 1.883. Astrophysical Journal Letters, 2021, 910, L7.	8.3	17
14	The Fundamental Plane in the LEGA-C Survey: Unraveling the M/L Ratio Variations of Massive Star-forming and Quiescent Galaxies at z âˆ¼ 0.8. Astrophysical Journal, 2021, 913, 103.	4.5	19
15	Elemental Abundances and Ages of z âˆ¼ 0.7 Quiescent Galaxies on the Massâ€“Size Plane: Implication for Chemical Enrichment and Star Formation Quenching. Astrophysical Journal Letters, 2021, 917, L1.	8.3	18
16	Quenching of star formation from a lack of inflowing gas to galaxies. Nature, 2021, 597, 485-488.	27.8	36
17	Recent Star Formation in a Massive Slowly Quenched Lensed Quiescent Galaxy at z = 1.88. Astrophysical Journal Letters, 2021, 907, L8.	8.3	18
18	The Large Early Galaxy Astrophysics Census (LEGA-C) Data Release 3: 3000 High-quality Spectra of K _s-selected Galaxies at z > 0.6. Astrophysical Journal, Supplement Series, 2021, 256, 44.	7.7	52

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19	Toward Precise Galaxy Evolution: A Comparison between Spectral Indices of z â^¼1 Galaxies in the IllustrisTNG Simulation and the LEGA-C Survey. Astronomical Journal, 2021, 162, 201.	4.7	9
20	High Molecular-gas to Dust Mass Ratios Predicted in Most Quiescent Galaxies. Astrophysical Journal Letters, 2021, 922, L30.	8.3	17
21	Ubiquitous [O ii] Emission in Quiescent Galaxies at z â‰^ 0.85 from the LEGA-C Survey*. Astrophysical Journal, 2021, 923, 18.	4.5	8
22	Stellar Dynamical Models for 797 z â^¼ 0.8 Galaxies from LEGA-C. Astrophysical Journal, 2021, 923, 11.	4.5	11
23	Inverse stellar population age gradients of post-starburst galaxies at zÂ= 0.8 with LEGA-C. Monthly Notices of the Royal Astronomical Society, 2020, 497, 389-404.	4.4	22
24	The Colors and Sizes of Recently Quenched Galaxies: A Result of Compact Starburst before Quenching. Astrophysical Journal, 2020, 888, 77.	4.5	36
25	REQUIEM-2D Methodology: Spatially Resolved Stellar Populations of Massive Lensed Quiescent Galaxies from Hubble Space Telescope 2D Grism Spectroscopy. Astrophysical Journal, 2020, 900, 184.	4.5	15
26	SQuIGG E Survey: Massive zÂâ^¼Â0.6 Post-starburst Galaxies Exhibit Flat Age Gradients. Astrophysical Journal, 2020, 905, 79.	4.5	12
27	Stellar Kinematics and Environment at zÂâ^¼Â0.8 in the LEGA-C Survey: Massive Slow Rotators Are Built First in Overdense Environments. Astrophysical Journal Letters, 2020, 890, L25.	8.3	12
28	The Role of Active Galactic Nuclei in the Quenching of Massive Galaxies in the SQuIGG E Survey. Astrophysical Journal Letters, 2020, 899, L9.	8.3	18
29	Tightly Coupled Morpho-kinematic Evolution for Massive Star-forming and Quiescent Galaxies across 7 Gyr of Cosmic Time. Astrophysical Journal Letters, 2020, 903, L30.	8.3	8
30	Dust Attenuation Curves at z â^¼ 0.8 from LEGA-C: Precise Constraints on the Slope and 2175Ã…ÂBump Strength. Astrophysical Journal, 2020, 903, 146.	4.5	7
31	Rejuvenation in zÂâ^¼Â0.8 Quiescent Galaxies in LEGA-C. Astrophysical Journal, 2019, 877, 48.	4.5	41
32	COSMOS-DASH: The Evolution of the Galaxy Sizeâ€“Mass Relation since zÂâ^¼Â3 from New Wide-field WFC3 Imaging Combined with CANDELS/3D-HST. Astrophysical Journal, 2019, 880, 57.	4.5	118
33	Evidence for Inside-out Galaxy Growth and Quenching of a zÂâ^¼Â2 Compact Galaxy From High-resolution Molecular Gas Imaging. Astrophysical Journal, 2019, 883, 81.	4.5	22
34	Discovery of a Dark, Massive, ALMA-only Galaxy at zÂâ^¼Â5â€“6 in a Tiny 3 mm Survey. Astrophysical Journal, 2019, 884, 154.	4.5	70
35	Stellar Metallicities and Elemental Abundance Ratios of zÂâ^¼Â1.4 Massive Quiescent Galaxies*. Astrophysical Journal Letters, 2019, 880, L31.	8.3	33
36	An Absence of Radio-loud Active Galactic Nuclei in Geometrically Flat Quiescent Galaxies: Implications for Maintenance-mode Feedback Models. Astrophysical Journal Letters, 2019, 872, L12.	8.3	7

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37	Extremely Low Molecular Gas Content in a Compact, Quiescent Galaxy at zÂ=Â1.522. Astrophysical Journal Letters, 2019, 873, L19.	8.3	35
38	HST F160W Imaging of Very Massive Galaxies at 1.5Â<ÂzÂ<Â3.0: Diversity of Structures and the Effect of Close Pairs on Number Density Estimates. Astrophysical Journal, 2019, 871, 201.	4.5	11
39	Spatially Resolved Stellar Kinematics from LEGA-C: Increased Rotational Support in zÂâˆ¼Â0.8 Quiescent Galaxies. Astrophysical Journal, 2018, 858, 60.	4.5	52
40	The Large Early Galaxy Astrophysics Census (LEGA-C) Data Release 2: Dynamical and Stellar Population Properties of zÂâ‰²Â1 Galaxies in the COSMOS Field. Astrophysical Journal, Supplement Series, 2018, 239, 27.	7.7	74
41	Star Formation Histories of zÂâˆ¼Â1 Galaxies in LEGA-C. Astrophysical Journal, 2018, 861, 13.	4.5	36
42	Molecular Gas Contents and Scaling Relations for Massive, Passive Galaxies at Intermediate Redshifts from the LEGA-C Survey. Astrophysical Journal, 2018, 860, 103.	4.5	48
43	Stellar and Molecular Gas Rotation in a Recently Quenched Massive Galaxy at zÂâˆ¼Â0.7. Astrophysical Journal Letters, 2018, 860, L18.	8.3	15
44	1D Kinematics from Stars and Ionized Gas at zÂâˆ¼Â0.8 from the LEGA-C Spectroscopic Survey of Massive Galaxies. Astrophysical Journal Letters, 2018, 868, L36.	8.3	24
45	Complete IRAC Mapping of the CFHTLS-DEEP, MUSYC, and NMBS-II Fields. Publications of the Astronomical Society of the Pacific, 2018, 130, 124501.	3.1	10
46	Fast and Slow Paths to Quiescence: Ages and Sizes of 400 Quiescent Galaxies from the LEGA-C Survey. Astrophysical Journal, 2018, 868, 37.	4.5	72
47	Stellar Populations of over 1000 zÂâˆ¼Â0.8 Galaxies from LEGA-C: Ages and Star Formation Histories from D_n4000 and HÎ´. Astrophysical Journal, 2018, 855, 85.	4.5	45
48	Near-infrared Spectroscopy of Five Ultra-massive Galaxies at 1.7Â<ÂzÂ<Â2.7. Astrophysical Journal, 2017, 838, 57.	4.5	8
49	Predicting Quiescence: The Dependence of Specific Star Formation Rate on Galaxy Size and Central Density at 0.5 < z < 2.5. Astrophysical Journal, 2017, 838, 19.	4.5	87
50	Morphology Dependence of Stellar Age in Quenched Galaxies at Redshift âˆ¼1.2:Massive Compact Galaxies Are Older than More Extended Ones. Astrophysical Journal, 2017, 838, 94.	4.5	35
51	Massive Quenched Galaxies at zÂâˆ¼Â0.7 Retain Large Molecular Gas Reservoirs. Astrophysical Journal Letters, 2017, 846, L14.	8.3	58
52	Stellar Dynamics and Star Formation Histories of zÂâˆ¼Â1 Radio-loud Galaxies. Astrophysical Journal, 2017, 847, 72.	4.5	26
53	THE VLT LEGA-C SPECTROSCOPIC SURVEY: THE PHYSICS OF GALAXIES AT A LOOKBACK TIME OF 7 Gyr. Astrophysical Journal, Supplement Series, 2016, 223, 29.	7.7	133
54	THE 3D-HST SURVEY: HUBBLE SPACE TELESCOPE WFC3/G141 GRISM SPECTRA, REDSHIFTS, AND EMISSION LINE MEASUREMENTS FOR âˆ¼100,000 GALAXIES. Astrophysical Journal, Supplement Series, 2016, 225, 27.	7.7	513

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55	LEVERAGING 3D-HST GRISM REDSHIFTS TO QUANTIFY PHOTOMETRIC REDSHIFT PERFORMANCE. Astrophysical Journal, 2016, 822, 30.	4.5	26
56	LOW GAS FRACTIONS CONNECT COMPACT STAR-FORMING GALAXIES TO THEIR zÂâˆ¼Â2 QUIESCENT DESCENDANTS. Astrophysical Journal, 2016, 832, 19.	4.5	42
57	FORMING COMPACT MASSIVE GALAXIES. Astrophysical Journal, 2015, 813, 23.	4.5	240
58	GALAXY STRUCTURE AS A DRIVER OF THE STAR FORMATION SEQUENCE SLOPE AND SCATTER. Astrophysical Journal Letters, 2015, 811, L12.	8.3	98
59	ONE PLANE FOR ALL: MASSIVE STAR-FORMING AND QUIESCENT GALAXIES LIE ON THE SAME MASS FUNDAMENTAL PLANE ATzâˆ¼ 0 ANDzâˆ¼ 0.7. Astrophysical Journal, 2015, 799, 148.	4.5	31
60	THE RELATION BETWEEN DYNAMICAL MASS-TO-LIGHT RATIO AND COLOR FOR MASSIVE QUIESCENT GALAXIES OUT TOzâˆ¼ 2 AND COMPARISON WITH STELLAR POPULATION SYNTHESIS MODELS. Astrophysical Journal, 2015, 799, 125.	4.5	17
61	3D-HST WFC3-SELECTED PHOTOMETRIC CATALOGS IN THE FIVE CANDELS/3D-HST FIELDS: PHOTOMETRY, PHOTOMETRIC REDSHIFTS, AND STELLAR MASSES. Astrophysical Journal, Supplement Series, 2014, 214, 24.	7.7	728
62	THE FUNDAMENTAL PLANE OF MASSIVE QUIESCENT GALAXIES OUT TO z âˆ¼ 2. Astrophysical Journal Letters, 2014, 793, L31.	8.3	26
63	DENSE CORES IN GALAXIES OUT TOz= 2.5 IN SDSS, UltraVISTA, AND THE FIVE 3D-HST/CANDELS FIELDS. Astrophysical Journal, 2014, 791, 45.	4.5	111
64	A massive galaxy in its core formation phase three billion years after the Big Bang. Nature, 2014, 513, 394-397.	27.8	71
65	THE VELOCITY FUNCTION OF DARK MATTER HALOS AT R = 20 kpc: REMARKABLY LITTLE EVOLUTION SINCE z â‰ˆ 4. Astrophysical Journal Letters, 2013, 767, L21.	8.3	5
66	MASSIVE AND NEWLY DEAD: DISCOVERY OF A SIGNIFICANT POPULATION OF GALAXIES WITH HIGH-VELOCITY DISPERSIONS AND STRONG BALMER LINES AT z âˆ¼ 1.5 FROM DEEP KECK SPECTRA AND HST /WFC3 IMAGING. Astrophysical Journal Letters, 2013, 764, L8.	8.3	58
67	TIGHT CORRELATIONS BETWEEN MASSIVE GALAXY STRUCTURAL PROPERTIES AND DYNAMICS: THE MASS FUNDAMENTAL PLANE WAS IN PLACE BY z âˆ¼ 2. Astrophysical Journal Letters, 2013, 779, L21.	8.3	56
68	EXPLORING THE CHEMICAL LINK BETWEEN LOCAL ELLIPTICALS AND THEIR HIGH-REDSHIFT PROGENITORS. Astrophysical Journal Letters, 2013, 778, L24.	8.3	15
69	STELLAR KINEMATICS OFzâˆ¼ 2 GALAXIES AND THE INSIDE-OUT GROWTH OF QUIESCENT GALAXIES[,]. Astrophysical Journal, 2013, 771, 85.	4.5	179
70	3D-HST: A WIDE-FIELD GRISM SPECTROSCOPIC SURVEY WITH THE HUBBLE SPACE TELESCOPE. Astrophysical Journal, Supplement Series, 2012, 200, 13.	7.7	536
71	EVOLUTION OF QUIESCENT AND STAR-FORMING GALAXIES SINCEzâˆ¼ 1.5 AS A FUNCTION OF THEIR VELOCITY DISPERSIONS. Astrophysical Journal, 2012, 760, 62.	4.5	45
72	LARGE-SCALE STAR-FORMATION-DRIVEN OUTFLOWS AT 1 <<i>z</i>< 2 IN THE 3D-HST SURVEY. Astrophysical Journal, 2012, 760, 49.	4.5	24

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73	SPATIALLY RESOLVED HÎ± MAPS AND SIZES OF 57 STRONGLY STAR-FORMING GALAXIES AT z âˆ¼ 1 FROM 3D-HST: EVIDENCE FOR RAPID INSIDE-OUT ASSEMBLY OF DISK GALAXIES. Astrophysical Journal Letters, 2012, 747, L28.	8.3	104
74	A NEARBY ANALOG OF z âˆ¼ 2 COMPACT QUIESCENT GALAXIES WITH A ROTATING DISK. Astrophysical Journal Letters, 2012, 749, L10.	8.3	11
75	A LARGE POPULATION OF MASSIVE COMPACT POST-STARBURST GALAXIES ATz> 1: IMPLICATIONS FOR THE SIZE EVOLUTION AND QUENCHING MECHANISM OF QUIESCENT GALAXIES. Astrophysical Journal, 2012, 745, 179.	4.5	186
76	FIRST RESULTS FROM THE 3D-HST SURVEY: THE STRIKING DIVERSITY OF MASSIVE GALAXIES AT z > 1. Astrophysical Journal Letters, 2011, 743, L15.	8.3	103
77	THE STELLAR VELOCITY DISPERSION OF A COMPACT MASSIVE GALAXY AT z = 1.80 USING X-SHOOTER: CONFIRMATION OF THE EVOLUTION IN THE MASS-SIZE AND MASS-DISPERSION RELATIONS [,]. Astrophysical Journal Letters, 2011, 736, L9.	8.3	94
78	REDSHIFT EVOLUTION OF THE GALAXY VELOCITY DISPERSION FUNCTION. Astrophysical Journal Letters, 2011, 737, L31.	8.3	75
79	THE NEWFIRM MEDIUM-BAND SURVEY: PHOTOMETRIC CATALOGS, REDSHIFTS, AND THE BIMODAL COLOR DISTRIBUTION OF GALAXIES OUT TOzâˆ¼ 3. Astrophysical Journal, 2011, 735, 86.	4.5	376
80	THE GROWTH OF MASSIVE GALAXIES SINCEz= 2. Astrophysical Journal, 2010, 709, 1018-1041.	4.5	645
81	THE AGE SPREAD OF QUIESCENT GALAXIES WITH THE NEWFIRM MEDIUM-BAND SURVEY: IDENTIFICATION OF THE OLDEST GALAXIES OUT TOzâˆ¼ 2. Astrophysical Journal, 2010, 719, 1715-1732.	4.5	64
82	THE RELATION BETWEEN COMPACT, QUIESCENT HIGH-REDSHIFT GALAXIES AND MASSIVE NEARBY ELLIPTICAL GALAXIES: EVIDENCE FOR HIERARCHICAL, INSIDE-OUT GROWTH. Astrophysical Journal, 2009, 697, 1290-1298.	4.5	420
83	THE FREQUENCY OF TIDAL FEATURES ASSOCIATED WITH NEARBY LUMINOUS ELLIPTICAL GALAXIES FROM A STATISTICALLY COMPLETE SAMPLE. Astronomical Journal, 2009, 138, 1417-1427.	4.7	224