Caroline M S Straatman

List of Publications by Year
in descending order

58 papers	2,988 citations	159585 30 h-index	161849 54 g-index
58 all docs	58 docs citations	58 times ranked	2543 citing authors

#	Article	IF	Citations
1	The LEGA-C of Nature and Nurture in Stellar Populations at z â^¼ 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
2	LEGA-C: Analysis of Dynamical Masses from Ionized Gas and Stellar Kinematics at z â^¼ 0.8. Astrophysical Journal, 2022, 928, 126.	4.5	2
3	Consistent Dynamical and Stellar Masses with Potential Light IMF in Massive Quiescent Galaxies at 3 < z < 4 Using Velocity Dispersions Measurements with MOSFIRE. Astrophysical Journal Letters, 2021, 908, L35.	8.3	16
4	The Fundamental Plane in the LEGA-C Survey: Unraveling the M/L Ratio Variations of Massive Star-forming and Quiescent Galaxies at z â^¼ 0.8. Astrophysical Journal, 2021, 913, 103.	4.5	19
5	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
6	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
7	Introducing the FLAMINGOS-2 Split-K Medium-band Filters: The Impact on Photometric Selection of High-z Galaxies in the FENIKS-pilot survey. Astronomical Journal, 2021, 162, 225.	4.7	5
8	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
9	Stellar Dynamical Models for 797 z â^¼ 0.8 Galaxies from LEGA-C. Astrophysical Journal, 2021, 923, 11.	4.5	11
10	MOSEL: Strong [Oiii] 5007 Å… Emitting Galaxies at (3 < z < 4) from the ZFOURGE Survey. Astrophysical Journal, 2020, 898, 45.	4.5	16
11	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
12	A giant galaxy in the young Universe with a massive ring. Nature Astronomy, 2020, 4, 957-964.	10.1	9
13	The Colors and Sizes of Recently Quenched Galaxies: A Result of Compact Starburst before Quenching. Astrophysical Journal, 2020, 888, 77.	4.5	36
14	Reconstructing the Observed Ionizing Photon Production Efficiency at z â^¼ 2 Using Stellar Population Models. Astrophysical Journal, 2020, 889, 180.	4.5	14
15	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
16	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
17	Dust Attenuation Curves at z â^¼ 0.8 from LEGA-C: Precise Constraints on the Slope and 2175Å…ÂBump Strength. Astrophysical Journal, 2020, 903, 146.	4.5	7
18	Rejuvenation in zÂâ^¼Â0.8 Quiescent Galaxies in LEGA-C. Astrophysical Journal, 2019, 877, 48.	4.5	41

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19	A Tale of Two Clusters: An Analysis of Gas-phase Metallicity and Nebular Gas Conditions in Proto-cluster Galaxies at zÂâˆ¼Â2. Astrophysical Journal, 2019, 883, 153.	4.5	8
20	The Effects of Environment on the Evolution of the Galaxy Stellar Mass Function. Astrophysical Journal, 2018, 854, 30.	4.5	55
21	Spatially Resolved Stellar Kinematics from LEGA-C: Increased Rotational Support in zÂâˆ¼Â0.8 Quiescent Galaxies. Astrophysical Journal, 2018, 858, 60.	4.5	52
22	ZFOURGE: Using Composite Spectral Energy Distributions to Characterize Galaxy Populations at 1Â<ÂzÂ<Â4^{âˆ—}. Astrophysical Journal, 2018, 863, 131.	4.5	24
23	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
24	Star Formation Histories of zÂâˆ¼Â1 Galaxies in LEGA-C. Astrophysical Journal, 2018, 861, 13.	4.5	36
25	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
26	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
27	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
28	ZFIRE: 3D Modeling of Rotation, Dispersion, and Angular Momentum of Star-forming Galaxies at z âˆ¼ 2. Astrophysical Journal, 2018, 858, 47.	4.5	16
29	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
30	ZFIRE: The Evolution of the Stellar Mass Tullyâ€“Fisher Relation to Redshift âˆ¼2.2. Astrophysical Journal, 2017, 839, 57.	4.5	26
31	A massive, quiescent galaxy at a redshift of 3.717. Nature, 2017, 544, 71-74.	27.8	167
32	Discovery of Extreme [O iii]+HÎ² Emitting Galaxies Tracing an Overdensity at z âˆ¼ 3.5 in CDF-South^{âˆ—}. Astrophysical Journal Letters, 2017, 838, L12.	8.3	32
33	The Size Evolution of Star-forming Galaxies since zÂâˆ¼Â7 Using ZFOURGE. Astrophysical Journal Letters, 2017, 834, L11.	8.3	57
34	Stellar Dynamics and Star Formation Histories of zÂâˆ¼Â1 Radio-loud Galaxies. Astrophysical Journal, 2017, 847, 72.	4.5	26
35	ZFIRE: SIMILAR STELLAR GROWTH IN HÎ±-EMITTING CLUSTER AND FIELD GALAXIES AT z âˆ¼ 2. Astrophysical Journal, 2017, 834, 101.	4.5	14
36	ZFIRE: using HÎ± equivalent widths to investigate the in situ initial mass function at zÂâˆ¼Â2. Monthly Notices of the Royal Astronomical Society, 2017, 468, 3071-3108.	4.4	19

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37	Effect of Local Environment and Stellar Mass on Galaxy Quenching and Morphology at 0.5 < z < 2.0[*]. Astrophysical Journal, 2017, 847, 134.	4.5	106
38	ZFIRE: A KECK/MOSFIRE SPECTROSCOPIC SURVEY OF GALAXIES IN RICH ENVIRONMENTS AT z âˆ¼ 2. Astrophysical Journal, 2016, 828, 21.	4.5	53
39	THE BRIGHT END OF THE zÂâˆ¼Â9 AND zÂâˆ¼Â10 UV LUMINOSITY FUNCTIONS USING ALL FIVE CANDELS FIELDS^{âˆ—}. Astrophysical Journal, 2016, 830, 67.	4.5	110
40	DIFFERENCES IN THE STRUCTURAL PROPERTIES AND STAR FORMATION RATES OF FIELD AND CLUSTER GALAXIES AT Z âˆ¼ 1. Astrophysical Journal, 2016, 826, 60.	4.5	17
41	SATELLITE QUENCHING AND GALACTIC CONFORMITY AT 0.3 < z < 2.5*. Astrophysical Journal, 2016, 817, 9.	4.5	50
42	THE SFRâ€"M_* RELATION AND EMPIRICAL STAR FORMATION HISTORIES FROM ZFOURGE AT 0.5 < z < 4*. Astrophysical Journal, 2016, 817, 118.	4.5	241
43	ZFIRE: THE KINEMATICS OF STAR-FORMING GALAXIES AS A FUNCTION OF ENVIRONMENT AT z âˆ¼ 2. Astrophysical Journal Letters, 2016, 825, L2.	8.3	14
44	THE FOURSTAR GALAXY EVOLUTION SURVEY (ZFOURGE): ULTRAVIOLET TO FAR-INFRARED CATALOGS, MEDIUM-BANDWIDTH PHOTOMETRIC REDSHIFTS WITH IMPROVED ACCURACY, STELLAR MASSES, AND CONFIRMATION OF QUIESCENT GALAXIES TO zÂâˆ¼Â3.5*. Astrophysical Journal, 2016, 830, 51.	4.5	166
45	UV TO IR LUMINOSITIES AND DUST ATTENUATION DETERMINED FROM âˆ¼4000 K-SELECTED GALAXIES AT 1 < z < 3 IN THE ZFOURGE SURVEY*. Astrophysical Journal Letters, 2016, 818, L26.	8.3	27
46	ZFOURGE catalogue of AGN candidates: an enhancement of 160-Î¼m-derived star formation rates in active galaxies to<i>z</i>Â=Â3.2. Monthly Notices of the Royal Astronomical Society, 2016, 457, 629-641.	4.4	45
47	Z-FIRE: ISM PROPERTIES OF THE<i>z</i>= 2.095 COSMOS CLUSTER. Astrophysical Journal, 2016, 819, 100.	4.5	25
48	COLD-MODE ACCRETION: DRIVING THE FUNDAMENTAL MASSâ€"METALLICITY RELATION AT zÂâˆ¼Â2. Astrophysical Journal Letters, 2016, 826, L11.	8.3	45
49	THE ABSENCE OF AN ENVIRONMENTAL DEPENDENCE IN THE MASSâ€"METALLICITY RELATION AT <i>z</i> = 2. Astrophysical Journal Letters, 2015, 802, L26.	8.3	58
50	THE SIZES OF MASSIVE QUIESCENT AND STAR-FORMING GALAXIES AT <i>z</i> âˆ¼ 4 WITH ZFOURGE AND CANDELS. Astrophysical Journal Letters, 2015, 808, L29.	8.3	64
51	ZFIRE: GALAXY CLUSTER KINEMATICS, H<i>Î±</i>STAR FORMATION RATES, AND GAS PHASE METALLICITIES OF XMM-LSS J02182-05102 AT ${z}_{mathrm{cl}}=1.6233$. Astrophysical Journal, 2015, 811, 28.	4.5	54
52	THE DIFFERENTIAL SIZE GROWTH OF FIELD AND CLUSTER GALAXIES AT<i>z</i>= 2.1 USING THE ZFOURGE SURVEY. Astrophysical Journal, 2015, 806, 3.	4.5	31
53	KECK/MOSFIRE SPECTROSCOPIC CONFIRMATION OF A VIRGO-LIKE CLUSTER ANCESTOR AT <i>z</i> = 2.095. Astrophysical Journal Letters, 2014, 795, L20.	8.3	63
54	THE DISTRIBUTION OF SATELLITES AROUND MASSIVE GALAXIES AT 1 <<i>z</i>< 3 IN ZFOURGE/CANDELS: DEPENDENCE ON STAR FORMATION ACTIVITY. Astrophysical Journal, 2014, 792, 103.	4.5	24

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55	GALAXY STELLAR MASS FUNCTIONS FROM ZFOURGE/CANDELS: AN EXCESS OF LOW-MASS GALAXIES SINCE<i>z</i>= 2 AND THE RAPID BUILDUP OF QUIESCENT GALAXIES. Astrophysical Journal, 2014, 783, 85.	4.5	350
56	EXPLORING THE <i>z</i> = 3-4 MASSIVE GALAXY POPULATION WITH ZFOURGE: THE PREVALENCE OF DUSTY AND QUIESCENT GALAXIES. Astrophysical Journal Letters, 2014, 787, L36.	8.3	80
57	A SUBSTANTIAL POPULATION OF MASSIVE QUIESCENT GALAXIES AT <i>z</i> âˆ¼ 4 FROM ZFOURGE. Astrophysical Journal Letters, 2014, 783, L14.	8.3	171
58	FIRST RESULTS FROM <i>Z</i> â€“FOURGE: DISCOVERY OF A CANDIDATE CLUSTER AT <i>z</i> = 2.2 IN COSMOS. Astrophysical Journal Letters, 2012, 748, L21.	8.3	104