

# Caroline M S Straatman

## List of Publications by Year in descending order

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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	GALAXY STELLAR MASS FUNCTIONS FROM ZFOURGE/CANDELS: AN EXCESS OF LOW-MASS GALAXIES SINCE $\langle i \rangle_z = 2$ AND THE RAPID BUILDUP OF QUIESCENT GALAXIES. <i>Astrophysical Journal</i> , 2014, 783, 85.	4.5	350
2	THE SFR $M_{\text{star}}$ RELATION AND EMPIRICAL STAR FORMATION HISTORIES FROM ZFOURGE AT $0.5 < z < 4$ . <i>Astrophysical Journal</i> , 2016, 817, 118.	4.5	241
3	A SUBSTANTIAL POPULATION OF MASSIVE QUIESCENT GALAXIES AT $z \sim 4$ FROM ZFOURGE. <i>Astrophysical Journal Letters</i> , 2014, 783, L14.	8.3	171
4	A massive, quiescent galaxy at a redshift of 3.717. <i>Nature</i> , 2017, 544, 71-74.	27.8	167
5	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 $z \sim 3.5$ . <i>Astrophysical Journal</i> , 2016, 830, 51.	4.5	166
6	THE BRIGHT END OF THE $z \sim 9$ AND $z \sim 10$ UV LUMINOSITY FUNCTIONS USING ALL FIVE CANDELS FIELDS. <i>Astrophysical Journal</i> , 2016, 830, 67.	4.5	110
7	Effect of Local Environment and Stellar Mass on Galaxy Quenching and Morphology at $0.5 < z < 2.0$ . <i>Astrophysical Journal</i> , 2017, 847, 134.	4.5	106
8	FIRST RESULTS FROM ZFOURGE: DISCOVERY OF A CANDIDATE CLUSTER AT $z = 2.2$ IN COSMOS. <i>Astrophysical Journal Letters</i> , 2012, 748, L21.	8.3	104
9	EXPLORING THE $z = 3-4$ MASSIVE GALAXY POPULATION WITH ZFOURGE: THE PREVALENCE OF DUSTY AND QUIESCENT GALAXIES. <i>Astrophysical Journal Letters</i> , 2014, 787, L36.	8.3	80
10	The Large Early Galaxy Astrophysics Census (LEGA-C) Data Release 2: Dynamical and Stellar Population Properties of $z \sim 1$ Galaxies in the COSMOS Field. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 27.	7.7	74
11	Fast and Slow Paths to Quiescence: Ages and Sizes of 400 Quiescent Galaxies from the LEGA-C Survey. <i>Astrophysical Journal</i> , 2018, 868, 37.	4.5	72
12	THE SIZES OF MASSIVE QUIESCENT AND STAR-FORMING GALAXIES AT $z \sim 4$ WITH ZFOURGE AND CANDELS. <i>Astrophysical Journal Letters</i> , 2015, 808, L29.	8.3	64
13	KECK/MOSFIRE SPECTROSCOPIC CONFIRMATION OF A VIRGO-LIKE CLUSTER ANCESTOR AT $z = 2.095$ . <i>Astrophysical Journal Letters</i> , 2014, 795, L20.	8.3	63
14	THE ABSENCE OF AN ENVIRONMENTAL DEPENDENCE IN THE MASS-METALLICITY RELATION AT $z = 2$ . <i>Astrophysical Journal Letters</i> , 2015, 802, L26.	8.3	58
15	The Size Evolution of Star-forming Galaxies since $z \sim 7$ Using ZFOURGE. <i>Astrophysical Journal Letters</i> , 2017, 834, L11.	8.3	57
16	The Effects of Environment on the Evolution of the Galaxy Stellar Mass Function. <i>Astrophysical Journal</i> , 2018, 854, 30.	4.5	55
17	ZFIRE: GALAXY CLUSTER KINEMATICS, $H_{\text{star}}$ STAR FORMATION RATES, AND GAS PHASE METALLICITIES OF XMM-LSS J02182-05102 AT $z_{\text{cl}} = 1.6233$ . <i>Astrophysical Journal</i> , 2015, 811, 28.	4.5	54
18	ZFIRE: A KECK/MOSFIRE SPECTROSCOPIC SURVEY OF GALAXIES IN RICH ENVIRONMENTS AT $z \sim 2$ . <i>Astrophysical Journal</i> , 2016, 828, 21.	4.5	53

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19	Spatially Resolved Stellar Kinematics from LEGA-C: Increased Rotational Support in $z \sim 0.8$ Quiescent Galaxies. <i>Astrophysical Journal</i> , 2018, 858, 60.	4.5	52
20	The Large Early Galaxy Astrophysics Census (LEGA-C) Data Release 3: 3000 High-quality Spectra of K-selected Galaxies at $z < 0.6$ . <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 44.	7.7	52
21	SATELLITE QUENCHING AND GALACTIC CONFORMITY AT $0.3 < z < 2.5^*$ . <i>Astrophysical Journal</i> , 2016, 817, 9.	4.5	50
22	Molecular Gas Contents and Scaling Relations for Massive, Passive Galaxies at Intermediate Redshifts from the LEGA-C Survey. <i>Astrophysical Journal</i> , 2018, 860, 103.	4.5	48
23	ZFOURGE catalogue of AGN candidates: an enhancement of 160- $\mu$ m-derived star formation rates in active galaxies to $z \sim 3.2$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 629-641.	4.4	45
24	Stellar Populations of over 1000 $z \sim 0.8$ Galaxies from LEGA-C: Ages and Star Formation Histories from $D_n4000$ and $H\beta$ . <i>Astrophysical Journal</i> , 2018, 855, 85.	4.5	45
25	COLD-MODE ACCRETION: DRIVING THE FUNDAMENTAL MASS-METALLICITY RELATION AT $z \sim 2$ . <i>Astrophysical Journal Letters</i> , 2016, 826, L11.	8.3	45
26	Rejuvenation in $z \sim 0.8$ Quiescent Galaxies in LEGA-C. <i>Astrophysical Journal</i> , 2019, 877, 48.	4.5	41
27	Star Formation Histories of $z \sim 1$ Galaxies in LEGA-C. <i>Astrophysical Journal</i> , 2018, 861, 13.	4.5	36
28	The Colors and Sizes of Recently Quenched Galaxies: A Result of Compact Starburst before Quenching. <i>Astrophysical Journal</i> , 2020, 888, 77.	4.5	36
29	Discovery of Extreme $[O\ III]+H\beta^2$ Emitting Galaxies Tracing an Overdensity at $z \sim 3.5$ in CDF-South. <i>Astrophysical Journal Letters</i> , 2017, 838, L12.	8.3	32
30	THE DIFFERENTIAL SIZE GROWTH OF FIELD AND CLUSTER GALAXIES AT $z = 2.1$ USING THE ZFOURGE SURVEY. <i>Astrophysical Journal</i> , 2015, 806, 3.	4.5	31
31	UV TO IR LUMINOSITIES AND DUST ATTENUATION DETERMINED FROM $z \sim 4000$ K-SELECTED GALAXIES AT $1 < z < 3$ IN THE ZFOURGE SURVEY*. <i>Astrophysical Journal Letters</i> , 2016, 818, L26.	8.3	27
32	ZFIRE: The Evolution of the Stellar Mass Tully-Fisher Relation to Redshift $z \sim 2.2$ . <i>Astrophysical Journal</i> , 2017, 839, 57.	4.5	26
33	Stellar Dynamics and Star Formation Histories of $z \sim 1$ Radio-loud Galaxies. <i>Astrophysical Journal</i> , 2017, 847, 72.	4.5	26
34	Z-FIRE: ISM PROPERTIES OF THE $z = 2.095$ COSMOS CLUSTER. <i>Astrophysical Journal</i> , 2016, 819, 100.	4.5	25
35	THE DISTRIBUTION OF SATELLITES AROUND MASSIVE GALAXIES AT $1 < z < 3$ IN ZFOURGE/CANDELS: DEPENDENCE ON STAR FORMATION ACTIVITY. <i>Astrophysical Journal</i> , 2014, 792, 103.	4.5	24
36	ZFOURGE: Using Composite Spectral Energy Distributions to Characterize Galaxy Populations at $1 < z < 4$ . <i>Astrophysical Journal</i> , 2018, 863, 131.	4.5	24

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37	1D Kinematics from Stars and Ionized Gas at $z \sim 0.8$ from the LEGA-C Spectroscopic Survey of Massive Galaxies. <i>Astrophysical Journal Letters</i> , 2018, 868, L36.	8.3	24
38	Inverse stellar population age gradients of post-starburst galaxies at $z = 0.8$ with LEGA-C. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 389-404.	4.4	22
39	ZFIRE: using $H\beta$ equivalent widths to investigate the in situ initial mass function at $z \sim 2$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 3071-3108.	4.4	19
40	The Fundamental Plane in the LEGA-C Survey: Unraveling the M/L Ratio Variations of Massive Star-forming and Quiescent Galaxies at $z \sim 0.8$ . <i>Astrophysical Journal</i> , 2021, 913, 103.	4.5	19
41	DIFFERENCES IN THE STRUCTURAL PROPERTIES AND STAR FORMATION RATES OF FIELD AND CLUSTER GALAXIES AT $z \sim 1$ . <i>Astrophysical Journal</i> , 2016, 826, 60.	4.5	17
42	ZFIRE: 3D Modeling of Rotation, Dispersion, and Angular Momentum of Star-forming Galaxies at $z \sim 2$ . <i>Astrophysical Journal</i> , 2018, 858, 47.	4.5	16
43	MOSEL: Strong $[O\text{iii}] \ 5007 \text{ \AA}$ -Emitting Galaxies at ( $3 < z < 4$ ) from the ZFOURGE Survey. <i>Astrophysical Journal</i> , 2020, 898, 45.	4.5	16
44	Consistent Dynamical and Stellar Masses with Potential Light IMF in Massive Quiescent Galaxies at $3 < z < 4$ Using Velocity Dispersions Measurements with MOSFIRE. <i>Astrophysical Journal Letters</i> , 2021, 908, L35.	8.3	16
45	ZFIRE: THE KINEMATICS OF STAR-FORMING GALAXIES AS A FUNCTION OF ENVIRONMENT AT $z \sim 2$ . <i>Astrophysical Journal Letters</i> , 2016, 825, L2.	8.3	14
46	ZFIRE: SIMILAR STELLAR GROWTH IN $H\beta$ -EMITTING CLUSTER AND FIELD GALAXIES AT $z \sim 2$ . <i>Astrophysical Journal</i> , 2017, 834, 101.	4.5	14
47	Reconstructing the Observed Ionizing Photon Production Efficiency at $z \sim 2$ Using Stellar Population Models. <i>Astrophysical Journal</i> , 2020, 889, 180.	4.5	14
48	Stellar Kinematics and Environment at $z \sim 0.8$ in the LEGA-C Survey: Massive Slow Rotators Are Built First in Overdense Environments. <i>Astrophysical Journal Letters</i> , 2020, 890, L25.	8.3	12
49	Stellar Dynamical Models for 797 $z \sim 0.8$ Galaxies from LEGA-C. <i>Astrophysical Journal</i> , 2021, 923, 11.	4.5	11
50	A giant galaxy in the young Universe with a massive ring. <i>Nature Astronomy</i> , 2020, 4, 957-964.	10.1	9
51	Toward Precise Galaxy Evolution: A Comparison between Spectral Indices of $z \sim 1$ Galaxies in the IllustrisTNG Simulation and the LEGA-C Survey. <i>Astronomical Journal</i> , 2021, 162, 201.	4.7	9
52	A Tale of Two Clusters: An Analysis of Gas-phase Metallicity and Nebular Gas Conditions in Proto-cluster Galaxies at $z \sim 2$ . <i>Astrophysical Journal</i> , 2019, 883, 153.	4.5	8
53	Tightly Coupled Morpho-kinematic Evolution for Massive Star-forming and Quiescent Galaxies across 7 Gyr of Cosmic Time. <i>Astrophysical Journal Letters</i> , 2020, 903, L30.	8.3	8
54	Ubiquitous $[O\text{ii}]$ Emission in Quiescent Galaxies at $z \sim 0.85$ from the LEGA-C Survey*. <i>Astrophysical Journal</i> , 2021, 923, 18.	4.5	8

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55	The LEGA-C of Nature and Nurture in Stellar Populations at $z \approx 0.6-1.0$ : $D_n < 4000$ and $H\alpha$ Reveal Different Assembly Histories for Quiescent Galaxies in Different Environments. <i>Astrophysical Journal</i> , 2022, 926, 117.	4.5	8
56	Dust Attenuation Curves at $z \approx 0.8$ from LEGA-C: Precise Constraints on the Slope and $2175\text{\AA}$ Bump Strength. <i>Astrophysical Journal</i> , 2020, 903, 146.	4.5	7
57	Introducing the FLAMINGOS-2 Split-K Medium-band Filters: The Impact on Photometric Selection of High- $z$ Galaxies in the FENIKS-pilot survey. <i>Astronomical Journal</i> , 2021, 162, 225.	4.7	5
58	LEGA-C: Analysis of Dynamical Masses from Ionized Gas and Stellar Kinematics at $z \approx 0.8$ . <i>Astrophysical Journal</i> , 2022, 928, 126.	4.5	2