

# Sebastiano Cantalupo

## List of Publications by Year in descending order

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100  
papers

5,230  
citations

76196

40  
h-index

91712

69  
g-index

102  
all docs

102  
docs citations

102  
times ranked

2469  
citing authors

#	ARTICLE	IF	CITATIONS
1	A cosmic web filament revealed in Lyman- $\alpha$ emission around a luminous high-redshift quasar. <i>Nature</i> , 2014, 506, 63-66.	13.7	284
2	The MUSE <i>Hubble Ultra Deep Field</i> Survey. <i>Astronomy and Astrophysics</i> , 2017, 608, A1.	2.1	236
3	Extended Lyman- $\alpha$ haloes around individual high-redshift galaxies revealed by MUSE. <i>Astronomy and Astrophysics</i> , 2016, 587, A98.	2.1	219
4	UBIQUITOUS GIANT Ly $\alpha$ NEBULAE AROUND THE BRIGHTEST QUASARS AT $z \sim 3.5$ REVEALED WITH MUSE. <i>Astrophysical Journal</i> , 2016, 831, 39.	1.6	201
5	Quasar quartet embedded in giant nebula reveals rare massive structure in distant universe. <i>Science</i> , 2015, 348, 779-783.	6.0	187
6	The MUSE <i>Hubble Ultra Deep Field</i> Survey. <i>Astronomy and Astrophysics</i> , 2017, 608, A8.	2.1	167
7	Fluorescent Ly $\alpha$ Emission from the High-Redshift Intergalactic Medium. <i>Astrophysical Journal</i> , 2005, 628, 61-75.	1.6	163
8	The MUSE 3D view of the <i>Hubble Deep Field South</i> . <i>Astronomy and Astrophysics</i> , 2015, 575, A75.	2.1	162
9	THE COS-HALOS SURVEY: ORIGINS OF THE HIGHLY IONIZED CIRCUMGALACTIC MEDIUM OF STAR-FORMING GALAXIES. <i>Astrophysical Journal</i> , 2016, 833, 54.	1.6	141
10	QUASARS PROBING QUASARS. VI. EXCESS H I ABSORPTION WITHIN ONE PROPER Mpc OF $z \sim 2$ QUASARS. <i>Astrophysical Journal</i> , 2013, 776, 136.	1.6	120
11	Discovery of an Enormous Ly $\alpha$ Nebula in a Massive Galaxy Overdensity at $z \sim 2.3$ . <i>Astrophysical Journal</i> , 2017, 837, 71.	1.6	111
12	Detection of dark galaxies and circum-galactic filaments fluorescently illuminated by a quasar at $z = 2.4$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 1992-2014.	1.6	109
13	Nearly all the sky is covered by Lyman- $\alpha$ emission around high-redshift galaxies. <i>Nature</i> , 2018, 562, 229-232.	13.7	108
14	QSO MUSEUM I: a sample of 61 extended Ly $\alpha$ -emission nebulae surrounding $z \sim 3$ quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 3162-3205.	1.6	106
15	Gas filaments of the cosmic web located around active galaxies in a protocluster. <i>Science</i> , 2019, 366, 97-100.	6.0	100
16	Recovering the systemic redshift of galaxies from their Lyman alpha line profile. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 478, L60-L65.	1.2	84
17	POSSIBLE SIGNATURES OF A COLD-FLOW DISK FROM MUSE USING A $z \sim 1$ GALAXY QUASAR PAIR TOWARD SDSS J1422 $\alpha$ 0001*. <i>Astrophysical Journal</i> , 2016, 820, 121.	1.6	83
18	Inspiraling halo accretion mapped in Ly $\alpha$ emission around a $z \sim 3$ quasar. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 3907-3940.	1.6	79

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19	The large- and small-scale properties of the intergalactic gas in the Slug Ly $\alpha$ nebula revealed by MUSE He II emission observations. Monthly Notices of the Royal Astronomical Society, 2019, 483, 5188-5204.	1.6	78
20	Evolution of the Cool Gas in the Circumgalactic Medium of Massive Halos: A Keck Cosmic Web Imager Survey of Ly $\alpha$ Emission around QSOs at $z \sim 2$ . Astrophysical Journal, Supplement Series, 2019, 245, 23.	3.0	76
21	MUSE GAS FLOW AND WIND (MEGAFLOW). I. FIRST MUSE RESULTS ON BACKGROUND QUASARS*. Astrophysical Journal, 2016, 833, 39.	1.6	72
22	Stars quenching stars: how photoionization by local sources regulates gas cooling and galaxy formation. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 403, L16-L20.	1.2	70
23	A giant protogalactic disk linked to the cosmic web. Nature, 2015, 524, 192-195.	13.7	70
24	A young star-forming galaxy at $z = 3.5$ with an extended Ly $\alpha$ halo seen with MUSE. Monthly Notices of the Royal Astronomical Society, 2016, 456, 4191-4208.	1.6	70
25	MUSE searches for galaxies near very metal-poor gas clouds at $z \sim 3$ : new constraints for cold accretion models. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1978-1988.	1.6	66
26	The imprint of inhomogeneous He II reionization on the H $\alpha$ and He II Ly $\alpha$ forest. Monthly Notices of the Royal Astronomical Society, 2013, 435, 3169-3190.	1.6	64
27	DEEP HE II AND C IV SPECTROSCOPY OF A GIANT LY $\alpha$ NEBULA: DENSE COMPACT GAS CLUMPS IN THE CIRCUMGALACTIC MEDIUM OF A $z \sim 2$ QUASAR. Astrophysical Journal, 2015, 809, 163.	1.6	64
28	Mapping Neutral Hydrogen during Reionization with the Ly $\alpha$ Emission from Quasar Ionization Fronts. Astrophysical Journal, 2008, 672, 48-58.	1.6	63
29	The MUSE Hubble Ultra Deep Field Survey. Astronomy and Astrophysics, 2017, 608, A10.	2.1	63
30	THE STACKED LY $\alpha$ EMISSION PROFILE FROM THE CIRCUM-GALACTIC MEDIUM OF $z \sim 2$ QUASARS*. Astrophysical Journal, 2016, 829, 3.	1.6	51
31	The MUSE Hubble Ultra Deep Field Survey. Astronomy and Astrophysics, 2020, 635, A82.	2.1	50
32	Probing the intra-group medium of a $z \sim 0.28$ galaxy group. Monthly Notices of the Royal Astronomical Society, 2017, 468, 1373-1386.	1.6	47
33	MUSE Analysis of Gas around Galaxies (MAGG) II: metal-enriched halo gas around $z \sim 1$ galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5022-5046.	1.6	47
34	Galaxy formation with local photoionization feedback I. Methods. Monthly Notices of the Royal Astronomical Society, 2014, 437, 2882-2893.	1.6	45
35	Elevated ionizing photon production efficiency in faint high-equivalent-width Ly $\alpha$ emitters. Monthly Notices of the Royal Astronomical Society, 2020, 493, 5120-5130.	1.6	45
36	MUSEQuBES: calibrating the redshifts of Ly $\alpha$ emitters using stacked circumgalactic medium absorption profiles. Monthly Notices of the Royal Astronomical Society, 2020, 496, 1013-1022.	1.6	44

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37	Mapping the Ly $\alpha$ Emission around a z $\approx$ 6.6 QSO with MUSE: Extended Emission and a Companion at a Close Separation. <i>Astrophysical Journal</i> , 2017, 848, 78.	1.6	43
38	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.	1.6	43
39	Exploring He II $\lambda$ 1640 emission line properties at z $\approx$ 4. <i>Astronomy and Astrophysics</i> , 2019, 624, A89.	2.1	43
40	Witnessing galaxy assembly in an extended z $\approx$ 3 structure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 3686-3698.	1.6	41
41	Keck/Palomar Cosmic Web Imagers Reveal an Enormous Ly $\alpha$ Nebula in an Extremely Overdense Quasi-stellar Object Pair Field at z $\approx$ 2.45. <i>Astrophysical Journal Letters</i> , 2018, 861, L3.	3.0	41
42	MUSE analysis of gas around galaxies (MAGG) $\alpha$ III. The gas and galaxy environment of z $\approx$ 3-4.5 quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 3044-3064.	1.6	40
43	A measurement of the z $\approx$ 0 UV background from H $\alpha$ fluorescence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 4802-4816.	1.6	39
44	Galaxy and Quasar Fueling Caught in the Act from the Intragroup to the Interstellar Medium. <i>Astrophysical Journal Letters</i> , 2018, 869, L1.	3.0	39
45	Probing the end of reionization with the near zones of z $\approx$ 6 QSOs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 681-697.	1.6	38
46	MUSE deep-fields: the Ly $\alpha$ luminosity function in the Hubble Deep Field-South at z $\approx$ 2.91 & z $\approx$ 6.64. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 267-278.	1.6	38
47	The MUSE Ultra Deep Field (MUDF). II. Survey design and the gaseous properties of galaxy groups at z $\approx$ 0.5 & z $\approx$ 1.5. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 1451-1469.	1.6	38
48	Dark Galaxy Candidates at Redshift z $\approx$ 3.5 Detected with MUSE*. <i>Astrophysical Journal</i> , 2018, 859, 53.	1.6	37
49	The Cosmic Ultraviolet Baryon Survey (CUBS) $\alpha$ I. Overview and the diverse environments of Lyman limit systems at z $\approx$ 1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 498-520.	1.6	37
50	Plausible Fluorescent Ly $\alpha$ Emitters around the z=3.1 QSO 0420 $\alpha$ 388. <i>Astrophysical Journal</i> , 2007, 657, 135-144.	1.6	36
51	MUSE Analysis of Gas around Galaxies (MAGG) $\alpha$ I: Survey design and the environment of a near pristine gas cloud at z $\approx$ 3.5. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 2057-2074.	1.6	36
52	radamesh: cosmological radiative transfer for Adaptive Mesh Refinement simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 411, 1678-1694.	1.6	35
53	MUSE GAs FLOW and Wind (MEGAFLOW) VIII. Discovery of a Mg emission halo probed by a quasar sightline. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 4294-4315.	1.6	35
54	MUSE Spectroscopic Identifications of Ultra-faint Emission Line Galaxies with M <sub>UV</sub> $\approx$ 15 <sup>*</sup> . <i>Astrophysical Journal Letters</i> , 2018, 865, L1.	3.0	34

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55	Multi-filament gas inflows fuelling young star-forming galaxies. <i>Nature Astronomy</i> , 2019, 3, 822-831.	4.2	34
56	No excess of bright galaxies around the redshift 7.1 quasar ULAS J1120+0641. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 3454-3461.	1.6	33
57	Linking gas and galaxies at high redshift: MUSE surveys the environments of six damped Ly $\alpha$ systems at $z \sim 3$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 5070-5096.	1.6	33
58	The MUSE-Wide survey: a measurement of the Ly $\alpha$ emitting fraction among $z \sim 3$ galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 30-37.	1.6	32
59	Galactic winds with MUSE: A direct detection of Fe $\alpha$ emission from a $z = 1.29$ galaxy. <i>Astronomy and Astrophysics</i> , 2017, 605, A118.	2.1	31
60	Ionised gas structure of 100 kpc in an over-dense region of the galaxy group COSMOS-Gr30 at $z \sim 0.7$ . <i>Astronomy and Astrophysics</i> , 2018, 609, A40.	2.1	30
61	Stacking the Cosmic Web in fluorescent Ly $\alpha$ emission with MUSE. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 3854-3869.	1.6	30
62	Metal-enriched halo gas across galaxy overdensities over the last 10 billion years. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 4573-4599.	1.6	30
63	The MUSE Hubble Ultra Deep Field Survey. <i>Astronomy and Astrophysics</i> , 2020, 641, A118.	2.1	28
64	AGN-driven helium reionization and the incidence of extended He $\alpha$ regions at redshift $z \sim 3$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 4186-4196.	1.6	27
65	CONSTRAINING THE LIFETIME AND OPENING ANGLE OF QUASARS USING FLUORESCENT Ly $\alpha$ EMISSION: THE CASE OF Q0420+388. <i>Astrophysical Journal</i> , 2016, 830, 120.	1.6	27
66	MUSE observations of the lensing cluster Abell 1689. <i>Astronomy and Astrophysics</i> , 2016, 590, A14.	2.1	27
67	Extended and broad Ly $\alpha$ emission around a BAL quasar at $z \sim 5$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 2421-2431.	1.6	26
68	The WISSH quasars project. <i>Astronomy and Astrophysics</i> , 2020, 635, A157.	2.1	25
69	The Cosmic Ultraviolet Baryon Survey (CUBS) – III. Physical properties and elemental abundances of Lyman-limit systems at $z < 1$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 877-902.	1.6	24
70	Gas Accretion and Giant Ly $\alpha$ Nebulae. <i>Astrophysics and Space Science Library</i> , 2017, , 195-220.	1.0	20
71	The MUSE Ultra Deep Field (MUDF) – I. Discovery of a group of Ly $\alpha$ nebulae associated with a bright $z \sim 3.23$ quasar pair. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 485, L62-L67.	1.2	18
72	Revealing the impact of quasar luminosity on giant Ly $\alpha$ nebulae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 494-509.	1.6	18

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73	The detection of intergalactic H $\alpha$ emission from the Slug Nebula at $z \approx 2.3$ . Monthly Notices of the Royal Astronomical Society, 2018, 480, 2094-2108.	1.6	17
74	Into the Ly $\alpha$ jungle: exploring the circumgalactic medium of galaxies at $z \approx 4$ with MUSE. Monthly Notices of the Royal Astronomical Society, 2020, 493, 5336-5356.	1.6	17
75	MUSEQuBES: characterizing the circumgalactic medium of redshift $z \approx 3.3$ Ly $\alpha$ emitters. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5612-5637.	1.6	17
76	Characterizing circumgalactic gas around massive ellipticals at $z \approx 0.4$ III. The galactic environment of a chemically pristine Lyman limit absorber. Monthly Notices of the Royal Astronomical Society, 2019, 484, 431-441.	1.6	16
77	Probing the AGN unification model at redshift $z \approx 3$ with MUSE observations of giant Ly $\alpha$ nebulae. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1874-1887.	1.6	16
78	Resolved Lyman- $\alpha$ properties of a luminous Lyman-break galaxy in a large ionized bubble at $z \approx 6.53$ . Monthly Notices of the Royal Astronomical Society, 2020, 492, 1778-1790.	1.6	16
79	A Giant Ly $\alpha$ Nebula and a Small-scale Clumpy Outflow in the System of the Exotic Quasar J0952+0114 Unveiled by MUSE. Astrophysical Journal, 2019, 880, 47.	1.6	15
80	MUSE-inspired view of the quasar Q2059-360, its Lyman $\alpha$ blob, and its neighborhood. Astronomy and Astrophysics, 2017, 604, A23.	2.1	14
81	The Cosmic Ultraviolet Baryon Survey (CUBS) IV. The complex multiphase circumgalactic medium as revealed by partial Lyman limit systems. Monthly Notices of the Royal Astronomical Society, 2021, 508, 4359-4384.	1.6	14
82	BASS. XXVIII. Near-infrared Data Release 2: High-ionization and Broad Lines in Active Galactic Nuclei*. Astrophysical Journal, Supplement Series, 2022, 261, 7.	3.0	13
83	Properties and redshift evolution of star-forming galaxies with high $[\text{O III}]/[\text{O II}]$ ratios with MUSE at $0.28 < z < 0.85$ . Astronomy and Astrophysics, 2018, 618, A40.	2.1	12
84	Three-dimensional Distribution Map of H I Gas and Galaxies around an Enormous Ly $\alpha$ Nebula and Three QSOs at $z \approx 2.3$ Revealed by the H I Tomographic Mapping Technique. Astrophysical Journal, 2020, 896, 45.	1.6	12
85	The MUSE-Wide survey: detection of a clustering signal from Lyman- $\alpha$ emitters in the range $3 \leq z \leq 6$ . Monthly Notices of the Royal Astronomical Society, 2017, 471, 3186-3192.	1.6	11
86	A high baryon fraction in massive haloes at $z \approx 3$ . Monthly Notices of the Royal Astronomical Society, 2019, 486, 1489-1508.	1.6	11
87	Discovery of a Ly $\alpha$ -emitting Dark Cloud within the $z \approx 2.8$ SMM J02399-0136 System. Astrophysical Journal, 2019, 875, 130.	1.6	11
88	The nature of CR7 revealed with MUSE: a young starburst powering extended Ly $\alpha$ emission at $z \approx 6.6$ . Monthly Notices of the Royal Astronomical Society, 2020, 498, 3043-3059.	1.6	11
89	The MUSE eXtremely deep field: first panoramic view of an Mg II emitting intragroup medium. Astronomy and Astrophysics, 2022, 663, A11.	2.1	11
90	Constraining the cosmic UV background at $z > 3$ with MUSE Lyman- $\alpha$ emission observations. Monthly Notices of the Royal Astronomical Society, 2021, 504, 16-32.	1.6	10

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91	A search for dust and molecular gas in enormous Ly $\alpha$ nebulae at $z \approx 2$ . <i>Astronomy and Astrophysics</i> , 2021, 645, L3.	2.1	10
92	The density distribution of accreting cosmic filaments as shaped by Kelvin-Helmholtz instability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 2130-2141.	1.6	9
93	The Cosmic Ultraviolet Baryon Survey (CUBS). II. Discovery of an H $\alpha$ -bearing DLA in the Vicinity of an Early-type Galaxy at $z = 0.576^*$ . <i>Astrophysical Journal</i> , 2021, 913, 18.	1.6	9
94	The relationship between gas and galaxies at $z < 1$ using the Q0107 quasar triplet. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 2574-2602.	1.6	8
95	Estimating the Contribution of Foreground Halos to the FRB 180924 Dispersion Measure. <i>Astrophysical Journal</i> , 2021, 921, 134.	1.6	7
96	MCMC determination of the cosmic UV background at $z \approx 0$ from H $\alpha$ fluorescence. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 2833-2837.	1.6	5
97	Tomography of the environment of the COSMOS/AzTEC-3 submillimeter galaxy at $z \approx 5.3$ revealed by Ly $\alpha$ and MUSE observations. <i>Astronomy and Astrophysics</i> , 2022, 660, A137.	2.1	3
98	MUSE searches for galaxies near very metal-poor gas clouds at $z \approx 3$ : new constraints for cold accretion models. , 0, .		1
99	Discovery of a Damped Ly $\alpha$ Absorber Originating in a Spectacular Interacting Dwarf Galaxy Pair at $z = 0.026$ . <i>Astrophysical Journal Letters</i> , 2022, 926, L33.	3.0	1
100	FLASHLIGHT: Fluorescent Lyman-Alpha Survey of cosmic Hydrogen illuminated by high-redshift quasars.. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 253-256.	0.0	0