

Stéphane Charlot

List of Publications by Year in descending order

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88
papers

28,893
citations

38660

50
h-index

53109

85
g-index

88
all docs

88
docs citations

88
times ranked

7722
citing authors

#	ARTICLE	IF	CITATIONS
1	Stellar population synthesis at the resolution of 2003. Monthly Notices of the Royal Astronomical Society, 2003, 344, 1000-1028.	1.6	8,115
2	The host galaxies of active galactic nuclei. Monthly Notices of the Royal Astronomical Society, 2003, 346, 1055-1077.	1.6	2,990
3	The Origin of the Mass-Metallicity Relation: Insights from 53,000 Star-forming Galaxies in the Sloan Digital Sky Survey. Astrophysical Journal, 2004, 613, 898-913.	1.6	2,784
4	Stellar masses and star formation histories for 105 galaxies from the Sloan Digital Sky Survey. Monthly Notices of the Royal Astronomical Society, 2003, 341, 33-53.	1.6	1,892
5	Spectral evolution of stellar populations using isochrone synthesis. Astrophysical Journal, 1993, 405, 538.	1.6	1,511
6	UV Star Formation Rates in the Local Universe. Astrophysical Journal, Supplement Series, 2007, 173, 267-292.	3.0	1,344
7	A Simple Model for the Absorption of Starlight by Dust in Galaxies. Astrophysical Journal, 2000, 539, 718-731.	1.6	1,222
8	A simple model to interpret the ultraviolet, optical and infrared emission from galaxies. Monthly Notices of the Royal Astronomical Society, 2008, 388, 1595-1617.	1.6	968
9	The ages and metallicities of galaxies in the local universe. Monthly Notices of the Royal Astronomical Society, 2005, 362, 41-58.	1.6	894
10	NEW CONSTRAINTS ON COSMIC REIONIZATION FROM THE 2012 HUBBLE ULTRA DEEP FIELD CAMPAIGN. Astrophysical Journal, 2013, 768, 71.	1.6	428
11	THE ABUNDANCE OF STAR-FORMING GALAXIES IN THE REDSHIFT RANGE 8.5-12: NEW RESULTS FROM THE 2012 HUBBLE ULTRA DEEP FIELD CAMPAIGN. Astrophysical Journal Letters, 2013, 763, L7.	3.0	397
12	Ages and metallicities of early-type galaxies in the Sloan Digital Sky Survey: new insight into the physical origin of the colour-magnitude and the Mg2-I _F V relations. Monthly Notices of the Royal Astronomical Society, 2006, 370, 1106-1124.	1.6	313
13	Lyman-Alpha Emission from Galaxies. Astrophysical Journal, 1993, 415, 580.	1.6	270
14	Ly α and C α emission in $z \approx 7$ Galaxies: accelerated reionization around luminous star-forming systems?. Monthly Notices of the Royal Astronomical Society, 2017, 464, 469-479.	1.6	264
15	GALEX-SDSS-WISE LEGACY CATALOG (GSWLC): STAR FORMATION RATES, STELLAR MASSES, AND DUST ATTENUATIONS OF 700,000 LOW-REDSHIFT GALAXIES. Astrophysical Journal, Supplement Series, 2016, 227, 2.	3.0	246
16	Modelling and interpreting spectral energy distributions of galaxies with beagle. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1415-1443.	1.6	246
17	Uncertainties in the Modeling of Old Stellar Populations. Astrophysical Journal, 1996, 457, 625.	1.6	217
18	Modelling the nebular emission from primeval to present-day star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1757-1774.	1.6	203

#	ARTICLE	IF	CITATIONS
19	New insights into the stellar content and physical conditions of star-forming galaxies at $z = 2-3$ from spectral modelling. Monthly Notices of the Royal Astronomical Society, 2008, 385, 769-782.	1.6	201
20	Stellar population synthesis revisited. Astrophysical Journal, 1991, 367, 126.	1.6	200
21	Spectroscopic detection of $\lambda 1548$ in a galaxy at $z = 7.045$: implications for the ionizing spectra of reionization-era galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1393-1403.	1.6	191
22	Ultraviolet emission lines in young low-mass galaxies at $z \approx 2$: physical properties and implications for studies at $z \approx 7$. Monthly Notices of the Royal Astronomical Society, 2014, 445, 3200-3220.	1.6	173
23	Empirical determination of the shape of dust attenuation curves in star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2011, 417, 1760-1786.	1.6	172
24	Post-starburst galaxies: more than just an interesting curiosity. Monthly Notices of the Royal Astronomical Society, 2009, 395, 144-159.	1.6	164
25	Bursty stellar populations and obscured active galactic nuclei in galaxy bulges. Monthly Notices of the Royal Astronomical Society, 2007, 381, 543-572.	1.6	160
26	New Constraints on the Star Formation Histories and Dust Attenuation of Galaxies in the Local Universe from GALEX. Astrophysical Journal, 2005, 619, L39-L42.	1.6	157
27	Spectroscopic detections of $\lambda 1909 \text{ Å}$... at $z \approx 6-7$: a new probe of early star-forming galaxies and cosmic reionization. Monthly Notices of the Royal Astronomical Society, 2015, 450, 1846-1855.	1.6	157
28	The cosmic evolution of metallicity from the SDSS fossil record. Monthly Notices of the Royal Astronomical Society, 2008, 391, 1117-1126.	1.6	147
29	ACTIVE GALACTIC NUCLEI EMISSION LINE DIAGNOSTICS AND THE MASS-METALLICITY RELATION UP TO REDSHIFT $z \approx 2$: THE IMPACT OF SELECTION EFFECTS AND EVOLUTION. Astrophysical Journal, 2014, 788, 88.	1.6	147
30	The Properties of Ultraviolet-luminous Galaxies at the Current Epoch. Astrophysical Journal, 2005, 619, L35-L38.	1.6	140
31	THE VLT LEGA-C SPECTROSCOPIC SURVEY: THE PHYSICS OF GALAXIES AT A LOOKBACK TIME OF 7 Gyr. Astrophysical Journal, Supplement Series, 2016, 223, 29.	3.0	133
32	MID-IR LUMINOSITIES AND UV/OPTICAL STAR FORMATION RATES AT $z \approx 1.4$. Astrophysical Journal, 2009, 700, 161-182.	1.6	131
33	Ultraviolet spectra of extreme nearby star-forming regions \hat{c} approaching a local reference sample for JWST. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2608-2632.	1.6	129
34	EVOLUTION OF THE SIZES OF GALAXIES OVER $7 < z < 12$ REVEALED BY THE 2012 HUBBLE ULTRA DEEP FIELD CAMPAIGN. Astrophysical Journal, 2013, 777, 155.	1.6	122
35	Relative merits of different types of rest-frame optical observations to constrain galaxy physical parameters. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2002-2024.	1.6	107
36	The JWST Extragalactic Mock Catalog: Modeling Galaxy Populations from the UV through the Near-IR over 13 Billion Years of Cosmic History. Astrophysical Journal, Supplement Series, 2018, 236, 33.	3.0	106

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37	The Diverse Properties of the Most Ultraviolet-Luminous Galaxies Discovered by <i>GALEX</i> . <i>Astrophysical Journal, Supplement Series</i> , 2007, 173, 441-456.	3.0	106
38	The $[O\text{III}]\lambda 5007/H\beta$ equivalent width distribution at $z \sim 7$: implications for the contribution of galaxies to reionization. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 5229-5248.	1.6	106
39	SILVERRUSH. V. Census of Ly α , $[O\text{III}]\lambda 5007$, $H\beta$, and $[C\text{II}]\lambda 158\text{ nm}$ Line Emission with $\sim 1/4$ 1000 LAEs at $z \sim 4.9$ Revealed with Subaru/HSC. <i>Astrophysical Journal</i> , 2018, 859, 84.	1.6	102
40	A CRITICAL LOOK AT THE MASS-METALLICITY-STAR FORMATION RATE RELATION IN THE LOCAL UNIVERSE. I. AN IMPROVED ANALYSIS FRAMEWORK AND CONFOUNDING SYSTEMATICS. <i>Astrophysical Journal</i> , 2014, 797, 126.	1.6	101
41	MMT/MMIRS spectroscopy of $z = 1.3 - 2.4$ extreme $[O\text{III}]\lambda 5007$ emitters: implications for galaxies in the reionization era. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 2572-2594.	1.6	100
42	SHARDS: AN OPTICAL SPECTRO-PHOTOMETRIC SURVEY OF DISTANT GALAXIES. <i>Astrophysical Journal</i> , 2013, 762, 46.	1.6	95
43	Ongoing Formation of Bulges and Black Holes in the Local Universe: New Insights from <i>GALEX</i> . <i>Astrophysical Journal, Supplement Series</i> , 2007, 173, 357-376.	3.0	93
44	Near-infrared spectroscopy of post-starburst galaxies: a limited impact of TP-AGB stars on galaxy spectral energy distributions.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 1479-1497.	1.6	87
45	Synthetic nebular emission from massive galaxies I: origin of the cosmic evolution of optical emission-line ratios. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 2468-2495.	1.6	69
46	THE RISE AND FALL OF THE STAR FORMATION HISTORIES OF BLUE GALAXIES AT REDSHIFTS 0.2 < z < 1.4. <i>Astrophysical Journal Letters</i> , 2013, 762, L15.	3.0	68
47	GASP. III. JO36: A Case of Multiple Environmental Effects at Play?. <i>Astrophysical Journal</i> , 2017, 848, 132.	1.6	66
48	On the importance of using appropriate spectral models to derive physical properties of galaxies at $0.7 < z < 2.8$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 786-805.	1.6	61
49	Physical properties and H-ionizing-photon production rates of extreme nearby star-forming regions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 3264-3273.	1.6	61
50	Extremely metal-poor galaxies with HST/COS: laboratories for models of low-metallicity massive stars and high-redshift galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 3492-3506.	1.6	54
51	Early Low-mass Galaxies and Star-cluster Candidates at $z \sim 4.6 - 9$ Identified by the Gravitational-lensing Technique and Deep Optical/Near-infrared Imaging. <i>Astrophysical Journal</i> , 2020, 893, 60.	1.6	50
52	MMT spectroscopy of Lyman-alpha at $z \sim 7$: evidence for accelerated reionization around massive galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 6044-6063.	1.6	50
53	Synthetic nebular emission from massive galaxies II. Ultraviolet-line diagnostics of dominant ionizing sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 333-353.	1.6	45
54	High-mass X-ray binaries in nearby metal-poor galaxies: on the contribution to nebular He II emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 941-957.	1.6	44

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55	The Near-Infrared Spectrograph (NIRSpec) on the James Webb Space Telescope. <i>Astronomy and Astrophysics</i> , 2022, 661, A82.	2.1	39
56	Rest-frame UV spectroscopy of extreme [O III] emitters at $1.3 < z < 3.7$: toward a high-redshift UV reference sample for JWST. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3238-3257.	1.6	34
57	The MUSE Hubble Ultra Deep Field Survey. <i>Astronomy and Astrophysics</i> , 2018, 617, A62.	2.1	30
58	Simulating and interpreting deep observations in the Hubble Ultra Deep Field with the JWST/NIRSpec low-resolution $\tilde{\text{prism}}^{\text{TM}}$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 2621-2640.	1.6	29
59	CLASSY III. The Properties of Starburst-driven Warm Ionized Outflows*. <i>Astrophysical Journal</i> , 2022, 933, 222.	1.6	28
60	Ultraviolet spectra of extreme nearby star-forming regions: Evidence for an overabundance of very massive stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 6112-6135.	1.6	27
61	To use or not to use synthetic stellar spectra in population synthesis models?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 2025-2042.	1.6	26
62	How robustly can we constrain the low-mass end of the $z \sim 6$ stellar mass function? The limits of lensing models and stellar population assumptions in the Hubble Frontier Fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 1568-1590.	1.6	26
63	Tracers of stellar mass loss - I. Optical and near-IR colours and surface brightness fluctuations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 403, 1213-1238.	1.6	25
64	THE STELLAR INITIAL MASS FUNCTION AT $0.9 < z < 1.5$. <i>Astrophysical Journal Letters</i> , 2015, 798, L4.	3.0	23
65	Post-starburst Galaxies in the Centers of Intermediate-redshift Clusters. <i>Astrophysical Journal</i> , 2022, 930, 43.	1.6	22
66	Stars and gas in the most metal-poor galaxies. I. COS and MUSE observations of SBS 0335-052E. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 2908-2927.	1.6	20
67	Direct Constraints on the Extremely Metal-poor Massive Stars Underlying Nebular C IV Emission from Ultra-deep HST/COS Ultraviolet Spectroscopy. <i>Astrophysical Journal</i> , 2022, 930, 105.	1.6	19
68	RELICS: spectroscopy of gravitationally lensed $z \sim 2$ reionization-era analogues and implications for C III detections at $z > 6$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 719-735.	1.6	18
69	The Distribution and Ages of Star Clusters in the Small Magellanic Cloud: Constraints on the Interaction History of the Magellanic Clouds. <i>Astrophysical Journal</i> , 2018, 853, 104.	1.6	17
70	SHARDS: A GLOBAL VIEW OF THE STAR FORMATION ACTIVITY AT $z \sim 0.84$ and $z \sim 1.23$. <i>Astrophysical Journal</i> , 2015, 812, 155.	1.6	16
71	A Novel Method to Automatically Detect and Measure the Ages of Star Clusters in Nearby Galaxies: Application to the Large Magellanic Cloud. <i>Astrophysical Journal</i> , 2017, 845, 56.	1.6	13
72	The ionizing properties of two bright Ly α emitters in the Bremer Deep Field reionized bubble at $z = 7$. <i>Astronomy and Astrophysics</i> , 2022, 662, A115.	2.1	12

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73	A Two-dimensional Spectroscopic Study of Emission-line Galaxies in the Faint Infrared Grism Survey (FIGS). I. Detection Method and Catalog. <i>Astrophysical Journal</i> , 2018, 868, 61.	1.6	11
74	Detection of the self-regulation of star formation in galaxy discs. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 487, L61-L66.	1.2	9
75	Synthetic photometry of OB star clusters with stochastically sampled IMFs: analysis of models and <i>HST</i> observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 522-549.	1.6	8
76	Investigating Clumpy Galaxies in the Sloan Digital Sky Survey Stripe 82 Using the Galaxy Zoo. <i>Astrophysical Journal</i> , 2021, 912, 49.	1.6	7
77	Spatially Resolved Analysis of Neutral Winds, Stars, and Ionized Gas Kinematics with MEGARA/GTC: New Insights on the Nearby Galaxy UGC 10205. <i>Astrophysical Journal</i> , 2020, 890, 5.	1.6	6
78	A Peculiar Type II QSO Identified via Broad-band Detection of Extreme Nebular Line Emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	5
79	A quantitative demonstration that stellar feedback locally regulates galaxy growth. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1172-1187.	1.6	4
80	High-resolution Spectral Line Indices Useful for the Analysis of Stellar Populations. <i>Astrophysical Journal Letters</i> , 2020, 889, L31.	3.0	4
81	Ultrafaint [C II] Emission in a Redshift = 2 Gravitationally Lensed Metal-poor Dwarf Galaxy. <i>Astrophysical Journal</i> , 2021, 909, 130.	1.6	4
82	FirstLight IV: diversity in sub-L* galaxies at cosmic dawn. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4472-4480.	1.6	4
83	Spectroscopy of an extreme [O III] emitting active galactic nucleus at $z \approx 3.212$: implications for the reionization era. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 3102-3112.	1.6	4
84	Constraints on the dust extinction law of the Galaxy with <i>Swift</i> /UVOT, <i>Gaia</i> , and <i>2MASS</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 283-292.	1.6	2
85	Resolved maps of stellar mass and SED of galaxies from optical/NIR imaging and SPS models. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 89-92.	0.0	1
86	Ultraviolet/Optical Emission of the Ionized Gas in AGN: Diagnostics of the Ionizing Source and Gas Properties. <i>Frontiers in Astronomy and Space Sciences</i> , 2017, 4, .	1.1	1
87	Concluding Remarks: Recent Achievements and Future Challenges in Stellar Population Studies. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 303-304.	0.0	0
88	The LF of TP-AGB stars in the LMC/SMC. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 282-285.	0.0	0