Claudio Dalla Vecchia

List of Publications by Year
in descending order

118	16,267	28190 55	21474 114
papers	citations	h-index	g-index

122	122	122	6453
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Predicted future fate of COSMOS galaxy protoclusters over 11â€‰Gyr with constrained simulations. Nature Astronomy, 2022, 6, 857-865.	4.2	8
2	Higher order Hamiltonian Monte Carlo sampling for cosmological large-scale structure analysis. Monthly Notices of the Royal Astronomical Society, 2021, 502, 3976-3992.	1.6	3
3	History of the gas fuelling star formation in <scp>eagle</scp> galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4655-4668.	1.6	7
4	Formation of the first galaxies in the aftermath of the first supernovae. Monthly Notices of the Royal Astronomical Society, 2021, 508, 3226-3238.	1.6	20
5	Evaluating hydrodynamical simulations with green valley galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 502, 3685-3702.	1.6	11
6	FOREVER22: galaxy formation in protocluster regions. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4037-4057.	1.6	21
7	Sub one per cent mass fractions of young stars in red massive galaxies. Nature Astronomy, 2020, 4, 252-259.	4.2	36
8	Kinematic analysis of eagle simulations: evolution of Î»Re and its connection with mergers and gas accretion. Monthly Notices of the Royal Astronomical Society, 2020, 494, 5652-5665.	1.6	20
9	Constraining the inner density slope of massive galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4717-4733.	1.6	15
10	The intracluster light as a tracer of the total matter density distribution: a view from simulations. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1859-1864.	1.6	34
11	The discovery of the most UVâ€“Ly Î± luminous star-forming galaxy: a young, dust- and metal-poor starburst with QSO-like luminosities. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 499, L105-L110.	1.2	13
12	Deep spectroscopy in nearby galaxy clusters â€“ V. The Perseus cluster. Monthly Notices of the Royal Astronomical Society, 2020, 494, 1681-1692.	1.6	9
13	Signatures of the Galactic bar in high-order moments of proper motions measured by Gaia. Astronomy and Astrophysics, 2020, 634, A90.	2.1	2
14	The First Billion Years project: Finding infant globular clusters at z = 6. Astronomy and Astrophysics, 2020, 641, A132.	2.1	12
15	Stellar splashback: the edge of the intracluster light. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4181-4192.	1.6	22
16	Comparing approximate methods for mock catalogues and covariance matrices â€“ III: bispectrum. Monthly Notices of the Royal Astronomical Society, 2019, 482, 4883-4905.	1.6	55
17	Comparing approximate methods for mock catalogues and covariance matrices â€“ I. Correlation function. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1786-1806.	1.6	63
18	The signal of decaying dark matter with hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4071-4089.	1.6	9

#	Article	IF	Citations
19	Disruption of satellite galaxies in simulated groups and clusters: the roles of accretion time, baryons, and pre-processing. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2287-2311.	1.6	47
20	Comparing approximate methods for mock catalogues and covariance matrices II: power spectrum multipoles. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2806-2824.	1.6	53
21	A case study of hurdle and generalized additive models in astronomy: the escape of ionizing radiation. Monthly Notices of the Royal Astronomical Society, 2019, 483, 3307-3321.	1.6	6
22	Galaxies with monstrous black holes in galaxy cluster environments. Monthly Notices of the Royal Astronomical Society, 2019, 485, 396-407.	1.6	14
23	Conditions for Reionizing the Universe with a Low Galaxy Ionizing Photon Escape Fraction. Astrophysical Journal, 2019, 879, 36.	1.6	201
24	The Cluster-EAGLE project: a comparison of dynamical mass estimators using simulated clusters. Monthly Notices of the Royal Astronomical Society, 2019, 482, 3308-3325.	1.6	14
25	The diverse density profiles of galaxy clusters with self-interacting dark matter plus baryons. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 476, L20-L24.	1.2	62
26	Growing a â€˜cosmic beastâ€™: observations and simulations of MACSâ€‰J0717.5+3745. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2901-2917.	1.6	25
27	The VANDELS survey: dust attenuation in star-forming galaxies at z = 3-4. Monthly Notices of the Royal Astronomical Society, 2018, 476, 3218-3232.	1.6	33
28	The Origin of the Relation between Metallicity and Size in Star-forming Galaxies. Astrophysical Journal, 2018, 859, 109.	1.6	19
29	The evolution of the luminosity function faint end of cluster galaxies in the Cluster-EAGLE simulation. Proceedings of the International Astronomical Union, 2018, 14, 495-497.	0.0	0
30	The Cluster-EAGLE project: velocity bias and the velocity dispersionâ€“mass relation of cluster galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 474, 3746-3759.	1.6	33
31	The connection between mass, environment, and slow rotation in simulated galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 476, 4327-4345.	1.6	65
32	Signatures of the Galactic bar on stellar kinematics unveiled by APOGEE. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1231-1243.	1.6	6
33	Growth of First Galaxies: Impacts of Star Formation and Stellar Feedback. Astrophysical Journal, 2017, 846, 30.	1.6	28
34	On the Dearth of Ultra-faint Extremely Metal-poor Galaxies. Astrophysical Journal, 2017, 835, 159.	1.6	15
35	The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: Cosmological implications of the configuration-space clustering wedges. Monthly Notices of the Royal Astronomical Society, 2017, 464, 1640-1658.	1.6	143
36	A numerical study of interactions and stellar bars. Monthly Notices of the Royal Astronomical Society, 2017, 464, 1502-1511.	1.6	39

#	Article	IF	Citations
37	The Aurora radiation-hydrodynamical simulations of reionization: calibration and first results. Monthly Notices of the Royal Astronomical Society, 2017, 466, 960-973.	1.6	54
38	The First Billion Years project: constraining the dust attenuation law of star-forming galaxies at z â‰ƒ 5. Monthly Notices of the Royal Astronomical Society, 2017, 470, 3006-3026.	1.6	58
39	Testing the conditional mass function of dark matter haloes against numerical N-body simulations. Monthly Notices of the Royal Astronomical Society, 2017, 467, 3424-3442.	1.6	9
40	Deep spectroscopy in nearby galaxy clusters â€“ III. Orbital structure of galaxies in Abell 85. Monthly Notices of the Royal Astronomical Society, 2017, 468, 364-377.	1.6	17
41	The Hydrangea simulations: galaxy formation in and around massive clusters. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4186-4208.	1.6	167
42	The Spectral Evolution of the First Galaxies. III. Simulated James Webb Space Telescope Spectra of Reionization-epoch Galaxies with Lyman-continuum Leakage. Astrophysical Journal, 2017, 836, 78.	1.6	48
43	Galactic wind X-ray heating of the intergalactic medium during the Epoch of Reionization. Monthly Notices of the Royal Astronomical Society, 2017, 471, 3632-3645.	1.6	6
44	The Cluster-EAGLE project: global properties of simulated clusters with resolved galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 471, 1088-1106.	1.6	178
45	Barred galaxies in the EAGLE cosmological hydrodynamical simulation. Monthly Notices of the Royal Astronomical Society, 2017, 469, 1054-1064.	1.6	66
46	Supermassive black holes in the EAGLE Universe. Revealing the observables of their growth. Monthly Notices of the Royal Astronomical Society, 2016, 462, 190-205.	1.6	84
47	The APOSTLE simulations: solutions to the Local Group's cosmic puzzles. Monthly Notices of the Royal Astronomical Society, 2016, 457, 1931-1943.	1.6	453
48	nIFTy galaxy cluster simulations â€“ IV. Quantifying the influence of baryons on halo properties. Monthly Notices of the Royal Astronomical Society, 2016, 458, 4052-4073.	1.6	39
49	The eagle simulations of galaxy formation: Public release of halo and galaxy catalogues. Astronomy and Computing, 2016, 15, 72-89.	0.8	394
50	The distribution of atomic hydrogen in eagle galaxies: morphologies, profiles, and Hâ€‰i holes. Monthly Notices of the Royal Astronomical Society, 2016, 456, 1115-1136.	1.6	117
51	The fate of high-redshift massive compact galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 457, 1916-1930.	1.6	61
52	nIFTy galaxy cluster simulations â€“ I. Dark matter and non-radiative models. Monthly Notices of the Royal Astronomical Society, 2016, 457, 4063-4080.	1.6	63
53	Deep spectroscopy of nearby galaxy clusters â€“ I. Spectroscopic luminosity function of Abell 85. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1590-1603.	1.6	26
54	Gaussian covariance matrices for anisotropic galaxy clustering measurements. Monthly Notices of the Royal Astronomical Society, 2016, 457, 1577-1592.	1.6	96

#	Article	IF	Citations
55	Bent by baryons: the low-mass galaxy-halo relation. Monthly Notices of the Royal Astronomical Society, 2015, 448, 2941-2947.	1.6	163
56	The impact of angular momentum on black hole accretion rates in simulations of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1038-1057.	1.6	219
57	Colours and luminosities ofzÂ=Â0.1 galaxies in the eagle simulation. Monthly Notices of the Royal Astronomical Society, 2015, 452, 2879-2896.	1.6	200
58	The First Billion Years project: the escape fraction of ionizing photons in the epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2015, 451, 2544-2563.	1.6	172
59	Molecular hydrogen abundances of galaxies in the EAGLE simulations. Monthly Notices of the Royal Astronomical Society, 2015, 452, 3815-3837.	1.6	182
60	The eagle simulations of galaxy formation: the importance of the hydrodynamics scheme. Monthly Notices of the Royal Astronomical Society, 2015, 454, 2277-2291.	1.6	192
61	Evolution of galaxy stellar masses and star formation rates in the eagle simulations. Monthly Notices of the Royal Astronomical Society, 2015, 450, 4486-4504.	1.6	332
62	The EAGLE simulations of galaxy formation: calibration of subgrid physics and model variations. Monthly Notices of the Royal Astronomical Society, 2015, 450, 1937-1961.	1.6	1,038
63	The alignment and shape of dark matter, stellar, and hot gas distributions in the EAGLE and cosmo-OWLS simulations. Monthly Notices of the Royal Astronomical Society, 2015, 453, 721-738.	1.6	108
64	Spatially adaptive radiation-hydrodynamical simulations of galaxy formation during cosmological reionization. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1586-1605.	1.6	49
65	The EAGLE project: simulating the evolution and assembly of galaxies and their environments. Monthly Notices of the Royal Astronomical Society, 2015, 446, 521-554.	1.6	2,549
66	The First Billion Years project: gamma-ray bursts at zÂ>Â5. Monthly Notices of the Royal Astronomical Society, 2015, 446, 4239-4249.	1.6	13
67	The effect of baryons on the inner density profiles of rich clusters. Monthly Notices of the Royal Astronomical Society, 2015, 452, 343-355.	1.6	80
68	A cosmological context for compact massive galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 449, 2396-2404.	1.6	26
69	Baryon effects on the internal structure of ÎCDM haloes in the EAGLE simulations. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1247-1267.	1.6	302
70	The impact of baryonic processes on the two-point correlation functions of galaxies, subhaloes and matter. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2997-3010.	1.6	82
71	The First Billion Years project: birthplaces of direct collapse black holes. Monthly Notices of the Royal Astronomical Society, 2014, 443, 648-657.	1.6	92
72	The First Billion Years project: dark matter haloes going from contraction to expansion and back again. Monthly Notices of the Royal Astronomical Society, 2014, 443, 985-1001.	1.6	17

#	Article	IF	Citations
73	The impact of galaxy formation on the total mass, mass profile and abundance of haloes. Monthly Notices of the Royal Astronomical Society, 2014, 442, 2641-2658.	1.6	137
74	Physical properties of simulated galaxy populations at z = 2 â€“ II. Effects of cosmology, reionization and ISM physics. Monthly Notices of the Royal Astronomical Society, 2013, 435, 2955-2967.	1.6	27
75	The impact of different physical processes on the statistics of Lyman-limit and damped Lyman Î± absorbers. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2689-2707.	1.6	40
76	Physical properties of simulated galaxy populations at z = 2 â€“ I. Effect of metal-line cooling and feedback from star formation and AGN. Monthly Notices of the Royal Astronomical Society, 2013, 435, 2931-2954.	1.6	59
77	A measurement of galaxy halo mass from the surrounding HÂi LyÎ± absorption. Monthly Notices of the Royal Astronomical Society, 2013, 433, 3103-3114.	1.6	31
78	The First Billion Years project: the impact of stellar radiation on the co-evolution of Populations II and III. Monthly Notices of the Royal Astronomical Society, 2013, 428, 1857-1872.	1.6	155
79	The impact of baryons on the spins and shapes of dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2013, 429, 3316-3329.	1.6	114
80	Ubiquitous seeding of supermassive black holes by direct collapse. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2854-2871.	1.6	202
81	The growth of the stellar seeds of supermassive black holes. , 2012, , .		0
82	The First Billion Years simulation project. Galactic outflows and metal enrichment. Proceedings of the International Astronomical Union, 2012, 8, 17-20.	0.0	0
83	Absorption signatures of warm-hot gas at low redshift: broad Hâ€‰i LyÎ± absorbers. Monthly Notices of the Royal Astronomical Society, 2012, 425, 1640-1663.	1.6	47
84	Simulating galactic outflows with thermal supernova feedback. Monthly Notices of the Royal Astronomical Society, 2012, 426, 140-158.	1.6	437
85	Rotation rates, sizes and star formation efficiencies of a representative population of simulated disc galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 427, 379-392.	1.6	44
86	Implementation of feedback in smoothed particle hydrodynamics: towards concordance of methods. Monthly Notices of the Royal Astronomical Society, 2012, 419, 465-478.	1.6	162
87	Modelling neutral hydrogen in galaxies using cosmological hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2012, , no-no.	1.6	18
88	The filling factor of intergalactic metals at redshift z= 3. Monthly Notices of the Royal Astronomical Society, 2012, 420, 1053-1060.	1.6	41
89	Influence of baryons on the orbital structure of dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1863-1879.	1.6	29
90	Hydrodynamical simulations and semi-analytic models of galaxy formation: two sides of the same coin. Monthly Notices of the Royal Astronomical Society, 2012, 421, 3579-3593.	1.6	27

#	Article	IF	Citations
91	The origin of discs and spheroids in simulated galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1544-1555.	1.6	215
92	The Aquila comparison project: the effects of feedback and numerical methods on simulations of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1726-1749.	1.6	381
93	THROUGH THICK AND THINâ€"H I ABSORPTION IN COSMOLOGICAL SIMULATIONS. Astrophysical Journal Letters, 2011, 737, L37.	3.0	115
94	Gas expulsion by quasar-driven winds as a solution to the overcooling problem in galaxy groups and clusters. Monthly Notices of the Royal Astronomical Society, 2011, 412, 1965-1984.	1.6	185
95	Absorption signatures of warm-hot gas at low redshift: Oâ€ƒvi. Monthly Notices of the Royal Astronomical Society, 2011, 413, 190-212.	1.6	53
96	The effects of galaxy formation on the matter power spectrum: a challenge for precision cosmology. Monthly Notices of the Royal Astronomical Society, 2011, 415, 3649-3665.	1.6	344
97	Cosmological simulations of the formation of the stellar haloes around disc galaxies. Monthly Notices of the Royal Astronomical Society, 2011, 416, 2802-2820.	1.6	232
98	The correlation structure of dark matter halo properties. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 415, L69-L73.	1.2	41
99	The rates and modes of gas accretion on to galaxies and their gaseous haloes. Monthly Notices of the Royal Astronomical Society, 2011, 414, 2458-2478.	1.6	264
100	The drop in the cosmic star formation rate below redshift 2 is caused by a change in the mode of gas accretion and by active galactic nucleus feedback. Monthly Notices of the Royal Astronomical Society, 2011, 415, 2782-2789.	1.6	101
101	Metal-line emission from the warm-hot intergalactic medium - II. Ultraviolet. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1120-1138.	1.6	29
102	The enrichment history of cosmic metals. Monthly Notices of the Royal Astronomical Society, 2010, 409, 132-144.	1.6	50
103	Feedback and the structure of simulated galaxies at redshift z= 2. Monthly Notices of the Royal Astronomical Society, 2010, 409, 1541-1556.	1.6	131
104	The physics driving the cosmic star formation history. Monthly Notices of the Royal Astronomical Society, 2010, 402, 1536-1560.	1.6	704
105	Impact of baryon physics on dark matter structures: a detailed simulation study of halo density profiles. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	1.6	135
106	Metal-line emission from the warm-hot intergalactic medium - I. Soft X-rays. Monthly Notices of the Royal Astronomical Society, 2010, 407, 544-566.	1.6	39
107	The case for AGN feedback in galaxy groups. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	1.6	105
108	Galaxiesï¿½ï¿½ï¿½intergalactic medium interaction calculation ï¿½ï¿½ï¿½ I. Galaxy formation as a function of large-scale environment. Monthly Notices of the Royal Astronomical Society, 2009, 399, 1773-1794.	1.6	216

#	Article	IF	Citations
109	Chemical enrichment in cosmological, smoothed particle hydrodynamics simulations. Monthly Notices of the Royal Astronomical Society, 2009, 399, 574-600.	1.6	525
110	The origin of extended disc galaxies at z = 2. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 399, L64-L68.	1.2	23
111	Dark matter halo concentrations in the Wilkinson Microwave Anisotropy Probe year 5 cosmology. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 390, L64-L68.	1.2	740
112	Simulating galactic outflows with kinetic supernova feedback. Monthly Notices of the Royal Astronomical Society, 2008, 387, 1431-1444.	1.6	359
113	Simulations of Magnetic Fields in Filaments. Astrophysical Journal, 2005, 631, L21-L24.	1.6	102
114	Quenching cluster cooling flows with recurrent hot plasma bubbles. Monthly Notices of the Royal Astronomical Society, 2004, 355, 995-1004.	1.6	87
115	Non-instantaneous gas recycling and chemical evolution in N-body disk galaxies. Astrophysics and Space Science, 2004, 289, 441-444.	0.5	1
116	On the relation between the Schmidt and Kennicutt-Schmidt star formation laws and its implications for numerical simulations. Monthly Notices of the Royal Astronomical Society, 0, 383, 1210-1222.	1.6	521
117	The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: Cosmological implications of the Fourier space wedges of the final sample. Monthly Notices of the Royal Astronomical Society, 0, , stw3384.	1.6	58
118	One simulation to have them all: performance of the Bias Assignment Method against N-body simulations. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	13