

Stefano Borgani

List of Publications by Year in descending order

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101
papers

6,717
citations

93792

39
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68831

81
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103
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103
docs citations

103
times ranked

5025
citing authors

#	ARTICLE	IF	CITATIONS
1	<scp>The Three Hundred</scp> project: The <scp>gizmo-simba</scp> run. Monthly Notices of the Royal Astronomical Society, 2022, 514, 977-996.	1.6	31
2	Weighing cosmic structures with clusters of galaxies and the intergalactic medium. Monthly Notices of the Royal Astronomical Society, 2022, 515, 857-870.	1.6	10
3	Chandra Observations of the Planck Early Sunyaev-Zeldovich Sample: A Reexamination of Masses and Mass Proxies. Astrophysical Journal, 2021, 914, 58.	1.6	11
4	Dust evolution in zoom-in cosmological simulations of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2021, 503, 511-532.	1.6	25
5	On the impact of baryons on the halo mass function, bias, and cluster cosmology. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2316-2335.	1.6	42
6	An excess of small-scale gravitational lenses observed in galaxy clusters. Science, 2020, 369, 1347-1351.	6.0	98
7	Constraining the origin and models of chemical enrichment in galaxy clusters using the <i>Athena</i> X-IFU. Astronomy and Astrophysics, 2020, 642, A90.	2.1	13
8	Brightest cluster galaxies: the centre can(not?) hold. Monthly Notices of the Royal Astronomical Society, 2020, 500, 310-318.	1.6	17
9	The seeds of supermassive black holes and the role of local radiation and metal spreading. Publications of the Astronomical Society of Australia, 2019, 36, .	1.3	16
10	Chemical evolution of disc galaxies from cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1384-1404.	1.6	17
11	The X-Ray Halo Scaling Relations of Supermassive Black Holes. Astrophysical Journal, 2019, 884, 169.	1.6	64
12	Cosmology and fundamental physics with the Euclid satellite. Living Reviews in Relativity, 2018, 21, 2.	8.2	602
13	The large-scale environment from cosmological simulations – I. The baryonic cosmic web. Monthly Notices of the Royal Astronomical Society, 2018, 473, 68-79.	1.6	28
14	Dust evolution in galaxy cluster simulations. Monthly Notices of the Royal Astronomical Society, 2018, 479, 2588-2606.	1.6	41
15	Colour-magnitude diagram in simulations of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2018, 480, 722-741.	1.6	8
16	The effect of baryons in the cosmological lensing PDFs. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1305-1325.	1.6	26
17	The Three Hundred project: a large catalogue of theoretically modelled galaxy clusters for cosmological and astrophysical applications. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2898-2915.	1.6	131
18	Simulating x-ray observations of galaxy clusters with the X-ray Integral Field Unit onboard the Athena mission. , 2018, , .		2

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19	Simulating cosmologies beyond Λ CDM with PINOCCHIO. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 008-008.	1.9	18
20	Constraining f (R) gravity with Sunyaev-Zel'dovich clusters detected by the Planck satellite. Physical Review D, 2017, 95, .	1.6	18
21	Testing approximate predictions of displacements of cosmological dark matter halos. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 050-050.	1.9	14
22	The Fraction of Cool-core Clusters in X-Ray versus SZ Samples Using Chandra Observations. Astrophysical Journal, 2017, 843, 76.	1.6	80
23	Improving fast generation of halo catalogues with higher order Lagrangian perturbation theory. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4658-4677.	1.6	40
24	On the dynamical state of galaxy clusters: insights from cosmological simulations II. Monthly Notices of the Royal Astronomical Society, 2017, 464, 2502-2510.	1.6	40
25	On the effect of galactic outflows in cosmological simulations of disc galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 470, 3167-3193.	1.6	19
26	NUMERICAL SIMULATIONS CHALLENGED ON THE PREDICTION OF MASSIVE SUBHALO ABUNDANCE IN GALAXY CLUSTERS: THE CASE OF ABELL 2142. Astrophysical Journal Letters, 2016, 827, L5.	3.0	17
27	nFTy galaxy cluster simulations II. Radiative models. Monthly Notices of the Royal Astronomical Society, 2016, 459, 2973-2991.	1.6	45
28	ON THE NATURE OF HYDROSTATIC EQUILIBRIUM IN GALAXY CLUSTERS. Astrophysical Journal, 2016, 827, 112.	1.6	149
29	Radiative feedback and cosmic molecular gas: the role of different radiative sources. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3733-3752.	1.6	18
30	Kinetic AGN feedback effects on cluster cool cores simulated using SPH. Monthly Notices of the Royal Astronomical Society, 2016, 461, 1548-1567.	1.6	40
31	How does our choice of observable influence our estimation of the centre of a galaxy cluster? Insights from cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2566-2575.	1.6	38
32	Neutral hydrogen in galaxy clusters: impact of AGN feedback and implications for intensity mapping. Monthly Notices of the Royal Astronomical Society, 2016, 456, 3553-3570.	1.6	38
33	nFTy galaxy cluster simulations I. Dark matter and non-radiative models. Monthly Notices of the Royal Astronomical Society, 2016, 457, 4063-4080.	1.6	63
34	The early phases of galaxy clusters formation in IR: coupling hydrodynamical simulations with GRASIL-3D. Monthly Notices of the Royal Astronomical Society, 2015, 450, 1320-1332.	1.6	40
35	COOL CORE CLUSTERS FROM COSMOLOGICAL SIMULATIONS. Astrophysical Journal Letters, 2015, 813, L17.	3.0	159
36	Simulating realistic disc galaxies with a novel sub-resolution ISM model. Monthly Notices of the Royal Astronomical Society, 2015, 447, 178-201.	1.6	55

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37	The effect of active galactic nuclei feedback on the halo mass function. Monthly Notices of the Royal Astronomical Society, 2014, 441, 1769-1782.	1.6	77
38	Kinetic or thermal AGN feedback in simulations of isolated and merging disc galaxies calibrated by the M- \dot{M} relation. Monthly Notices of the Royal Astronomical Society, 2014, 437, 1456-1475.	1.6	44
39	A semi-analytic model comparison: testing cooling models against hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2014, 441, 2058-2077.	1.6	19
40	Neutrino constraints: what large-scale structure and CMB data are telling us?. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 081-081.	1.9	44
41	TEMPERATURE STRUCTURE OF THE INTRACLUSTER MEDIUM FROM SMOOTHED-PARTICLE HYDRODYNAMICS AND ADAPTIVE-MESH REFINEMENT SIMULATIONS. Astrophysical Journal, 2014, 791, 96.	1.6	55
42	CLASH-VLT: CONSTRAINTS ON THE DARK MATTER EQUATION OF STATE FROM ACCURATE MEASUREMENTS OF GALAXY CLUSTER MASS PROFILES. Astrophysical Journal Letters, 2014, 783, L11.	3.0	23
43	Galactic winds in cosmological simulations of the circumgalactic medium. Monthly Notices of the Royal Astronomical Society, 2013, 430, 3213-3234.	1.6	45
44	Cosmology with massive neutrinos III: the halo mass function and an application to galaxy clusters. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 012-012.	1.9	100
45	Brightest cluster galaxies in cosmological simulations: achievements and limitations of active galactic nuclei feedback models. Monthly Notices of the Royal Astronomical Society, 2013, 436, 1750-1764.	1.6	62
46	Cosmology and Fundamental Physics with the Euclid Satellite. Living Reviews in Relativity, 2013, 16, 6.	8.2	683
47	On the stellar populations of massive galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 426, L61-L65.	1.2	23
48	Formation of Galaxy Clusters. Annual Review of Astronomy and Astrophysics, 2012, 50, 353-409.	8.1	579
49	A WARM MODE OF GAS ACCRETION ON FORMING GALAXIES. Astrophysical Journal Letters, 2012, 749, L34.	3.0	14
50	Merger-induced scatter and bias in the cluster mass-Sunyaev-Zel'dovich effect scaling relation. Monthly Notices of the Royal Astronomical Society, 2012, 419, 1766-1779.	1.6	41
51	Convergence of galaxy properties with merger tree temporal resolution. Monthly Notices of the Royal Astronomical Society, 2012, 419, 3590-3603.	1.6	25
52	Schmidt-Kennicutt relations in SPH simulations of disc galaxies with effective thermal feedback from supernovae. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2485-2497.	1.6	17
53	The effects of baryons on the halo mass function. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2279-2287.	1.6	91
54	The halo mass function in interacting dark energy models. Monthly Notices of the Royal Astronomical Society, 2012, 424, 993-1005.	1.6	37

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55	Properties of fossil groups in cosmological simulations and galaxy formation models. Monthly Notices of the Royal Astronomical Society, 2011, 416, 2997-3008.	1.6	33
56	Cosmological Simulations of Galaxy Clusters. Advanced Science Letters, 2011, 4, 204-227.	0.2	106
57	Measuring the escape velocity and mass profiles of galaxy clusters beyond their virial radius. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	1.6	65
58	A subresolution multiphase interstellar medium model of star formation and supernova energy feedback. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	1.6	37
59	Evolution in the Iron Abundance of the ICM. Progress of Theoretical Physics Supplement, 2007, 169, 49-52.	0.2	0
60	ESTREMO/WFXRT: Extreme phySics in the TRansient and Evolving COsmos. , 2006, , .		5
61	Diffuse Stellar Component in Galaxy Clusters and the Evolution of the Most Massive Galaxies at $z \approx 1$. Astrophysical Journal, 2006, 652, L89-L92.	1.6	81
62	Hydrodynamical Simulations of Galaxy Clusters. Astrophysics and Space Science, 2004, 294, 51-56.	0.5	4
63	Cosmology and Astrophysics with Clusters of Galaxies (Invited). , 2004, , 191-198.		0
64	Recovering the initial conditions of our local Universe from NOG and PSCz catalogues. Monthly Notices of the Royal Astronomical Society, 2003, 341, 692-706.	1.6	4
65	On determining the cluster abundance normalization. Monthly Notices of the Royal Astronomical Society, 2003, 342, 163-175.	1.6	120
66	Chandra Deep Field South: The 1 Ms Catalog. Astrophysical Journal, Supplement Series, 2002, 139, 369-410.	3.0	501
67	The Evolution of X-Ray Clusters of Galaxies. Annual Review of Astronomy and Astrophysics, 2002, 40, 539-577.	8.1	375
68	SNe heating and the chemical evolution of the intra-cluster medium. New Astronomy, 2002, 7, 227-247.	0.8	67
69	The Intracluster Medium in $z \approx 1$ Galaxy Clusters. Astrophysical Journal, 2001, 552, 504-507.	1.6	74
70	X-ray clusters of galaxies as tracers of structure in the Universe. Nature, 2001, 409, 39-45.	13.7	108
71	Measuring Ω_m with the ROSAT Deep Cluster Survey. Astrophysical Journal, 2001, 561, 13-21.	1.6	245
72	Correlation Analysis of SFI Peculiar Velocities. Astronomical Journal, 2000, 119, 102-110.	1.9	16

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73	Optical Luminosities and Mass-to-Light Ratios of Nearby Galaxy Clusters. <i>Astrophysical Journal</i> , 2000, 530, 62-79.	1.6	65
74	ENEAR Redshift-Distance Survey: Cosmological Constraints. <i>Astrophysical Journal</i> , 2000, 537, L1-L4.	1.6	17
75	Microwave background anisotropies and large scale structure constraints on isocurvature modes in a two-field model of inflation. <i>Journal of High Energy Physics</i> , 1999, 1999, 015-015.	1.6	33
76	Seeking the Local Convergence Depth: The Abell Cluster Dipole Flow to 200 h Mpc. <i>Astrophysical Journal</i> , 1999, 510, L11-L14.	1.6	47
77	Cosmological Constraints from the ROSAT Deep Cluster Survey. <i>Astrophysical Journal</i> , 1999, 517, 40-53.	1.6	92
78	Formation of cosmic structures in a light gravitino-dominated universe. <i>Physical Review D</i> , 1998, 57, 2089-2100.	1.6	35
79	The Observational Mass Function of Nearby Galaxy Clusters. <i>Astrophysical Journal</i> , 1998, 506, 45-52.	1.6	97
80	Statistical Tests for CHDM and Λ CDM Cosmologies. <i>Astrophysical Journal</i> , 1997, 479, 580-591.	1.6	16
81	Peculiar Velocities of Clusters in Cold Dark Matter Models. <i>Astrophysical Journal</i> , 1997, 482, L121-L124.	1.6	21
82	Light gravitinos as mixed dark matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 386, 189-197.	1.5	85
83	Large-Scale Structure in Mixed Dark Matter Models with a Nonthermal Volatile Component. <i>Astrophysical Journal</i> , 1996, 470, 92.	1.6	6
84	Scaling in the Universe. <i>Physics Reports</i> , 1995, 251, 1-152.	10.3	70
85	Damped Lyman-alpha systems versus cold + hot dark matter. <i>Astrophysical Journal</i> , 1995, 444, 1.	1.6	74
86	Moments of the cluster distribution as a test of dark matter models. <i>Astrophysical Journal</i> , 1995, 441, L57.	1.6	6
87	Box-counting clustering analysis: Corrections for finite sample effects. <i>Physical Review E</i> , 1994, 49, 4907-4912.	0.8	3
88	Is there any scaling in the cluster distribution?. <i>Astrophysical Journal</i> , 1994, 435, 37.	1.6	7
89	Sizes of voids as a test for dark matter models. <i>Astrophysical Journal</i> , 1994, 437, L71.	1.6	26
90	Multifractal analysis of the galaxy distribution: Reliability of results from finite data sets. <i>Physical Review E</i> , 1993, 47, 3879-3888.	0.8	30

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91	The multifractal behaviour of hierarchical density distributions. Monthly Notices of the Royal Astronomical Society, 1993, 260, 537-549.	1.6	12
92	Multifractal analysis of cluster distribution in two dimensions. Astrophysical Journal, 1993, 404, 21.	1.6	10
93	A measurement of $\Omega(0)$ from the internal dynamics of spiral galaxies. Astrophysical Journal, 1993, 405, 459.	1.6	1
94	Large-scale angular correlations in cold dark matter models. Astrophysical Journal, 1993, 413, L55.	1.6	7
95	Galaxy clusters as biased tracers of the galaxy distribution. Monthly Notices of the Royal Astronomical Society, 1992, 254, 306-314.	1.6	4
96	Multifractal properties of cosmological N-body simulations. Astrophysical Journal, 1992, 394, 422.	1.6	28
97	The angular three-point function of galaxy clusters. Astrophysical Journal, 1992, 395, 339.	1.6	3
98	Correlation functions of matter from galaxy rotation curves. Astrophysical Journal, 1991, 374, 20.	1.6	4
99	Biased theories of galaxy formation with arbitrary threshold functions and background distribution. Astrophysical Journal, 1990, 348, 398.	1.6	3
100	Statistics of matter distribution from halo dynamics. Astrophysical Journal, 1990, 356, 350.	1.6	4
101	Impact of AGN feedback on galaxies and their multiphase ISM across cosmic time. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	18