Romain Teyssier

List of Publications by Year
in descending order

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168 papers	16,196 citations	13854 67 h-index	17090 122 g-index
169 all docs	169 docs citations	169 times ranked	7426 citing authors

#	Article	IF	Citations
1	Cosmological hydrodynamics with adaptive mesh refinement. Astronomy and Astrophysics, 2002, 385, 337-364.	2.1	1,522
2	Cold streams in early massive hot haloes as the main mode of galaxy formation. Nature, 2009, 457, 451-454.	13.7	1,333
3	Dancing in the dark: galactic properties trace spin swings along the cosmic web. Monthly Notices of the Royal Astronomical Society, 2014, 444, 1453-1468.	1.6	614
4	MORPHOLOGICAL QUENCHING OF STAR FORMATION: MAKING EARLY-TYPE GALAXIES RED. Astrophysical Journal, 2009, 707, 250-267.	1.6	590
5	Fundamental differences between SPH and grid methods. Monthly Notices of the Royal Astronomical Society, 0, 380, 963-978.	1.6	525
6	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
7	Cusp-core transformations in dwarf galaxies: observational predictions. Monthly Notices of the Royal Astronomical Society, 2013, 429, 3068-3078.	1.6	338
8	A high order Godunov scheme with constrained transport andÂadaptive mesh refinement for astrophysical magnetohydrodynamics. Astronomy and Astrophysics, 2006, 457, 371-384.	2.1	317
9	Self-regulated growth of supermassive black holes by a dual jet-heating active galactic nucleus feedback mechanism: methods, tests and implications for cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2012, 420, 2662-2683.	1.6	289
10	The formation of disc galaxies in a Î›CDM universe. Monthly Notices of the Royal Astronomical Society, 2011, 410, 1391-1408.	1.6	234
11	On the onset of galactic winds in quiescent star forming galaxies. Astronomy and Astrophysics, 2008, 477, 79-94.	2.1	226
12	ramses-rt: radiation hydrodynamics in the cosmological context. Monthly Notices of the Royal Astronomical Society, 2013, 436, 2188-2231.	1.6	218
13	THE DRIVING MECHANISM OF STARBURSTS IN GALAXY MERGERS. Astrophysical Journal Letters, 2010, 720, L149-L154.	3.0	214
14	HYDRODYNAMICS OF HIGH-REDSHIFT GALAXY COLLISIONS: FROM GAS-RICH DISKS TO DISPERSION-DOMINATED MERGERS AND COMPACT SPHEROIDS. Astrophysical Journal, 2011, 730, 4.	1.6	214
15	<tt>ECOSMOG</tt>: an Efficient COde for Simulating MOdified Gravity. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 051-051.	1.9	212
16	ISM properties in hydrodynamic galaxy simulations: turbulence cascades, cloud formation, role of gravity and feedback. Monthly Notices of the Royal Astronomical Society, 2010, 409, 1088-1099.	1.6	204
17	BLACK HOLE GROWTH AND ACTIVE GALACTIC NUCLEI OBSCURATION BY INSTABILITY-DRIVEN INFLOWS IN HIGH-REDSHIFT DISK GALAXIES FED BY COLD STREAMS. Astrophysical Journal Letters, 2011, 741, L33.	3.0	199
18	The history of the baryon budget. Astronomy and Astrophysics, 2006, 445, 1-27.	2.1	194

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19	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. Astrophysical Journal, Supplement Series, 2014, 210, 14.	3.0	185
20	Disc formation and the origin of clumpy galaxies at high redshift. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 397, L64-L68.	1.2	167
21	Black hole evolution â€“ I. Supernova-regulated black hole growth. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1502-1518.	1.6	165
22	Cosmic Dawn (CoDa): the first radiation-hydrodynamics simulation of reionization and galaxy formation in the Local Universe. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1462-1485.	1.6	163
23	THE LONG LIVES OF GIANT CLUMPS AND THE BIRTH OF OUTFLOWS IN GAS-RICH GALAXIES AT HIGH REDSHIFT. Astrophysical Journal, 2014, 780, 57.	1.6	161
24	A sub-parsec resolution simulation of the Milky Way: global structure of the interstellar medium and properties of molecular clouds. Monthly Notices of the Royal Astronomical Society, 2013, 436, 1836-1851.	1.6	159
25	Mass distribution in galaxy clusters: the role of Active Galactic Nuclei feedback. Monthly Notices of the Royal Astronomical Society, 2011, 414, 195-208.	1.6	153
26	PKDGRAV3: beyond trillion particle cosmological simulations for the next era of galaxy surveys. Computational Astrophysics and Cosmology, 2017, 4, .	22.7	150
27	Magnetic processes in a collapsing dense core. Astronomy and Astrophysics, 2008, 477, 25-34.	2.1	147
28	Gravity-driven LyÎ± blobs from cold streams into galaxies. Monthly Notices of the Royal Astronomical Society, 2010, 407, 613-631.	1.6	145
29	Initial Conditions For Large Cosmological Simulations. Astrophysical Journal, Supplement Series, 2008, 178, 179-188.	3.0	144
30	The SPHINX Cosmological Simulations of the First Billion Years: the Impact of Binary Stars on Reionizationâ˜.... Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	144
31	Jet-regulated cooling catastrophe. Monthly Notices of the Royal Astronomical Society, 2010, 409, 985-1001.	1.6	141
32	Matter power spectrum and the challenge of percent accuracy. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 047-047.	1.9	137
33	Bimodal gas accretion in the Horizon-MareNostrum galaxy formation simulation. Monthly Notices of the Royal Astronomical Society, 2008, , .	1.6	136
34	A scheme for radiation pressure and photon diffusion with the M1 closure in ramses-rt. Monthly Notices of the Royal Astronomical Society, 2015, 449, 4380-4403.	1.6	134
35	The effects of baryon physics, black holes and active galactic nucleus feedback on the mass distribution in clusters of galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 422, 3081-3091.	1.6	126
36	A simple multigrid scheme for solving the Poisson equation with arbitrary domain boundaries. Journal of Computational Physics, 2011, 230, 4756-4771.	1.9	125

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37	Full-sky weak-lensing simulation with 70 billion particles. Astronomy and Astrophysics, 2009, 497, 335-341.	2.1	120
38	A new method to quantify the effects of baryons on the matter power spectrum. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 049-049.	1.9	120
39	Radiation hydrodynamics with adaptive mesh refinement and application to prestellar core collapse. Astronomy and Astrophysics, 2011, 529, A35.	2.1	119
40	Euclid preparation: II. The <scp>EuclidEmulator</scp> â€“ a tool to compute the cosmology dependence of the nonlinear matter power spectrum. Monthly Notices of the Royal Astronomical Society, 2019, 484, 5509-5529.	1.6	117
41	Protostellar collapse: radiative and magnetic feedbacks onÂsmall-scale fragmentation. Astronomy and Astrophysics, 2010, 510, L3.	2.1	114
42	Dark matter direct detection signals inferred from a cosmological N-body simulation with baryons. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 012-012.	1.9	114
43	A DIVERSITY OF PROGENITORS AND HISTORIES FOR ISOLATED SPIRAL GALAXIES. Astrophysical Journal, 2012, 756, 26.	1.6	114
44	Large-scale galactic turbulence: can self-gravity drive the observed Hâ€ƒi velocity dispersions?. Monthly Notices of the Royal Astronomical Society, 2009, 392, 294-308.	1.6	112
45	A radiative transfer scheme for cosmological reionization based on a local Eddington tensor. Monthly Notices of the Royal Astronomical Society, 2008, 387, 295-307.	1.6	110
46	Coplanar streams, pancakes and angular-momentum exchange in high-z disc galaxies. Monthly Notices of the Royal Astronomical Society, 2012, 422, 1732-1749.	1.6	108
47	Quantifying baryon effects on the matter power spectrum and the weak lensing shear correlation. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 020-020.	1.9	108
48	COMPARING NUMERICAL METHODS FOR ISOTHERMAL MAGNETIZED SUPERSONIC TURBULENCE. Astrophysical Journal, 2011, 737, 13.	1.6	105
49	Cuspâ€“core transformations induced by AGN feedback in the progenitors of cluster galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1947-1954.	1.6	105
50	AGN self-regulation in cooling flow clusters. Monthly Notices of the Royal Astronomical Society, 2007, 376, 1547-1556.	1.6	97
51	Towards a more realistic sink particle algorithm for the ramses code. Monthly Notices of the Royal Astronomical Society, 2014, 445, 4015-4036.	1.6	97
52	Hydrodynamics of galaxy mergers with supermassive black holes: is there a last parsec problem?. Monthly Notices of the Royal Astronomical Society, 2013, 429, 3114-3122.	1.6	96
53	Galaxies that shine: radiation-hydrodynamical simulations of disc galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 451, 34-58.	1.6	95
54	The ATLAS3D project â€“ XXII. Low-efficiency star formation in early-type galaxies: hydrodynamic models and observations. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1914-1927.	1.6	94

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55	Evolution of the mass, size, and star formation rate in high redshift merging galaxies. Astronomy and Astrophysics, 2014, 562, A1.	2.1	94
56	High-redshift major mergers weakly enhance star formation. Monthly Notices of the Royal Astronomical Society, 2017, 465, 1934-1949.	1.6	90
57	Systematic uncertainties in the determination of the local dark matter density. Physical Review D, 2010, 82, .	1.6	89
58	Cosmic Dawn II (CoDa II): a new radiation-hydrodynamics simulation of the self-consistent coupling of galaxy formation and reionization. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4087-4107.	1.6	89
59	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. II. ISOLATED DISK TEST. Astrophysical Journal, 2016, 833, 202.	1.6	88
60	EDGE: the massâ€“metallicity relation as a critical test of galaxy formation physics. Monthly Notices of the Royal Astronomical Society, 2020, 491, 1656-1672.	1.6	87
61	Cosmological MHD simulation of a cooling flow cluster. Astronomy and Astrophysics, 2008, 482, L13-L16.	2.1	86
62	Kinematic dynamos using constrained transport with high order Godunov schemes and adaptive mesh refinement. Journal of Computational Physics, 2006, 218, 44-67.	1.9	83
63	REIONIZATION SIMULATIONS POWERED BY GRAPHICS PROCESSING UNITS. I. ON THE STRUCTURE OF THE ULTRAVIOLET RADIATION FIELD. Astrophysical Journal, 2010, 724, 244-266.	1.6	80
64	The formation of the brightest cluster galaxies in cosmological simulations: the case for active galactic nucleus feedback. Monthly Notices of the Royal Astronomical Society, 2012, 420, 2859-2873.	1.6	76
65	A small-scale dynamo in feedback-dominated galaxies as the origin of cosmic magnetic fields â€“ I. The kinematic phase. Monthly Notices of the Royal Astronomical Society, 2016, 457, 1722-1738.	1.6	72
66	Star cluster formation in a turbulent molecular cloud self-regulated by photoionization feedback. Monthly Notices of the Royal Astronomical Society, 2017, 472, 4155-4172.	1.6	70
67	Analytical Study and Structure of a Stationary Radiative Shock. Astrophysical Journal, Supplement Series, 2000, 127, 245-252.	3.0	69
68	A systematic look at the effects of radiative feedback on disc galaxy formation. Monthly Notices of the Royal Astronomical Society, 2014, 444, 2837-2853.	1.6	69
69	Twoâ€dimensional versus Threeâ€dimensional Supernova Hydrodynamic Instability Growth. Astrophysical Journal, 2000, 528, 989-994.	1.6	68
70	Snap, crackle, pop: sub-grid supernova feedback in AMR simulations of disc galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 466, 11-33.	1.6	66
71	Environmental regulation of cloud and star formation in galactic bars. Monthly Notices of the Royal Astronomical Society, 2015, 454, 3299-3310.	1.6	63
72	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

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73	Euclid preparation: IX. EuclidEmulator2 â€“ power spectrum emulation with massive neutrinos and self-consistent dark energy perturbations. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2840-2869.	1.6	62
74	Disc heating: comparing the Milky Way with cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2011, 415, 2652-2664.	1.6	59
75	How active galactic nucleus feedback and metal cooling shape cluster entropy profiles. Monthly Notices of the Royal Astronomical Society, 2011, 417, 1853-1870.	1.6	57
76	Molecular clouds in the Cosmic Snake normal star-forming galaxy 8 billion years ago. Nature Astronomy, 2019, 3, 1115-1121.	4.2	57
77	Interface imprinting by a rippled shock using an intense laser. Physical Review E, 2001, 63, 055401.	0.8	56
78	Modeling CO emission from hydrodynamic simulations of nearby spirals, starbursting mergers, and high-redshift galaxies. Astronomy and Astrophysics, 2015, 575, A56.	2.1	55
79	3D simulations of supernova remnants evolution including non-linear particle acceleration. Astronomy and Astrophysics, 2010, 509, L10.	2.1	54
80	Baryonic effects for weak lensing. Part I. Power spectrum and covariance matrix. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 019-019.	1.9	54
81	Magnetised winds in dwarf galaxies. Astronomy and Astrophysics, 2010, 523, A72.	2.1	52
82	Baryonic and dark matter distribution in cosmological simulations of spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 447, 1353-1369.	1.6	52
83	FAst STatistics for weak Lensing (FASTLens): fast method for weak lensing statistics and map making. Monthly Notices of the Royal Astronomical Society, 2009, 395, 1265-1279.	1.6	51
84	The biasing of baryons on the cluster mass function and cosmological parameter estimation. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2290-2299.	1.6	51
85	INCORPORATING AMBIPOLAR AND OHMIC DIFFUSION IN THE AMR MHD CODE RAMSES. Astrophysical Journal, Supplement Series, 2012, 201, 24.	3.0	49
86	Efficient early stellar feedback can suppress galactic outflows by reducing supernova clustering. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3882-3915.	1.6	48
87	Scaling supernova hydrodynamics to the laboratory. Physics of Plasmas, 1999, 6, 2065-2071.	0.7	46
88	nIFTy galaxy cluster simulations â€“ II. Radiative models. Monthly Notices of the Royal Astronomical Society, 2016, 459, 2973-2991.	1.6	45
89	A small-scale dynamo in feedback-dominated galaxies â€“ II. The saturation phase and the final magnetic configuration. Monthly Notices of the Royal Astronomical Society, 2017, 471, 2674-2686.	1.6	43
90	GLOBULAR CLUSTER FORMATION WITHIN A COSMOLOGICAL CONTEXT. Astrophysical Journal, 2009, 706, L192-L196.	1.6	43

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91	Protostellar collapse: a comparison between smoothed particle hydrodynamics and adaptative mesh refinement calculations. Astronomy and Astrophysics, 2008, 482, 371-385.	2.1	42
92	Beyond the nuclear starburst? Clustered star formation in major mergers. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1028-1042.	1.6	41
93	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
94	Suppression of star formation in low-mass galaxies caused by the reionization of their local neighbourhood. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1740-1753.	1.6	39
95	A fast, robust, and simple implicit method for adaptive time-stepping on adaptive mesh-refinement grids. Astronomy and Astrophysics, 2014, 563, A11.	2.1	38
96	Grid-Based Hydrodynamics in Astrophysical Fluid Flows. Annual Review of Astronomy and Astrophysics, 2015, 53, 325-364.	8.1	38
97	RAMSES-CH: a new chemodynamical code for cosmological simulations. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 424, L11-L15.	1.2	36
98	A three-phase amplification of the cosmic magnetic field in galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 479, 3343-3365.	1.6	36
99	Impact of Lyman alpha pressure on metal-poor dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 475, 4617-4635.	1.6	35
100	Simulation of the growth of the 3D Rayleigh-Taylor instability in supernova remnants using an expanding reference frame. Astronomy and Astrophysics, 2010, 515, A104.	2.1	34
101	Brightest cluster galaxies in cosmological simulations with adaptive mesh refinement: successes and failures. Monthly Notices of the Royal Astronomical Society, 2014, 443, 1500-1508.	1.6	34
102	PHEW: a parallel segmentation algorithm for three-dimensional AMR datasets. Computational Astrophysics and Cosmology, 2015, 2, .	22.7	34
103	Rhapsody-G simulations I: the cool cores, hot gas and stellar content of massive galaxy clusters. Monthly Notices of the Royal Astronomical Society, 0, , stx001.	1.6	33
104	nIFTY galaxy cluster simulations â€“ III. The similarity and diversity of galaxies and subhaloes. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1096-1116.	1.6	32
105	The combined effect of AGN and supernovae feedback in launching massive molecular outflows in high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 475, 5688-5703.	1.6	32
106	Galactic ionizing photon budget during the epoch of reionization in the Cosmic Dawn II simulation. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4342-4357.	1.6	32
107	Rhapsody-G simulations: galaxy clusters as baryonic closed boxes and the covariance between hot gas and galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1982-1991.	1.6	31
108	A small-scale dynamo in feedback-dominated galaxies â€“ III. Cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2017, 472, 4368-4373.	1.6	31

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109	The Inhomogeneous Reionization Times of Present-day Galaxies. Astrophysical Journal Letters, 2018, 856, L22.	3.0	31
110	Introducing SPHINX-MHD: the impact of primordial magnetic fields on the first galaxies, reionization, and the global 21-cm signal. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1254-1282.	1.6	30
111	Simulating gamma-ray binaries with a relativistic extension of RAMSES. Astronomy and Astrophysics, 2013, 560, A79.	2.1	29
112	Milking the spherical cow â€“ on aspherical dynamics in spherical coordinates. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1366-1379.	1.6	29
113	The nature of high [Oâ€‰<scp>iii</scp>]88â€‰Î¼m/[Câ€‰<scp>ii</scp>]158 Î¼m galaxies in the epoch of reionization: Low carbon abundance and a top-heavy IMF?. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5603-5622.	1.6	29
114	On the dynamics of supermassive black holes in gas-rich, star-forming galaxies: the case for nuclear star cluster co-evolution. Monthly Notices of the Royal Astronomical Society, 2017, 469, 295-313.	1.6	28
115	Temperature map computation for X-ray clusters of galaxies. Astronomy and Astrophysics, 2004, 414, 429-443.	2.1	28
116	Baryonic effects for weak lensing. Part II. Combination with X-ray data and extended cosmologies. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 020-020.	1.9	27
117	The dusty, albeit ultraviolet bright, infancy of galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2010, 403, L84-L88.	1.2	25
118	THE ROLE OF TURBULENCE IN STAR FORMATION LAWS AND THRESHOLDS. Astrophysical Journal, 2014, 784, 112.	1.6	25
119	Rhapsody-G simulations â€“ II. Baryonic growth and metal enrichment in massive galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2016, 459, 4408-4427.	1.6	25
120	Emission from the circumgalactic medium: from cosmological zoom-in simulations to multiwavelength observables. Monthly Notices of the Royal Astronomical Society, 2019, 489, 2417-2438.	1.6	24
121	Forming early-type galaxies without AGN feedback: a combination of merger-driven outflows and inefficient star formation. Monthly Notices of the Royal Astronomical Society, 2020, 492, 1385-1398.	1.6	24
122	Distribution of streaming rates into high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 454, 637-648.	1.6	23
123	Rapid filamentary accretion as the origin of extended thin discs. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4346-4356.	1.6	23
124	Observable signatures of the low-z circumgalactic and intergalactic media: ultraviolet line emission in simulations. Monthly Notices of the Royal Astronomical Society, 2012, 420, 1731-1753.	1.6	22
125	On the origin of surprisingly cold gas discs in galaxies at high redshift. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3266-3275.	1.6	22
126	A simple model for molecular hydrogen chemistry coupled to radiation hydrodynamics. Monthly Notices of the Royal Astronomical Society, 2018, 479, 3206-3226.	1.6	21

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127	aski: full-sky lensing map-making algorithms. Monthly Notices of the Royal Astronomical Society, 2010, 401, 705-726.	1.6	18
128	Globular cluster formation in the Virgo cluster. Monthly Notices of the Royal Astronomical Society, 2014, 442, 2826-2836.	1.6	18
129	Kiloparsec-scale Simulations of Star Formation in Disk Galaxies. IV. Regulation of Galactic Star Formation Rates by Stellar Feedback. Astrophysical Journal, 2017, 841, 82.	1.6	18
130	nIFTy galaxy cluster simulations â€“ V. Investigation of the cluster infall region. Monthly Notices of the Royal Astronomical Society, 2017, 464, 2027-2038.	1.6	16
131	Numerical Methods for Simulating Star Formation. Frontiers in Astronomy and Space Sciences, 2019, 6, .	1.1	16
132	The effect of baryons on the variance and the skewness of the mass distribution in the Universe at small scales. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	1.6	15
133	Cosmological simulations of the same spiral galaxy: the impact of baryonic physics. Monthly Notices of the Royal Astronomical Society, 2020, 501, 62-77.	1.6	15
134	Galaxy evolution: modelling the role of non-thermal pressure in the interstellar medium. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3678-3692.	1.6	14
135	On the origin of the peak of the stellar initial mass function: exploring the tidal screening theory. Monthly Notices of the Royal Astronomical Society, 2020, 492, 4727-4751.	1.6	13
136	Cosmological magnetogenesis: the Biermann battery during the Epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2021, 504, 2346-2359.	1.6	13
137	EDGE: a new approach to suppressing numerical diffusion in adaptive mesh simulations of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1755-1765.	1.6	13
138	The AGORA High-resolution Galaxy Simulations Comparison Project. III. Cosmological Zoom-in Simulation of a Milky Wayâ€“mass Halo. Astrophysical Journal, 2021, 917, 64.	1.6	12
139	Internal dark matter structure of the most massive galaxy clusters. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 473, L69-L73.	1.2	11
140	Estimating the integrated bispectrum from weak lensing maps. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 043-043.	1.9	11
141	Euclid Preparation. XIV. The Complete Calibration of the Colorâ€“Redshift Relation (C3R2) Survey: Data Release 3. Astrophysical Journal, Supplement Series, 2021, 256, 9.	3.0	11
142	Cosmology with One Galaxy?. Astrophysical Journal, 2022, 929, 132.	1.6	10
143	A high order Godunov scheme with constrained transport and adaptive mesh refinement for astrophysical and geophysical MHD. Geophysical and Astrophysical Fluid Dynamics, 2007, 101, 199-225.	0.4	9
144	The loss of the intracluster medium in globular clusters. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1306-1316.	1.6	9

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145	Precision cosmology with baryons: non-radiative hydrodynamics of galaxy groups. Monthly Notices of the Royal Astronomical Society, 2017, 467, 3188-3211.	1.6	7
146	A subgrid turbulent mean field dynamo model for cosmological galaxy formation simulations. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	7
147	Chameleon f(R) gravity on the Virgo cluster scale. Monthly Notices of the Royal Astronomical Society, 2015, 448, 307-327.	1.6	6
148	Towards the complete census of molecular hydrogen in a simulated disc galaxy. Monthly Notices of the Royal Astronomical Society, 2019, , .	1.6	6
149	Indirect dark matter searches: Towards a consistent top-bottom approach for studying the gamma-ray signals and associated backgrounds. Physical Review D, 2012, 86, .	1.6	5
150	Numerical cosmology on the GPU with Enzo and Ramses. Journal of Physics: Conference Series, 2015, 640, 012058.	0.3	5
151	Planetâ€“disc interactions with discontinuous Galerkin methods using GPUs. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1855-1865.	1.6	5
152	Interpreting the cosmic far-infrared background anisotropies using a gas regulator model. Monthly Notices of the Royal Astronomical Society, 2018, 475, 3974-3995.	1.6	5
153	An arbitrary high-order Spectral Difference method for the induction equation. Journal of Computational Physics, 2021, 438, 110327.	1.9	4
154	Infall near clusters of galaxies: comparing gas and dark matter velocity profiles. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3486-3491.	1.6	3
155	The driving mode of shock-driven turbulence. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1782-1800.	1.6	3
156	Hydrodynamical Adaptive Mesh Refinement Simulations of Disk Galaxies. Proceedings of the International Astronomical Union, 2008, 4, 445-452.	0.0	2
157	Turbulence generation by shock interaction with a highly nonuniform medium. Physical Review E, 2022, 105, .	0.8	2
158	Cosmological Simulations using Grid Middleware. , 2007, , .		1
159	Modeling high-redshift galaxies: what can we learn from high and ultra-high resolution hydrodynamical simulations?. Proceedings of the International Astronomical Union, 2009, 5, 248-256.	0.0	1
160	Star formation in galaxy mergers: ISM turbulence, dense gas excess, and scaling relations for disks and starbusts. Proceedings of the International Astronomical Union, 2010, 6, 160-169.	0.0	1
161	Enhancing and inhibiting star formation: high-resolution simulation studies of the impact of cold accretion, mergers and feedback on individual massive galaxies. Proceedings of the International Astronomical Union, 2012, 8, 13-16.	0.0	1
162	Parameter inference with non-linear galaxy clustering: accounting for theoretical uncertainties. Monthly Notices of the Royal Astronomical Society, 2022, 518, 1859-1879.	1.6	1

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163	The Impact of ISM Turbulence, Clustered Star Formation and Feedback on Galaxy Mass Assembly through Cold Flows and Mergers. Proceedings of the International Astronomical Union, 2010, 6, 234-237.	0.0	0
164	Galactic star formation in parsec-scale resolution simulations. Proceedings of the International Astronomical Union, 2010, 6, 487-490.	0.0	0
165	The role of Active Galactic Nuclei feedback in the formation of the brightest cluster galaxies. Proceedings of the International Astronomical Union, 2012, 8, 362-365.	0.0	0
166	Free-floating molecular clumps and gas mixing: hydrodynamic aftermaths of the intraclusterâ€“interstellar medium interaction. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2191-2199.	1.6	0
167	Internal dark matter structure of the most massive galaxy clusters since redshift 1. EPJ Web of Conferences, 2022, 257, 00026.	0.1	0
168	ACACIA: a new method to produce on-the-fly merger trees in the <scp>ramses</scp> code. Monthly Notices of the Royal Astronomical Society, 2021, 510, 959-979.	1.6	0