Volker Springel

List of Publications by Year
in descending order

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438	87,165	419	365
papers	citations	132 h-index	282 g-index

444	444	444	13769
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The cosmological simulation code gadget-2. Monthly Notices of the Royal Astronomical Society, 2005, 364, 1105-1134.	4.4	5,220
2	Simulations of the formation, evolution and clustering of galaxies and quasars. Nature, 2005, 435, 629-636.	27.8	3,801
3	The many lives of active galactic nuclei: cooling flows, black holes and the luminosities and colours of galaxies. Monthly Notices of the Royal Astronomical Society, 2006, 365, 11-28.	4.4	2,994
4	Energy input from quasars regulates the growth and activity of black holes and their host galaxies. Nature, 2005, 433, 604-607.	27.8	2,577
5	Populating a cluster of galaxies - I. Results at ontshape{it}{z}=0. Monthly Notices of the Royal Astronomical Society, 2001, 328, 726-750.	4.4	1,981
6	Modelling feedback from stars and black holes in galaxy mergers. Monthly Notices of the Royal Astronomical Society, 2005, 361, 776-794.	4.4	1,746
7	Cosmological smoothed particle hydrodynamics simulations: a hybrid multiphase model for star formation. Monthly Notices of the Royal Astronomical Society, 2003, 339, 289-311.	4.4	1,737
8	Introducing the Illustris Project: simulating the coevolution of dark and visible matter in the Universe. Monthly Notices of the Royal Astronomical Society, 2014, 444, 1518-1547.	4.4	1,694
9	E pur si muove:Galilean-invariant cosmological hydrodynamical simulations on a moving mesh. Monthly Notices of the Royal Astronomical Society, 2010, 401, 791-851.	4.4	1,613
10	A Unified, Mergerâ€driven Model of the Origin of Starbursts, Quasars, the Cosmic Xâ€Ray Background, Supermassive Black Holes, and Galaxy Spheroids. Astrophysical Journal, Supplement Series, 2006, 163, 1-49.	7.7	1,484
11	The Aquarius Project: the subhaloes of galactic haloes. Monthly Notices of the Royal Astronomical Society, 2008, 391, 1685-1711.	4.4	1,462
12	GADGET: a code for collisionless and gasdynamical cosmological simulations. New Astronomy, 2001, 6, 79-117.	1.8	1,337
13	Simulating galaxy formation with the IllustrisTNG model. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4077-4106.	4.4	1,144
14	First results from the IllustrisTNG simulations: matter and galaxy clustering. Monthly Notices of the Royal Astronomical Society, 2018, 475, 676-698.	4.4	1,035
15	First results from the IllustrisTNG simulations: the stellar mass content of groups and clusters of galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 475, 648-675.	4.4	983
16	Properties of galaxies reproduced by a hydrodynamic simulation. Nature, 2014, 509, 177-182.	27.8	979
17	From dwarf spheroidals to cD galaxies: simulating the galaxy population in a Î›CDM cosmology. Monthly Notices of the Royal Astronomical Society, 2011, 413, 101-131.	4.4	950
18	First results from the IllustrisTNG simulations: the galaxy colour bimodality. Monthly Notices of the Royal Astronomical Society, 2018, 475, 624-647.	4.4	894

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19	The inner structure of Î›CDM haloes - III. Universality and asymptotic slopes. Monthly Notices of the Royal Astronomical Society, 2004, 349, 1039-1051.	4.4	832
20	Introducing the Illustris project: the evolution of galaxy populations across cosmic time. Monthly Notices of the Royal Astronomical Society, 2014, 445, 175-200.	4.4	805
21	The formation history of elliptical galaxies. Monthly Notices of the Royal Astronomical Society, 2006, 366, 499-509.	4.4	798
22	The inner structure of ΛCDM haloes -- I. A numerical convergence study. Monthly Notices of the Royal Astronomical Society, 2003, 338, 14-34.	4.4	767
23	Cosmological smoothed particle hydrodynamics simulations: the entropy equation. Monthly Notices of the Royal Astronomical Society, 2002, 333, 649-664.	4.4	748
24	Resolving cosmic structure formation with the Millennium-II Simulation. Monthly Notices of the Royal Astronomical Society, 2009, 398, 1150-1164.	4.4	747
25	First results from the IllustrisTNG simulations: a tale of two elements â€“ chemical evolution of magnesium and europium. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1206-1224.	4.4	746
26	Simulating galaxy formation with black hole driven thermal and kinetic feedback. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3291-3308.	4.4	725
27	Substructures in hydrodynamical cluster simulations. Monthly Notices of the Royal Astronomical Society, 2009, 399, 497-514.	4.4	724
28	A model for cosmological simulations of galaxy formation physics. Monthly Notices of the Royal Astronomical Society, 2013, 436, 3031-3067.	4.4	711
29	The IllustrisTNG simulations: public data release. Computational Astrophysics and Cosmology, 2019, 6, .	22.7	698
30	A unified model for AGN feedback in cosmological simulations of structure formation. Monthly Notices of the Royal Astronomical Society, 0, 380, 877-900.	4.4	692
31	First results from the IllustrisTNG simulations: radio haloes and magnetic fields. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	643
32	Black Holes in Galaxy Mergers: The Formation of Red Elliptical Galaxies. Astrophysical Journal, 2005, 620, L79-L82.	4.5	642
33	The diversity and similarity of simulated cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2010, 402, 21-34.	4.4	639
34	The statistics of Λ CDM halo concentrations. Monthly Notices of the Royal Astronomical Society, 2007, 381, 1450-1462.	4.4	627
35	The subhalo populations of Î›CDM dark haloes. Monthly Notices of the Royal Astronomical Society, 2004, 355, 819-834.	4.4	553
36	The large-scale structure of the Universe. Nature, 2006, 440, 1137-1144.	27.8	525

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37	Fundamental differences between SPH and grid methods. Monthly Notices of the Royal Astronomical Society, 0, 380, 963-978.	4.4	525
38	The age dependence of halo clustering. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 363, L66-L70.	3.3	522
39	First results from the TNG50 simulation: galactic outflows driven by supernovae and black hole feedback. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3234-3261.	4.4	510
40	Black Holes in Galaxy Mergers: Evolution of Quasars. Astrophysical Journal, 2005, 630, 705-715.	4.5	497
41	The history of star formation in a Â cold dark matter universe. Monthly Notices of the Royal Astronomical Society, 2003, 339, 312-334.	4.4	473
42	The merger rate of galaxies in the Illustris simulation: a comparison with observations and semi-empirical models. Monthly Notices of the Royal Astronomical Society, 2015, 449, 49-64.	4.4	472
43	Galaxy formation in the Planck cosmology â€“ I. Matching the observed evolution of star formation rates, colours and stellar masses. Monthly Notices of the Royal Astronomical Society, 2015, 451, 2663-2680.	4.4	467
44	First results from the TNG50 simulation: the evolution of stellar and gaseous discs across cosmic time. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3196-3233.	4.4	453
45	The Illustris simulation: the evolving population of black holes across cosmic time. Monthly Notices of the Royal Astronomical Society, 2015, 452, 575-596.	4.4	452
46	A Mergerâ€driven Scenario for Cosmological Disk Galaxy Formation. Astrophysical Journal, 2006, 645, 986-1000.	4.5	443
47	Galactic stellar haloes in the CDM model. Monthly Notices of the Royal Astronomical Society, 2010, 406, 744-766.	4.4	443
48	Direct Cosmological Simulations of the Growth of Black Holes and Galaxies. Astrophysical Journal, 2008, 676, 33-53.	4.5	423
49	The illustris simulation: Public data release. Astronomy and Computing, 2015, 13, 12-37.	1.7	412
50	The redshift dependence of the structure of massive Î› cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2008, 387, 536-544.	4.4	408
51	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.	4.4	381
52	SIMULATIONS ON A MOVING MESH: THE CLUSTERED FORMATION OF POPULATION III PROTOSTARS. Astrophysical Journal, 2011, 737, 75.	4.5	375
53	Scaling relations for galaxy clusters in the Millennium-XXL simulation. Monthly Notices of the Royal Astronomical Society, 2012, 426, 2046-2062.	4.4	375
54	Formation of a Spiral Galaxy in a Major Merger. Astrophysical Journal, 2005, 622, L9-L12.	4.5	342

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55	The stellar mass assembly of galaxies in the Illustris simulation: growth by mergers and the spatial distribution of accreted stars. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2371-2390.	4.4	319
56	A Physical Model for the Origin of Quasar Lifetimes. Astrophysical Journal, 2005, 625, L71-L74.	4.5	316
57	X-ray properties of galaxy clusters and groups from a cosmological hydrodynamical simulation. Monthly Notices of the Royal Astronomical Society, 2004, 348, 1078-1096.	4.4	315
58	The Kinematic Structure of Merger Remnants. Astrophysical Journal, 2006, 650, 791-811.	4.5	315
59	Haloes gone MADâ˜…: The Halo-Finder Comparison Project. Monthly Notices of the Royal Astronomical Society, 2011, 415, 2293-2318.	4.4	302
60	Virial Scaling of Massive Dark Matter Halos: Why Clusters Prefer a High Normalization Cosmology. Astrophysical Journal, 2008, 672, 122-137.	4.5	293
61	The Auriga Project: the properties and formation mechanisms of disc galaxies across cosmic time. Monthly Notices of the Royal Astronomical Society, 0, , stx071.	4.4	293
62	Smoothed Particle Hydrodynamics in Astrophysics. Annual Review of Astronomy and Astrophysics, 2010, 48, 391-430.	24.3	291
63	The formation of disc galaxies in high-resolution moving-mesh cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2014, 437, 1750-1775.	4.4	289
64	Moving mesh cosmology: tracing cosmological gas accretion. Monthly Notices of the Royal Astronomical Society, 2013, 429, 3353-3370.	4.4	288
65	Constrained simulations of the magnetic field in the local Universe and the propagation of ultrahigh energy cosmic rays. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 009-009.	5.4	271
66	Formation and evolution of primordial protostellar systems. Monthly Notices of the Royal Astronomical Society, 2012, 424, 399-415.	4.4	271
67	Supermassive black holes and their feedback effects in the IllustrisTNG simulation. Monthly Notices of the Royal Astronomical Society, 2018, 479, 4056-4072.	4.4	270
68	The Fundamental Scaling Relations of Elliptical Galaxies. Astrophysical Journal, 2006, 641, 21-40.	4.5	267
69	Inferring the dark matter power spectrum from the LymanÎ±forest in high-resolution QSO absorption spectra. Monthly Notices of the Royal Astronomical Society, 2004, 354, 684-694.	4.4	254
70	Formation ofzâˆ¼6 Quasars from Hierarchical Galaxy Mergers. Astrophysical Journal, 2007, 665, 187-208.	4.5	253
71	Substructures in cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2004, 348, 333-344.	4.4	251
72	Dwarf galaxies in voids: suppressing star formation with photoheating. Monthly Notices of the Royal Astronomical Society, 2006, 371, 401-414.	4.4	251

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73	A model for cosmological simulations of galaxy formation physics: multi-epoch validation. Monthly Notices of the Royal Astronomical Society, 2014, 438, 1985-2004.	4.4	242
74	The optical morphologies of galaxies in the IllustrisTNG simulation: a comparison to Pan-STARRS observations. Monthly Notices of the Royal Astronomical Society, 2019, 483, 4140-4159.	4.4	236
75	The formation and survival of discs in a Î›CDM universe. Monthly Notices of the Royal Astronomical Society, 2009, 396, 696-708.	4.4	232
76	Simulations of magnetic fields in isolated disc galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 432, 176-193.	4.4	231
77	Improving the convergence properties of the moving-mesh code AREPO. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1134-1143.	4.4	231
78	The satellite population of the Milky Way in a ÂCDM universe. Monthly Notices of the Royal Astronomical Society, 2002, 335, L84-L88.	4.4	229
79	COLD FLOWS AND THE FIRST QUASARS. Astrophysical Journal Letters, 2012, 745, L29.	8.3	219
80	The Evolution of theMBHâ€“*f* Relation. Astrophysical Journal, 2006, 641, 90-102.	4.5	217
81	HELIUM-IGNITED VIOLENT MERGERS AS A UNIFIED MODEL FOR NORMAL AND RAPIDLY DECLINING TYPE Ia SUPERNOVAE. Astrophysical Journal Letters, 2013, 770, L8.	8.3	217
82	Galaxiesï¿½ï¿½intergalactic medium interaction calculation ï¿½ï¿½ I. Galaxy formation as a function of large-scale environment. Monthly Notices of the Royal Astronomical Society, 2009, 399, 1773-1794.	4.4	216
83	Detecting shock waves in cosmological smoothed particle hydrodynamics simulations. Monthly Notices of the Royal Astronomical Society, 2006, 367, 113-131.	4.4	214
84	Weakly Self-interacting Dark Matter and the Structure of Dark Halos. Astrophysical Journal, 2000, 544, L87-L90.	4.5	210
85	Modelling star formation and feedback in simulations of interacting galaxies. Monthly Notices of the Royal Astronomical Society, 2000, 312, 859-879.	4.4	208
86	Prospects for detecting supersymmetric dark matter in the Galactic halo. Nature, 2008, 456, 73-76.	27.8	208
87	Disk Galaxy Formation in a Î› Cold Dark Matter Universe. Astrophysical Journal, 2004, 606, 32-45.	4.5	205
88	The massâ€“concentrationâ€“redshift relation of cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2014, 441, 378-388.	4.4	204
89	Effects of supernova feedback on the formation of galaxy discs. Monthly Notices of the Royal Astronomical Society, 2008, 389, 1137-1149.	4.4	203
90	Phase-space structure in the local dark matter distribution and its signature in direct detection experiments. Monthly Notices of the Royal Astronomical Society, 2009, 395, 797-811.	4.4	202

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91	The star formation main sequence and stellar mass assembly of galaxies in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3548-3563.	4.4	201
92	Feedback and metal enrichment in cosmological SPH simulations ï¿½ï¿½ II. A multiphase model with supernova energy feedback. Monthly Notices of the Royal Astronomical Society, 2006, 371, 1125-1139.	4.4	196
93	Simulations of the galaxy population constrained by observations from z = 3 to the present day: implications for galactic winds and the fate of their ejecta. Monthly Notices of the Royal Astronomical Society, 2013, 431, 3373-3395.	4.4	196
94	The AREPO Public Code Release. Astrophysical Journal, Supplement Series, 2020, 248, 32.	7.7	196
95	An analytical model for the history of cosmic star formation. Monthly Notices of the Royal Astronomical Society, 2003, 341, 1253-1267.	4.4	195
96	The size evolution of star-forming and quenched galaxies in the IllustrisTNG simulation. Monthly Notices of the Royal Astronomical Society, 2018, 474, 3976-3996.	4.4	195
97	Galactic winds driven by cosmic ray streaming. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2374-2396.	4.4	189
98	The formation of massive, compact galaxies at zÂ=Â2 in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2015, 449, 361-372.	4.4	187
99	SUBSTRUCTURE DEPLETION IN THE MILKY WAY HALO BY THE DISK. Astrophysical Journal, 2010, 709, 1138-1147.	4.5	186
100	HydrodynamicalN-body simulations of coupled dark energy cosmologies. Monthly Notices of the Royal Astronomical Society, 2010, 403, 1684-1702.	4.4	185
101	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.	4.4	185
102	The speed of the â€˜bulletâ€™ in the merging galaxy cluster 1E0657â˜’56. Monthly Notices of the Royal Astronomical Society, 0, 380, 911-925.	4.4	181
103	Magnetohydrodynamics on an unstructured moving grid. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1392-1401.	4.4	179
104	Hydrodynamic Simulations of the Sunyaevâ€Zeldovich Effect(s). Astrophysical Journal, 2001, 549, 681-687.	4.5	176
105	The Lyman a forest opacity and the metagalactic hydrogen ionization rate at z Â 2-4. Monthly Notices of the Royal Astronomical Society, 2005, 357, 1178-1188.	4.4	176
106	The star formation activity of IllustrisTNG galaxies: main sequence, UVJ diagram, quenched fractions, and systematics. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4817-4840.	4.4	176
107	Simulations of Cosmic Chemical Enrichment. Monthly Notices of the Royal Astronomical Society, 2007, 376, 1465-1479.	4.4	174
108	GALACTIC ANGULAR MOMENTUM IN THE ILLUSTRIS SIMULATION: FEEDBACK AND THE HUBBLE SEQUENCE. Astrophysical Journal Letters, 2015, 804, L40.	8.3	174

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109	Hydrodynamical simulations of cluster formation with central AGN heating. Monthly Notices of the Royal Astronomical Society, 2006, 366, 397-416.	4.4	170
110	Simulations of AGN Feedback in Galaxy Clusters and Groups: Impact on Gas Fractions and the L _X - T Scaling Relation. Astrophysical Journal, 2008, 687, L53-L56.	4.5	169
111	Moving mesh cosmology: numerical techniques and global statistics. Monthly Notices of the Royal Astronomical Society, 2012, 425, 3024-3057.	4.4	169
112	The Influence of Baryons on the Clustering of Matter and Weak-Lensing Surveys. Astrophysical Journal, 2006, 640, L119-L122.	4.5	168
113	Dark matter annihilation in the halo of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2003, 345, 1313-1322.	4.4	167
114	Feedback and metal enrichment in cosmological smoothed particle hydrodynamics simulations â€" I. A model for chemical enrichment. Monthly Notices of the Royal Astronomical Society, 2005, 364, 552-564.	4.4	161
115	The Phoenix Project: the dark side of rich Galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2169-2186.	4.4	161
116	The mass profile and accretion history of cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1103-1113.	4.4	161
117	Comparing AMR and SPH Cosmological Simulations. I. Dark Matter and Adiabatic Simulations. Astrophysical Journal, Supplement Series, 2005, 160, 1-27.	7.7	160
118	Shaping the galaxy stellar mass function with supernova- and AGN-driven winds. Monthly Notices of the Royal Astronomical Society, 2013, 428, 2966-2979.	4.4	157
119	Galaxy morphology and star formation in the Illustris Simulation atzÂ=Â0. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1886-1908.	4.4	155
120	Cosmic ray feedback in hydrodynamical simulations of galaxy formation. Astronomy and Astrophysics, 2008, 481, 33-63.	5.1	155
121	CO-dark gas and molecular filaments in Milky Way-type galaxies. Monthly Notices of the Royal Astronomical Society, 2014, 441, 1628-1645.	4.4	153
122	Tidal tailspin cold dark matter cosmologies. Monthly Notices of the Royal Astronomical Society, 1999, 307, 162-178.	4.4	151
123	Cosmological simulations of the circumgalactic medium with 1â€‰kpc resolution: enhanced Hâ€‰<scp>i</scp> column densities. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 482, L85-L89.	3.3	149
124	THE UNORTHODOX ORBITS OF SUBSTRUCTURE HALOS. Astrophysical Journal, 2009, 692, 931-941.	4.5	145
125	Determining the Properties and Evolution of Red Galaxies from the Quasar Luminosity Function. Astrophysical Journal, Supplement Series, 2006, 163, 50-79.	7.7	145
126	Moving mesh cosmology: the hydrodynamics of galaxy formation. Monthly Notices of the Royal Astronomical Society, 2012, 424, 2999-3027.	4.4	144

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127	Simulating the Sunyaevâ€Zeldovich Effect(s): Including Radiative Cooling and Energy Injection by Galactic Winds. Astrophysical Journal, 2002, 579, 16-22.	4.5	141
128	Universal structure of dark matter haloes over a mass range of 20 orders of magnitude. Nature, 2020, 585, 39-42.	27.8	140
129	The shape of the gravitational potential in cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2007, 377, 50-62.	4.4	139
130	Galactic Centre stellar winds and Sgr A* accretion. Monthly Notices of the Royal Astronomical Society, 2006, 366, 358-372.	4.4	138
131	Simulations of star formation in a gaseous disc around Sgr A* - a failed active galactic nucleus. Monthly Notices of the Royal Astronomical Society, 2007, 379, 21-33.	4.4	138
132	Structure finding in cosmological simulations: the state of affairs. Monthly Notices of the Royal Astronomical Society, 2013, 435, 1618-1658.	4.4	138
133	Gamma Rays from Intergalactic Shocks. Astrophysical Journal, 2003, 585, 128-150.	4.5	138
134	THE SPIN AND ORIENTATION OF DARK MATTER HALOS WITHIN COSMIC FILAMENTS. Astrophysical Journal, 2009, 706, 747-761.	4.5	137
135	Matter power spectrum and the challenge of percent accuracy. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 047-047.	5.4	137
136	Simulating cosmic ray physics on a moving mesh. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4500-4529.	4.4	137
137	Subsonic turbulence in smoothed particle hydrodynamics and moving-mesh simulations. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2558-2578.	4.4	136
138	Modified-Gravity-gadget: a new code for cosmological hydrodynamical simulations of modified gravity models. Monthly Notices of the Royal Astronomical Society, 2013, 436, 348-360.	4.4	135
139	Quenching and ram pressure stripping of simulated Milky Way satellite galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 478, 548-567.	4.4	135
140	The role of mergers and halo spin in shaping galaxy morphology. Monthly Notices of the Royal Astronomical Society, 2017, 467, 3083-3098.	4.4	134
141	Simulating cosmic rays in clusters of galaxies â€“ II. A unified scheme for radio haloes and relics with predictions of the Î³-ray emission. Monthly Notices of the Royal Astronomical Society, 2008, 385, 1211-1241.	4.4	133
142	The abundance, distribution, and physical nature of highly ionized oxygen Oâ€‰vi, Oâ€‰vii, and Oâ€‰viii in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2018, 477, 450-479.	4.4	133
143	The shape of dark matter haloes in the Aquarius simulations: evolution and memory. Monthly Notices of the Royal Astronomical Society, 2011, 416, 1377-1391.	4.4	132
144	Subhaloes going Notts: the subhalo-finder comparison project. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1200-1214.	4.4	132

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145	Vertical disc heating in Milky Way-sized galaxies in a cosmological context. Monthly Notices of the Royal Astronomical Society, 2016, 459, 199-219.	4.4	132
146	Black Hole Growth and Activity in a Î› Cold Dark Matter Universe. Astrophysical Journal, 2003, 593, 56-68.	4.5	131
147	Feedback and the structure of simulated galaxies at redshift z= 2. Monthly Notices of the Royal Astronomical Society, 2010, 409, 1541-1556.	4.4	131
148	Growing the first bright quasars in cosmological simulations of structure formation. Monthly Notices of the Royal Astronomical Society, 2009, 400, 100-122.	4.4	130
149	Simulating cosmic structure formation with the <scp>gadget</scp>-4 code. Monthly Notices of the Royal Astronomical Society, 2021, 506, 2871-2949.	4.4	130
150	Assembly history and structure of galactic cold dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2011, 413, 1373-1382.	4.4	125
151	Luminosityâ€dependent Quasar Lifetimes: A New Interpretation of the Quasar Luminosity Function. Astrophysical Journal, 2005, 630, 716-720.	4.5	125
152	HYDRODYNAMIC MOVING-MESH SIMULATIONS OF THE COMMON ENVELOPE PHASE IN BINARY STELLAR SYSTEMS. Astrophysical Journal Letters, 2016, 816, L9.	8.3	123
153	The evolution of the mass-metallicity relation and its scatter in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	123
154	GALACTIC WINDS DRIVEN BY ISOTROPIC AND ANISOTROPIC COSMIC-RAY DIFFUSION IN DISK GALAXIES. Astrophysical Journal Letters, 2016, 824, L30.	8.3	122
155	The population of Milky Way satellites in the Î› cold dark matter cosmology. Monthly Notices of the Royal Astronomical Society, 2011, 417, 1260-1279.	4.4	121
156	MAGNETIC FIELDS IN COSMOLOGICAL SIMULATIONS OF DISK GALAXIES. Astrophysical Journal Letters, 2014, 783, L20.	8.3	121
157	The impact of feedback on cosmological gas accretion. Monthly Notices of the Royal Astronomical Society, 2015, 448, 59-74.	4.4	120
158	Magnetic field formation in the Milky Way like disc galaxies of the Auriga project. Monthly Notices of the Royal Astronomical Society, 2017, 469, 3185-3199.	4.4	120
159	Baryons in the Cosmic Web of IllustrisTNG â€“ I: gas in knots, filaments, sheets, and voids. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3766-3787.	4.4	120
160	Simulating cosmic rays in clusters of galaxies - I. Effects on the Sunyaev-Zel'dovich effect and the X-ray emission. Monthly Notices of the Royal Astronomical Society, 2007, 378, 385-408.	4.4	119
161	Halo mass and assembly history exposed in the faint outskirts: the stellar and dark matter haloes of Illustris galaxies. Monthly Notices of the Royal Astronomical Society, 2014, 444, 237-249.	4.4	117
162	The inner structure of Î›CDM haloes â€“ II. Halo mass profiles and low surface brightness galaxy rotation curves. Monthly Notices of the Royal Astronomical Society, 2004, 355, 794-812.	4.4	116

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163	Thermal Conduction in Simulated Galaxy Clusters. Astrophysical Journal, 2004, 606, L97-L100.	4.5	116
164	Moving-mesh cosmology: characteristics of galaxies and haloes. Monthly Notices of the Royal Astronomical Society, 2012, 425, 2027-2048.	4.4	116
165	THE ROLE OF COSMIC-RAY PRESSURE IN ACCELERATING GALACTIC OUTFLOWS. Astrophysical Journal Letters, 2016, 827, L29.	8.3	113
166	The Auriga stellar haloes: connecting stellar population properties with accretion and merging history. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2589-2616.	4.4	113
167	Simulations of ram-pressure stripping in galaxy-cluster interactions. Astronomy and Astrophysics, 2016, 591, A51.	5.1	112
168	Morphology and star formation in IllustrisTNG: the build-up of spheroids and discs. Monthly Notices of the Royal Astronomical Society, 2019, 487, 5416-5440.	4.4	109
169	Following the flow: tracer particles in astrophysical fluid simulations. Monthly Notices of the Royal Astronomical Society, 2013, 435, 1426-1442.	4.4	107
170	There's no place like home? Statistics of Milky Way-mass dark matter haloes. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	106
171	Synthetic galaxy images and spectra from the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2015, 447, 2753-2771.	4.4	106
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