Volker Springel

List of Publications by Year in descending order

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438 papers	87,165 citations	418 132 h-index	364 282 g-index
444 all docs	444 docs citations	444 times ranked	13769 citing authors

#	Article	IF	Citations
1	Spectrally resolved cosmic rays â€“ II. Momentum-dependent cosmic ray diffusion drives powerful galactic winds. Monthly Notices of the Royal Astronomical Society, 2022, 510, 3917-3938.	1.6	30
2	High-redshift predictions from IllustrisTNG â€“ III. Infrared luminosity functions, obscured star formation, and dust temperature of high-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5560-5578.	1.6	26
3	The<scp>thesan</scp>project: properties of the intergalactic medium and its connection to reionization-era galaxies. Monthly Notices of the Royal Astronomical Society, 2022, 512, 4909-4933.	1.6	44
4	The evolution of the barred galaxy population in the TNG50 simulation. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5339-5357.	1.6	26
5	Galactic angular momentum in the IllustrisTNG simulation â€“ I. Connection to morphology, halo spin, and black hole mass. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5978-5994.	1.6	21
6	The<scp>thesan</scp>project: Lyman-Î± emission and transmission during the Epoch of Reionization. Monthly Notices of the Royal Astronomical Society, 2022, 512, 3243-3265.	1.6	36
7	Formation and fate of low-metallicity stars in TNG50. Monthly Notices of the Royal Astronomical Society, 2022, 512, 3602-3615.	1.6	4
8	LYRA â€“ II. Cosmological dwarf galaxy formation with inhomogeneous Population III enrichment. Monthly Notices of the Royal Astronomical Society, 2022, 513, 1372-1385.	1.6	17
9	Introducing the <scp>thesan</scp> project: radiation-magnetohydrodynamic simulations of the epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2022, 511, 4005-4030.	1.6	88
10	Apostleâ€“Auriga: effects of different subgrid models on the baryon cycle around Milky Way-mass galaxies. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3113-3138.	1.6	12
11	The effects of AGN feedback on the structural and dynamical properties of Milky Way-mass galaxies in cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2022, 513, 3768-3787.	1.6	14
12	Disc instability and bar formation: view from the IllustrisTNG simulations. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1006-1020.	1.6	11
13	Early-type galaxy density profiles from IllustrisTNG â€“ III. Effects on outer kinematic structure. Monthly Notices of the Royal Astronomical Society, 2022, 513, 6134-6151.	1.6	3
14	The <scp>thesan</scp> project: predictions for multitracer line intensity mapping in the epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3857-3878.	1.6	31
15	Simulating cold shear flows on a moving mesh. Monthly Notices of the Royal Astronomical Society, 2022, 515, 525-542.	1.6	6
16	<tt>frost</tt>: a momentum-conserving CUDA implementation of a hierarchical fourth-order forward symplectic integrator. Monthly Notices of the Royal Astronomical Society, 2021, 502, 5546-5562.	1.6	13
17	Magnetogenesis around the first galaxies: the impact of different field seeding processes on galaxy formation. Monthly Notices of the Royal Astronomical Society, 2021, 502, 5726-5744.	1.6	23
18	The TNG50 Simulation: Highly-Resolved Galaxies in a Large Cosmological Volume to the Present Day. , 2021, , 5-22.		0

#	Article	IF	Citations
19	Submillimetre galaxies in cosmological hydrodynamical simulations â€“ an opportunity for constraining feedback models. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2922-2933.	1.6	20
20	Connecting turbulent velocities and magnetic fields in galaxy cluster simulations with active galactic nuclei jets. Monthly Notices of the Royal Astronomical Society, 2021, 503, 1327-1344.	1.6	13
21	Hot and counter-rotating star-forming disc galaxies in IllustrisTNG and their real-world counterparts. Monthly Notices of the Royal Astronomical Society, 2021, 503, 726-742.	1.6	11
22	A Tidally Induced Global Corrugation Pattern in an External Disk Galaxy Similar to the Milky Way. Astrophysical Journal, 2021, 908, 27.	1.6	13
23	The stellar halos of ETGs in the IllustrisTNG simulations. Astronomy and Astrophysics, 2021, 647, A95.	2.1	34
24	Morphological evolution of supermassive black hole merger hosts and multimessenger signatures. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3629-3642.	1.6	10
25	Anisotropic satellite galaxy quenching modulated by black hole activity. Nature, 2021, 594, 187-190.	13.7	27
26	Revisiting the tension between fast bars and the Î›CDM paradigm. Astronomy and Astrophysics, 2021, 650, L16.	2.1	38
27	Structure formation in large-volume cosmological simulations of fuzzy dark matter: impact of the non-linear dynamics. Monthly Notices of the Royal Astronomical Society, 2021, 506, 2603-2618.	1.6	52
28	Simulating cosmic structure formation with the <scp>gadget</scp>-4 code. Monthly Notices of the Royal Astronomical Society, 2021, 506, 2871-2949.	1.6	130
29	Spatially resolved star formation and inside-out quenching in the TNG50 simulation and 3D-HST observations. Monthly Notices of the Royal Astronomical Society, 2021, 508, 219-235.	1.6	56
30	The abundance of satellites around Milky Way- and M31-like galaxies with the TNG50 simulation: a matter of diversity. Monthly Notices of the Royal Astronomical Society, 2021, 507, 4211-4240.	1.6	41
31	Determining the full satellite population of a Milky Way-mass halo in a highly resolved cosmological hydrodynamic simulation. Monthly Notices of the Royal Astronomical Society, 2021, 507, 4953-4967.	1.6	42
32	The cumulative star formation histories of dwarf galaxies with TNG50. I: environment-driven diversity and connection to quenching. Monthly Notices of the Royal Astronomical Society, 2021, 508, 1652-1674.	1.6	32
33	X-ray bubbles in the circumgalactic medium of TNG50 Milky Way- and M31-like galaxies: signposts of supermassive black hole activity. Monthly Notices of the Royal Astronomical Society, 2021, 508, 4667-4695.	1.6	36
34	From large-scale environment to CGM angular momentum to star-forming activities â€“ I. Star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3148-3162.	1.6	17
35	Thermal Instabilities and Shattering in the High-redshift WHIM: Convergence Criteria and Implications for Low-metallicity Strong H i Absorbers. Astrophysical Journal, 2021, 923, 115.	1.6	16
36	High order direct Arbitrary-Lagrangian-Eulerian schemes on moving Voronoi meshes with topology changes. Journal of Computational Physics, 2020, 407, 109167.	1.9	59

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37	Resolving small-scale cold circumgalactic gas in TNG50. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2391-2414.	1.6	100
38	Neutron star mergers and rare core-collapse supernovae as sources of r-process enrichment in simulated galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4867-4883.	1.6	51
39	The fate of disc galaxies in IllustrisTNG clusters. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2673-2703.	1.6	53
40	Magnetizing the circumgalactic medium of disc galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3125-3137.	1.6	40
41	Universal structure of dark matter haloes over a mass range of 20 orders of magnitude. Nature, 2020, 585, 39-42.	13.7	140
42	The <scp>hestia</scp> project: simulations of the Local Group. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2968-2983.	1.6	56
43	The effects of cosmic rays on the formation of Milky Way-mass galaxies in a cosmological context. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1712-1737.	1.6	64
44	Ejective and preventative: the IllustrisTNG black hole feedback and its effects on the thermodynamics of the gas within and around galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 499, 768-792.	1.6	100
45	Joint galaxyâ€“galaxy lensing and clustering constraints on galaxy formation. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5804-5833.	1.6	11
46	Powering galactic superwinds with small-scale AGN winds. Monthly Notices of the Royal Astronomical Society, 2020, 497, 5229-5255.	1.6	48
47	High-redshift JWST predictions from IllustrisTNG: II. Galaxy line and continuum spectral indices and dust attenuation curves. Monthly Notices of the Royal Astronomical Society, 2020, 495, 4747-4768.	1.6	31
48	Early-type galaxy density profiles from IllustrisTNG â€“ I. Galaxy correlations and the impact of baryons. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5188-5215.	1.6	26
49	X-ray signatures of black hole feedback: hot galactic atmospheres in IllustrisTNG and X-ray observations. Monthly Notices of the Royal Astronomical Society, 2020, 494, 549-570.	1.6	44
50	The AREPO Public Code Release. Astrophysical Journal, Supplement Series, 2020, 248, 32.	3.0	196
51	Redshift evolution of the Fundamental Plane relation in the IllustrisTNG simulation. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5930-5939.	1.6	12
52	High-redshift JWST predictions from IllustrisTNG: dust modelling and galaxy luminosity functions. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5167-5201.	1.6	99
53	The stellar halos of ETGs in the IllustrisTNG simulations: The photometric and kinematic diversity of galaxies at large radii. Astronomy and Astrophysics, 2020, 641, A60.	2.1	33
54	Simulating the interstellar medium of galaxies with radiative transfer, non-equilibrium thermochemistry, and dust. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5732-5748.	1.6	27

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55	EXAMAG: Towards Exascale Simulations of the Magnetic Universe. Lecture Notes in Computational Science and Engineering, 2020, , 331-350.	0.1	0
56	Shattering of Cosmic Sheets due to Thermal Instabilities: A Formation Channel for Metal-free Lyman Limit Systems. Astrophysical Journal Letters, 2019, 881, L20.	3.0	22
57	The IllustrisTNG simulations: public data release. Computational Astrophysics and Cosmology, 2019, 6, .	22.7	698
58	Morphology and star formation in IllustrisTNG: the build-up of spheroids and discs. Monthly Notices of the Royal Astronomical Society, 2019, 487, 5416-5440.	1.6	109
59	The diversity of the circumgalactic medium around z = 0 Milky Way-mass galaxies from the Auriga simulations. Monthly Notices of the Royal Astronomical Society, 2019, 488, 135-152.	1.6	16
60	Separate Universe simulations with IllustrisTNG: baryonic effects on power spectrum responses and higher-order statistics. Monthly Notices of the Royal Astronomical Society, 2019, 488, 2079-2092.	1.6	39
61	Photometric and kinematic misalignments and their evolution among fast and slow rotators in the illustris simulation. Monthly Notices of the Royal Astronomical Society, 2019, 489, 534-547.	1.6	1
62	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.	1.6	453
63	Simulating the interstellar medium and stellar feedback on a moving mesh: implementation and isolated galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 489, 4233-4260.	1.6	72
64	Revealing the galaxyâ€“halo connection in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5693-5711.	1.6	59
65	Spin evolution and feedback of supermassive black holes in cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4133-4153.	1.6	36
66	Dark matter halo shapes in the Auriga simulations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4877-4888.	1.6	33
67	Gas accretion and galactic fountain flows in the Auriga cosmological simulations: angular momentum and metal redistribution. Monthly Notices of the Royal Astronomical Society, 2019, 490, 4786-4803.	1.6	69
68	Early-type galaxy density profiles from IllustrisTNG â€“ II. Evolutionary trend of the total density profile. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5722-5738.	1.6	19
69	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.	1.6	510
70	A study of stellar orbit fractions: simulated IllustrisTNG galaxies compared to CALIFA observations. Monthly Notices of the Royal Astronomical Society, 2019, 489, 842-854.	1.6	19
71	Enhancing AGN efficiency and cool-core formation with anisotropic thermal conduction. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3003-3013.	1.6	22
72	A Quantification of the Butterfly Effect in Cosmological Simulations and Implications for Galaxy Scaling Relations. Astrophysical Journal, 2019, 871, 21.	1.6	65

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73	The Sunyaevâ€“Zelâ€™dovich Effect of Simulated Jet-inflated Bubbles in Clusters. Astrophysical Journal Letters, 2019, 872, L8.	3.0	13
74	No cores in dark matter-dominated dwarf galaxies with bursty star formation histories. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4790-4804.	1.6	62
75	The TNG50 Simulation of the IllustrisTNG Project: Bridging the Gap Between Large Cosmological Volumes and Resolved Galaxies. , 2019, , 5-20.		0
76	Hydrodynamical moving-mesh simulations of the tidal disruption of stars by supermassive black holes. Monthly Notices of the Royal Astronomical Society, 2019, 487, 981-992.	1.6	31
77	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.	1.6	120
78	The Auriga stellar haloes: connecting stellar population properties with accretion and merging history. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2589-2616.	1.6	113
79	High-order magnetohydrodynamics for astrophysics with an adaptive mesh refinement discontinuous Galerkin scheme. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4209-4246.	1.6	24
80	<scp>arepo-rt</scp>: radiation hydrodynamics on a moving mesh. Monthly Notices of the Royal Astronomical Society, 2019, 485, 117-149.	1.6	69
81	Orbit properties of massive prolate galaxies in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2019, 483, 3048-3059.	1.6	3
82	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.	1.6	176
83	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.	1.2	149
84	Linking galaxy structural properties and star formation activity to black hole activity with IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2019, 484, 4413-4443.	1.6	59
85	The origin of galactic metal-rich stellar halo components with highly eccentric orbits. Monthly Notices of the Royal Astronomical Society, 2019, 484, 4471-4483.	1.6	89
86	Ultra-diffuse galaxies in the Auriga simulations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5182-5195.	1.6	55
87	Simulating a metallicity-dependent initial mass function: consequences for feedback and chemical abundances. Monthly Notices of the Royal Astronomical Society, 2019, 482, 118-125.	1.6	24
88	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.	1.6	236
89	The modified gravity light-cone simulation project â€“ I. Statistics of matter and halo distributions. Monthly Notices of the Royal Astronomical Society, 2019, 483, 790-805.	1.6	26
90	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.	1.6	133

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91	First results from the IllustrisTNG simulations: the galaxy colour bimodality. Monthly Notices of the Royal Astronomical Society, 2018, 475, 624-647.	1.6	894
92	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.	1.6	983
93	First results from the IllustrisTNG simulations: matter and galaxy clustering. Monthly Notices of the Royal Astronomical Society, 2018, 475, 676-698.	1.6	1,035
94	Simulating galaxy formation with the IllustrisTNG model. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4077-4106.	1.6	1,144
95	The uniformity and time-invariance of the intra-cluster metal distribution in galaxy clusters from the IllustrisTNG simulations. Monthly Notices of the Royal Astronomical Society, 2018, 474, 2073-2093.	1.6	71
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.	1.6	195
97	Black Hole Formation and Fallback during the Supernova Explosion of a 40 M_{âŠ™} Star. Astrophysical Journal Letters, 2018, 852, L19.	3.0	75
98	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.	1.6	746
99	Non-ideal magnetohydrodynamics on a moving mesh. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2476-2492.	1.6	14
100	Merger-induced metallicity dilution in cosmological galaxy formation simulations. Monthly Notices of the Royal Astronomical Society, 2018, 479, 3381-3392.	1.6	54
101	Simulations of the dynamics of magnetized jets and cosmic rays in galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2878-2900.	1.6	67
102	The fraction of dark matter within galaxies from the IllustrisTNG simulations. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1950-1975.	1.6	97
103	Supermassive black holes and their feedback effects in the IllustrisTNG simulation. Monthly Notices of the Royal Astronomical Society, 2018, 479, 4056-4072.	1.6	270
104	A census of cool-core galaxy clusters in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1809-1831.	1.6	68
105	Quenching and ram pressure stripping of simulated Milky Way satellite galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 478, 548-567.	1.6	135
106	Faraday rotation maps of disc galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 481, 4410-4418.	1.6	44
107	Aurigaia: mock Gaia DR2 stellar catalogues from the auriga cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1726-1743.	1.6	44
108	The origin and properties of massive prolate galaxies in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2018, 473, 1489-1511.	1.6	40

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109	Origin of chemically distinct discs in the Auriga cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2018, 474, 3629-3639.	1.6	97
110	Similar star formation rate and metallicity variability time-scales drive the fundamental metallicity relation. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 477, L16-L20.	1.2	75
111	The dependence of cosmic ray-driven galactic winds on halo mass. Monthly Notices of the Royal Astronomical Society, 2018, 475, 570-584.	1.6	65
112	Chemical pre-processing of cluster galaxies over the past 10 billion years in the IllustrisTNG simulations. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 477, L35-L39.	1.2	21
113	Formation of a Malin 1 analogue in IllustrisTNG by stimulated accretion. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 480, L18-L22.	1.2	27
114	On the relevance of chaos for halo stars in the solar neighbourhood II. Monthly Notices of the Royal Astronomical Society, 2018, 478, 4052-4067.	1.6	15
115	Baryonic impact on the dark matter orbital properties of Milky Way-sized haloes. Monthly Notices of the Royal Astronomical Society, 2017, 466, 3876-3886.	1.6	21
116	Constructing stable 3D hydrodynamical models of giant stars. Astronomy and Astrophysics, 2017, 599, A5.	2.1	46
117	Simulating cosmic ray physics on a moving mesh. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4500-4529.	1.6	137
118	Moving-mesh Simulations of Star-forming Cores in Magneto-gravo-turbulence. Astrophysical Journal, 2017, 838, 40.	1.6	69
119	Increasing Black Hole Feedback-induced Quenching with Anisotropic Thermal Conduction. Astrophysical Journal Letters, 2017, 837, L18.	3.0	40
120	Simulating galaxy formation with black hole driven thermal and kinetic feedback. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3291-3308.	1.6	725
121	Simulating Gamma-Ray Emission in Star-forming Galaxies. Astrophysical Journal Letters, 2017, 847, L13.	3.0	45
122	Cosmic ray feedback in galaxies and active galactic nuclei. AIP Conference Proceedings, 2017, , .	0.3	2
123	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.	1.6	120
124	Probing the Hot X-Ray Corona around the Massive Spiral Galaxy, NGC 6753, Using Deep XMM-Newton Observations. Astrophysical Journal, 2017, 850, 98.	1.6	49
125	The role of mergers and halo spin in shaping galaxy morphology. Monthly Notices of the Royal Astronomical Society, 2017, 467, 3083-3098.	1.6	134
126	Rotation curve fitting and its fatal attraction to cores in realistically simulated galaxy observations. Monthly Notices of the Royal Astronomical Society, 2017, 466, 63-87.	1.6	42

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127	Angular momentum properties of haloes and their baryon content in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2017, 466, 1625-1647.	1.6	80
128	Simulating the interaction of jets with the intracluster medium. Monthly Notices of the Royal Astronomical Society, 2017, 470, 4530-4546.	1.6	74
129	Intrinsic alignments of galaxies in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2017, 468, 790-823.	1.6	55
130	The unorthodox evolution of major merger remnants into star-forming spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 470, 3946-3958.	1.6	62
131	Unveiling the Role of the Magnetic Field at the Smallest Scales of Star Formation. Astrophysical Journal Letters, 2017, 842, L9.	3.0	66
132	Lessons from the Auriga discs: the hunt for the Milky Way's ex situ disc is not yet over. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3722-3733.	1.6	46
133	Warps and waves in the stellar discs of the Auriga cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2017, 465, 3446-3460.	1.6	79
134	Properties of Hâ€‰i discs in the Auriga cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2017, 466, 3859-3875.	1.6	50
135	The inner structure of early-type galaxies in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2017, 469, 1824-1848.	1.6	62
136	Simulations of ram-pressure stripping in galaxy-cluster interactions. Astronomy and Astrophysics, 2016, 591, A51.	2.1	112
137	Magnetic field amplification during the common envelope phase. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 462, L121-L125.	1.2	50
138	GALACTIC WINDS DRIVEN BY ISOTROPIC AND ANISOTROPIC COSMIC-RAY DIFFUSION IN DISK GALAXIES. Astrophysical Journal Letters, 2016, 824, L30.	3.0	122
139	Baryonic impact on the dark matter distribution in Milky Way-sized galaxies and their satellites. Monthly Notices of the Royal Astronomical Society, 2016, 458, 1559-1580.	1.6	106
140	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.	1.6	319
141	On the stellar halo metallicity profile of Milky Way-like galaxies in the Auriga simulations. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 459, L46-L50.	1.2	35
142	Improving the convergence properties of the moving-mesh code AREPO. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1134-1143.	1.6	231
143	Zoomed cosmological simulations of Milky Way-sized haloes inf(R) gravity. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1530-1541.	1.6	17
144	THE ROLE OF COSMIC-RAY PRESSURE IN ACCELERATING GALACTIC OUTFLOWS. Astrophysical Journal Letters, 2016, 827, L29.	3.0	113

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145	Matter power spectrum and the challenge of percent accuracy. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 047-047.	1.9	137
146	Shock finding on a moving-mesh â€“ II. Hydrodynamic shocks in the Illustris universe. Monthly Notices of the Royal Astronomical Society, 2016, 461, 4441-4465.	1.6	24
147	Semi-implicit anisotropic cosmic ray transport on an unstructured moving mesh. Monthly Notices of the Royal Astronomical Society, 2016, 462, 2603-2616.	1.6	51
148	Zooming in on major mergers: dense, starbursting gas in cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2016, 462, 2418-2430.	1.6	84
149	A moving mesh unstaggered constrained transport scheme for magnetohydrodynamics. Monthly Notices of the Royal Astronomical Society, 2016, 463, 477-488.	1.6	40
150	Zooming in on accretion â€“ I. The structure of halo gas. Monthly Notices of the Royal Astronomical Society, 2016, 460, 2881-2904.	1.6	80
151	Accurately simulating anisotropic thermal conduction on a moving mesh. Monthly Notices of the Royal Astronomical Society, 2016, 458, 410-424.	1.6	30
152	Galaxy formation with local photoionization feedback â€“ II. Effect of X-ray emission from binaries and hot gas. Monthly Notices of the Royal Astronomical Society, 2016, 458, 2516-2529.	1.6	14
153	Vertical disc heating in Milky Way-sized galaxies in a cosmological context. Monthly Notices of the Royal Astronomical Society, 2016, 459, 199-219.	1.6	132
154	Spiral-induced velocity and metallicity patterns in a cosmological zoom simulation of a Milky Way-sized galaxy. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 460, L94-L98.	1.2	70
155	HYDRODYNAMIC MOVING-MESH SIMULATIONS OF THE COMMON ENVELOPE PHASE IN BINARY STELLAR SYSTEMS. Astrophysical Journal Letters, 2016, 816, L9.	3.0	123
156	Lens galaxies in the Illustris simulation: power-law models and the bias of the Hubble constant from time delays. Monthly Notices of the Royal Astronomical Society, 2016, 456, 739-755.	1.6	71
157	Modelling galactic conformity with the colourâ€“halo age relation in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2016, 455, 185-198.	1.6	38
158	Large-scale mass distribution in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2016, 457, 3024-3035.	1.6	60
159	A fully cosmological model of a Monoceros-like ring. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2779-2793.	1.6	75
160	Recoiling black holes: prospects for detection and implications of spin alignment. Monthly Notices of the Royal Astronomical Society, 2016, 456, 961-989.	1.6	90
161	High Performance Computing and Numerical Modelling. Saas-Fee Advanced Course, 2016, , 251-358.	1.1	5
162	Galaxy morphology and star formation in the Illustris Simulation atzÂ=Â0. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1886-1908.	1.6	155

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