

# Lars Hernquist

## List of Publications by Year in descending order

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249  
papers

47,742  
citations

3515

90  
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1745

212  
g-index

251  
all docs

251  
docs citations

251  
times ranked

10317  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy input from quasars regulates the growth and activity of black holes and their host galaxies. <i>Nature</i> , 2005, 433, 604-607.	13.7	2,577
2	An analytical model for spherical galaxies and bulges. <i>Astrophysical Journal</i> , 1990, 356, 359.	1.6	2,306
3	Modelling feedback from stars and black holes in galaxy mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 361, 776-794.	1.6	1,746
4	Cosmological smoothed particle hydrodynamics simulations: a hybrid multiphase model for star formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 339, 289-311.	1.6	1,737
5	Introducing the Illustris Project: simulating the coevolution of dark and visible matter in the Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 1518-1547.	1.6	1,694
6	A Unified, Merger-driven Model of the Origin of Starbursts, Quasars, the Cosmic X-ray Background, Supermassive Black Holes, and Galaxy Spheroids. <i>Astrophysical Journal, Supplement Series</i> , 2006, 163, 1-49.	3.0	1,484
7	Gasdynamics and Starbursts in Major Mergers. <i>Astrophysical Journal</i> , 1996, 464, 641.	1.6	1,378
8	A Cosmological Framework for the Co-evolution of Quasars, Supermassive Black Holes, and Elliptical Galaxies. I. Galaxy Mergers and Quasar Activity. <i>Astrophysical Journal, Supplement Series</i> , 2008, 175, 356-389.	3.0	1,154
9	Simulating galaxy formation with the IllustrisTNG model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 4077-4106.	1.6	1,144
10	Transformations of Galaxies. II. Gasdynamics in Merging Disk Galaxies. <i>Astrophysical Journal</i> , 1996, 471, 115-142.	1.6	1,058
11	First results from the IllustrisTNG simulations: matter and galaxy clustering. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 676-698.	1.6	1,035
12	First results from the IllustrisTNG simulations: the stellar mass content of groups and clusters of galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 648-675.	1.6	983
13	A semi-analytic model for the co-evolution of galaxies, black holes and active galactic nuclei. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 391, 481-506.	1.6	921
14	First results from the IllustrisTNG simulations: the galaxy colour bimodality. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 624-647.	1.6	894
15	Cosmological Simulations with TreeSPH. <i>Astrophysical Journal, Supplement Series</i> , 1996, 105, 19.	3.0	830
16	TREESPH - A unification of SPH with the hierarchical tree method. <i>Astrophysical Journal, Supplement Series</i> , 1989, 70, 419.	3.0	822
17	Introducing the Illustris project: the evolution of galaxy populations across cosmic time. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 175-200.	1.6	805
18	First results from the IllustrisTNG simulations: a tale of two elements – chemical evolution of magnesium and europium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1206-1224.	1.6	746

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19	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
20	A model for cosmological simulations of galaxy formation physics. Monthly Notices of the Royal Astronomical Society, 2013, 436, 3031-3067.	1.6	711
21	The IllustrisTNG simulations: public data release. Computational Astrophysics and Cosmology, 2019, 6, .	22.7	698
22	A unified model for AGN feedback in cosmological simulations of structure formation. Monthly Notices of the Royal Astronomical Society, 0, 380, 877-900.	1.6	692
23	First results from the IllustrisTNG simulations: radio haloes and magnetic fields. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	643
24	A NEW CALCULATION OF THE IONIZING BACKGROUND SPECTRUM AND THE EFFECTS OF He II REIONIZATION. Astrophysical Journal, 2009, 703, 1416-1443.	1.6	529
25	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
26	Black Holes in Galaxy Mergers: Evolution of Quasars. Astrophysical Journal, 2005, 630, 705-715.	1.6	497
27	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.	1.6	472
28	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
29	The Illustris simulation: the evolving population of black holes across cosmic time. Monthly Notices of the Royal Astronomical Society, 2015, 452, 575-596.	1.6	452
30	HOW DO DISKS SURVIVE MERGERS?. Astrophysical Journal, 2009, 691, 1168-1201.	1.6	446
31	Direct Cosmological Simulations of the Growth of Black Holes and Galaxies. Astrophysical Journal, 2008, 676, 33-53.	1.6	423
32	Are the Magellanic Clouds on Their First Passage about the Milky Way?. Astrophysical Journal, 2007, 668, 949-967.	1.6	417
33	Cosmological Parameter Estimation Using 21 cm Radiation from the Epoch of Reionization. Astrophysical Journal, 2006, 653, 815-834.	1.6	385
34	Tidal triggering of starbursts and nuclear activity in galaxies. Nature, 1989, 340, 687-691.	18.7	379
35	Ultraluminous starbursts in major mergers. Astrophysical Journal, 1994, 431, L9.	1.6	359
36	MERGERS AND BULGE FORMATION IN $\Lambda$ CDM: WHICH MERGERS MATTER?. Astrophysical Journal, 2010, 715, 202-229.	1.6	344

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37	Formation of a Spiral Galaxy in a Major Merger. <i>Astrophysical Journal</i> , 2005, 622, L9-L12.	1.6	342
38	The stellar mass assembly of galaxies in the Illustris simulation: growth by mergers and the spatial distribution of accreted stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 2371-2390.	1.6	319
39	Excitation of Activity in Galaxies by Minor Mergers. <i>Astrophysical Journal</i> , 1995, 448, 41.	1.6	318
40	The Kinematic Structure of Merger Remnants. <i>Astrophysical Journal</i> , 2006, 650, 791-811.	1.6	315
41	A general model for the CO-H <sub>2</sub> conversion factor in galaxies with applications to the star formation law. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 3127-3146.	1.6	298
42	The role of dwarf galaxy interactions in shaping the Magellanic System and implications for Magellanic Irregulars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 2109-2138.	1.6	289
43	Moving mesh cosmology: tracing cosmological gas accretion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 3353-3370.	1.6	288
44	Formation of dwarf galaxies in tidal tails. <i>Nature</i> , 1992, 360, 715-717.	13.7	273
45	Supermassive black holes and their feedback effects in the IllustrisTNG simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 4056-4072.	1.6	270
46	The Fundamental Scaling Relations of Elliptical Galaxies. <i>Astrophysical Journal</i> , 2006, 641, 21-40.	1.6	267
47	Formation of $z \sim 6$ Quasars from Hierarchical Galaxy Mergers. <i>Astrophysical Journal</i> , 2007, 665, 187-208.	1.6	253
48	A model for cosmological simulations of galaxy formation physics: multi-epoch validation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 438, 1985-2004.	1.6	242
49	The optical morphologies of galaxies in the IllustrisTNG simulation: a comparison to Pan-STARRS observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 4140-4159.	1.6	236
50	Performance characteristics of tree codes. <i>Astrophysical Journal, Supplement Series</i> , 1987, 64, 715.	3.0	221
51	Star formation in galaxy mergers with realistic models of stellar feedback and the interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 1901-1927.	1.6	208
52	Galaxy formation with BECDM – I. Turbulence and relaxation of idealized haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 4559-4570.	1.6	208
53	The star formation main sequence and stellar mass assembly of galaxies in the Illustris simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 3548-3563.	1.6	201
54	The Angular Momentum of Gas in Protogalaxies. I. Implications for the Formation of Disk Galaxies. <i>Astrophysical Journal</i> , 2002, 576, 21-35.	1.6	201

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55	An analytical model for the history of cosmic star formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 341, 1253-1267.	1.6	195
56	The size evolution of star-forming and quenched galaxies in the IllustrisTNG simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 3976-3996.	1.6	195
57	Metal Enrichment of the Intergalactic Medium in Cosmological Simulations. <i>Astrophysical Journal</i> , 2001, 561, 521-549.	1.6	187
58	The formation of massive, compact galaxies at $z \approx 2$ in the Illustris simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 361-372.	1.6	187
59	The star formation activity of IllustrisTNG galaxies: main sequence, UVJ diagram, quenched fractions, and systematics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4817-4840.	1.6	176
60	GALACTIC ANGULAR MOMENTUM IN THE ILLUSTRIS SIMULATION: FEEDBACK AND THE HUBBLE SEQUENCE. <i>Astrophysical Journal Letters</i> , 2015, 804, L40.	3.0	174
61	Moving mesh cosmology: numerical techniques and global statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 3024-3057.	1.6	169
62	THE METALLICITY EVOLUTION OF INTERACTING GALAXIES. <i>Astrophysical Journal</i> , 2012, 746, 108.	1.6	164
63	Tidal Shocking by Extended Mass Distributions. <i>Astrophysical Journal</i> , 1999, 514, 109-118.	1.6	159
64	An Observed Fundamental Plane Relation for Supermassive Black Holes. <i>Astrophysical Journal</i> , 2007, 669, 67-73.	1.6	155
65	Galaxy morphology and star formation in the Illustris Simulation at $z \approx 0$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 1886-1908.	1.6	155
66	Origin of kinematic subsystems in elliptical galaxies. <i>Nature</i> , 1991, 354, 210-212.	13.7	154
67	Cosmic reionization by stellar sources: Population II stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 344, 607-624.	1.6	151
68	Determining the Properties and Evolution of Red Galaxies from the Quasar Luminosity Function. <i>Astrophysical Journal, Supplement Series</i> , 2006, 163, 50-79.	3.0	145
69	Moving mesh cosmology: the hydrodynamics of galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 424, 2999-3027.	1.6	144
70	Ingredients for 21 cm Intensity Mapping. <i>Astrophysical Journal</i> , 2018, 866, 135.	1.6	139
71	The role of mergers and halo spin in shaping galaxy morphology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 3083-3098.	1.6	134
72	The abundance, distribution, and physical nature of highly ionized oxygen $\text{O}^{\text{vi}}$ , $\text{O}^{\text{vii}}$ , and $\text{O}^{\text{viii}}$ in IllustrisTNG. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 450-479.	1.6	133

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73	QUASARS ARE NOT LIGHT BULBS: TESTING MODELS OF QUASAR LIFETIMES WITH THE OBSERVED EDDINGTON RATIO DISTRIBUTION. <i>Astrophysical Journal</i> , 2009, 698, 1550-1569.	1.6	127
74	DISSIPATION AND EXTRA LIGHT IN GALACTIC NUCLEI. III. "CORE" ELLIPTICALS AND "MISSING" LIGHT. <i>Astrophysical Journal, Supplement Series</i> , 2009, 181, 486-532.	3.0	127
75	The relationship between black hole mass and galaxy properties: examining the black hole feedback model in IllustrisTNG. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 1888-1906.	1.6	127
76	The evolution of the mass-metallicity relation and its scatter in IllustrisTNG. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	123
77	Baryons in the Cosmic Web of IllustrisTNG " I: gas in knots, filaments, sheets, and voids. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 3766-3787.	1.6	120
78	Stellar feedback and bulge formation in clumpy discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 968-978.	1.6	119
79	Halo mass and assembly history exposed in the faint outskirts: the stellar and dark matter haloes of Illustris galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 444, 237-249.	1.6	117
80	Moving-mesh cosmology: characteristics of galaxies and haloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 2027-2048.	1.6	116
81	The CAMELS Project: Cosmology and Astrophysics with Machine-learning Simulations. <i>Astrophysical Journal</i> , 2021, 915, 71.	1.6	113
82	Morphology and star formation in IllustrisTNG: the build-up of spheroids and discs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 5416-5440.	1.6	109
83	Following the flow: tracer particles in astrophysical fluid simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 1426-1442.	1.6	107
84	Synthetic galaxy images and spectra from the Illustris simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 2753-2771.	1.6	106
85	Baryonic impact on the dark matter distribution in Milky Way-sized galaxies and their satellites. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 458, 1559-1580.	1.6	106
86	Damped Lyman $\alpha$ absorbers as a probe of stellar feedback. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 445, 2313-2324.	1.6	105
87	Jellyfish galaxies with the IllustrisTNG simulations " I. Gas-stripping phenomena in the full cosmological context. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 1042-1066.	1.6	102
88	Resolving small-scale cold circumgalactic gas in TNG50. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 2391-2414.	1.6	100
89	High-redshift JWST predictions from IllustrisTNG: dust modelling and galaxy luminosity functions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 5167-5201.	1.6	99
90	The fraction of dark matter within galaxies from the IllustrisTNG simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 1950-1975.	1.6	97

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91	The diverse evolutionary paths of simulated high- $z$ massive, compact galaxies to $z = 0$ . Monthly Notices of the Royal Astronomical Society, 2016, 456, 1030-1048.	1.6	96
92	First Star-Forming Structures in Fuzzy Cosmic Filaments. Physical Review Letters, 2019, 123, 141301.	2.9	94
93	Moving-mesh cosmology: properties of gas discs. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2224-2238.	1.6	92
94	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
95	RECOVERING STELLAR POPULATION PROPERTIES AND REDSHIFTS FROM BROADBAND PHOTOMETRY OF SIMULATED GALAXIES: LESSONS FOR SED MODELING. Astrophysical Journal, 2009, 696, 348-369.	1.6	87
96	Resonant stripping as the origin of dwarf spheroidal galaxies. Nature, 2009, 460, 605-607.	13.7	87
97	Galaxy mergers on a moving mesh: a comparison with smoothed particle hydrodynamics. Monthly Notices of the Royal Astronomical Society, 2014, 442, 1992-2016.	1.6	87
98	Quenched fractions in the IllustrisTNG simulations: the roles of AGN feedback, environment, and pre-processing. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4004-4024.	1.6	86
99	The impact of galactic feedback on the circumgalactic medium. Monthly Notices of the Royal Astronomical Society, 2015, 448, 895-909.	1.6	82
100	Zooming in on accretion II. Cold circumgalactic gas simulated with a super-Lagrangian refinement scheme. Monthly Notices of the Royal Astronomical Society, 2019, 483, 4040-4059.	1.6	78
101	The Self-Regulated Growth of Supermassive Black Holes. Astrophysical Journal, 2008, 686, 815-828.	1.6	76
102	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
103	Interacting galaxies on FIRE-2: the connection between enhanced star formation and interstellar gas content. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1320-1338.	1.6	75
104	Atomic hydrogen in IllustrisTNG galaxies: the impact of environment paralleled with local 21-cm surveys. Monthly Notices of the Royal Astronomical Society, 2019, 483, 5334-5354.	1.6	75
105	NUMERICAL CONVERGENCE IN SMOOTHED PARTICLE HYDRODYNAMICS. Astrophysical Journal, 2015, 800, 6.	1.6	74
106	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
107	Modeling the Atomic-to-molecular Transition in Cosmological Simulations of Galaxy Formation. Astrophysical Journal, Supplement Series, 2018, 238, 33.	3.0	71
108	Shape of dark matter haloes in the Illustris simulation: effects of baryons. Monthly Notices of the Royal Astronomical Society, 2019, 484, 476-493.	1.6	71

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109	Fast, Slow, Early, Late: Quenching Massive Galaxies at $z \approx 0.8$ . <i>Astrophysical Journal</i> , 2022, 926, 134.	1.6	70
110	Moving-mesh Simulations of Star-forming Cores in Magneto-gravo-turbulence. <i>Astrophysical Journal</i> , 2017, 838, 40.	1.6	69
111	Deep learning predictions of galaxy merger stage and the importance of observational realism. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 5390-5413.	1.6	69
112	Massive close pairs measure rapid galaxy assembly in mergers at high redshift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 207-216.	1.6	68
113	A census of cool-core galaxy clusters in IllustrisTNG. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 1809-1831.	1.6	68
114	The formation of ultradiffuse galaxies in clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1848-1858.	1.6	68
115	First Results from SMAUG: Characterization of Multiphase Galactic Outflows from a Suite of Local Star-forming Galactic Disk Simulations. <i>Astrophysical Journal</i> , 2020, 900, 61.	1.6	68
116	On the assembly of dwarf galaxies in clusters and their efficient formation of globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 2323-2336.	1.6	67
117	Atomic and molecular gas in IllustrisTNG galaxies at low redshift. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1529-1550.	1.6	67
118	Unveiling the Role of the Magnetic Field at the Smallest Scales of Star Formation. <i>Astrophysical Journal Letters</i> , 2017, 842, L9.	3.0	66
119	Quenched fractions in the IllustrisTNG simulations: comparison with observations and other theoretical models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 4760-4780.	1.6	66
120	A Quantification of the Butterfly Effect in Cosmological Simulations and Implications for Galaxy Scaling Relations. <i>Astrophysical Journal</i> , 2019, 871, 21.	1.6	65
121	The ALMA Spectroscopic Survey in the HUDF: the Molecular Gas Content of Galaxies and Tensions with IllustrisTNG and the Santa Cruz SAM. <i>Astrophysical Journal</i> , 2019, 882, 137.	1.6	65
122	Supermassive black holes in cosmological simulations I: $\langle M_{\text{BH}} \rangle$ vs $\langle M_{\text{star}} \rangle$ relation and black hole mass function. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 1940-1975.	1.6	63
123	The inner structure of early-type galaxies in the Illustris simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 1824-1848.	1.6	62
124	The diversity and variability of star formation histories in models of galaxy evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 430-463.	1.6	62
125	Single sources in the low-frequency gravitational wave sky: properties and time to detection by pulsar timing arrays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 964-976.	1.6	61
126	Limitations to the $\Lambda$ CDM HOD model and beyond. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 5506-5519.	1.6	60



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127	The colours of satellite galaxies in the Illustris simulation. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 447, L6-L10.	1.2	59
128	Revealing the galaxy-halo connection in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5693-5711.	1.6	59
129	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
130	On the OVI abundance in the circumgalactic medium of low-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 465, 2966-2982.	1.6	58
131	Predictions for the angular dependence of gas mass flow rate and metallicity in the circumgalactic medium. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2462-2473.	1.6	58
132	Galaxy formation with BECDM II. Cosmic filaments and first galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2027-2044.	1.6	58
133	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
134	Formation and incidence of shell galaxies in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1715-1739.	1.6	55
135	The fate of disc galaxies in IllustrisTNG clusters. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2673-2703.	1.6	53
136	Spatially resolved star formation and fuelling in galaxy interactions. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3113-3133.	1.6	52
137	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
138	Cosmological Simulations of Quasar Fueling to Subparsec Scales Using Lagrangian Hyper-refinement. Astrophysical Journal, 2021, 917, 53.	1.6	49
139	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
140	Massive BH binaries as periodically variable AGN. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1579-1594.	1.6	44
141	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
142	Why are active galactic nuclei and host galaxies misaligned?. Monthly Notices of the Royal Astronomical Society, 2012, 425, 1121-1128.	1.6	42
143	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
144	HOT GASEOUS CORONAE AROUND SPIRAL GALAXIES: PROBING THE ILLUSTRIS SIMULATION. Astrophysical Journal, 2015, 804, 72.	1.6	40

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145	A moving mesh unstaggered constrained transport scheme for magnetohydrodynamics. Monthly Notices of the Royal Astronomical Society, 2016, 463, 477-488.	1.6	40
146	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
147	Modelling galactic conformity with the colour-halo age relation in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2016, 455, 185-198.	1.6	38
148	Automated distant galaxy merger classifications from Space Telescope images using the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3702-3720.	1.6	38
149	The physical origins and dominant emission mechanisms of Lyman alpha haloes: results from the TNG50 simulation in comparison to MUSE observations. Monthly Notices of the Royal Astronomical Society, 2021, 506, 5129-5152.	1.6	38
150	A deep learning approach to test the small-scale galaxy morphology and its relationship with star formation activity in hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2021, 501, 4359-4382.	1.6	38
151	First Results from SMAUG: Uncovering the Origin of the Multiphase Circumgalactic Medium with a Comparative Analysis of Idealized and Cosmological Simulations. Astrophysical Journal, 2020, 903, 32.	1.6	38
152	A constrained transport scheme for MHD on unstructured static and moving meshes. Monthly Notices of the Royal Astronomical Society, 2014, 442, 43-55.	1.6	37
153	On the Origin of Star-Gas Counterrotation in Low-mass Galaxies. Astrophysical Journal, 2019, 878, 143.	1.6	37
154	The dust-continuum size of TNG50 galaxies at $z \approx 1.5$ : a comparison with the distribution of stellar light, stars, dust, and H <sub>2</sub> . Monthly Notices of the Royal Astronomical Society, 2022, 510, 3321-3334.	1.6	37
155	The buildup of strongly barred galaxies in the TNG100 simulation. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	36
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