

Dylan Nelson

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	Simulating galaxy formation with the IllustrisTNG model. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4077-4106.	4.4	1,144
3	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
4	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
5	Properties of galaxies reproduced by a hydrodynamic simulation. Nature, 2014, 509, 177-182.	27.8	979
6	First results from the IllustrisTNG simulations: the galaxy colour bimodality. Monthly Notices of the Royal Astronomical Society, 2018, 475, 624-647.	4.4	894
7	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
8	First results from the IllustrisTNG simulations: a tale of two elements – chemical evolution of magnesium and europium. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1206-1224.	4.4	746
9	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
10	The IllustrisTNG simulations: public data release. Computational Astrophysics and Cosmology, 2019, 6, .	22.7	698
11	First results from the IllustrisTNG simulations: radio haloes and magnetic fields. Monthly Notices of the Royal Astronomical Society, 2019, 477, 1206-1224.	4.4	643
12	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
13	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
14	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
15	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
16	The illustris simulation: Public data release. Astronomy and Computing, 2015, 13, 12-37.	1.7	412
17	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
18	Moving mesh cosmology: tracing cosmological gas accretion. Monthly Notices of the Royal Astronomical Society, 2013, 429, 3353-3370.	4.4	288

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19	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
20	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
21	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
22	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
23	The formation of massive, compact galaxies at $z \approx 2$ in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2015, 449, 361-372.	4.4	187
24	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
25	Galaxy morphology and star formation in the Illustris Simulation at $z \approx 0$. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1886-1908.	4.4	155
26	Ingredients for 21 cm Intensity Mapping. Astrophysical Journal, 2018, 866, 135.	4.5	139
27	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
28	The abundance, distribution, and physical nature of highly ionized oxygen O ^{vi} , O ^{vii} , and O ^{viii} in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2018, 477, 450-479.	4.4	133
29	The relationship between black hole mass and galaxy properties: examining the black hole feedback model in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1888-1906.	4.4	127
30	The evolution of the mass-metallicity relation and its scatter in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	123
31	The impact of feedback on cosmological gas accretion. Monthly Notices of the Royal Astronomical Society, 2015, 448, 59-74.	4.4	120
32	Baryons in the Cosmic Web of IllustrisTNG – I: gas in knots, filaments, sheets, and voids. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3766-3787.	4.4	120
33	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
34	The CAMELS Project: Cosmology and Astrophysics with Machine-learning Simulations. Astrophysical Journal, 2021, 915, 71.	4.5	113
35	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
36	Following the flow: tracer particles in astrophysical fluid simulations. Monthly Notices of the Royal Astronomical Society, 2013, 435, 1426-1442.	4.4	107

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37	Synthetic galaxy images and spectra from the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2015, 447, 2753-2771.	4.4	106
38	Jellyfish galaxies with the IllustrisTNG simulations â€“ I. Gas-stripping phenomena in the full cosmological context. Monthly Notices of the Royal Astronomical Society, 2019, 483, 1042-1066.	4.4	102
39	Resolving small-scale cold circumgalactic gas in TNG50. Monthly Notices of the Royal Astronomical Society, 2020, 498, 2391-2414.	4.4	100
40	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.	4.4	100
41	High-redshift JWST predictions from IllustrisTNG: dust modelling and galaxy luminosity functions. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5167-5201.	4.4	99
42	The fraction of dark matter within galaxies from the IllustrisTNG simulations. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1950-1975.	4.4	97
43	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.	4.4	96
44	Recoiling black holes: prospects for detection and implications of spin alignment. Monthly Notices of the Royal Astronomical Society, 2016, 456, 961-989.	4.4	90
45	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.	4.4	86
46	Zooming in on accretion â€“ I. The structure of halo gas. Monthly Notices of the Royal Astronomical Society, 2016, 460, 2881-2904.	4.4	80
47	Zooming in on accretion â€“ II. Cold circumgalactic gas simulated with a super-Lagrangian refinement scheme. Monthly Notices of the Royal Astronomical Society, 2019, 483, 4040-4059.	4.4	78
48	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.	3.3	75
49	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.	4.4	75
50	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.	4.4	71
51	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.	4.4	71
52	Modeling the Atomic-to-molecular Transition in Cosmological Simulations of Galaxy Formation. Astrophysical Journal, Supplement Series, 2018, 238, 33.	7.7	71
53	A census of cool-core galaxy clusters in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1809-1831.	4.4	68
54	An analysis of the evolving comoving number density of galaxies in hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2015, 454, 2770-2786.	4.4	67

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55	On the assembly of dwarf galaxies in clusters and their efficient formation of globular clusters. Monthly Notices of the Royal Astronomical Society, 2016, 455, 2323-2336.	4.4	67
56	Atomic and molecular gas in IllustrisTNG galaxies at low redshift. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1529-1550.	4.4	67
57	Quenched fractions in the IllustrisTNG simulations: comparison with observations and other theoretical models. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4760-4780.	4.4	66
58	A Quantification of the Butterfly Effect in Cosmological Simulations and Implications for Galaxy Scaling Relations. Astrophysical Journal, 2019, 871, 21.	4.5	65
59	The ALMA Spectroscopic Survey in the HUDF: the Molecular Gas Content of Galaxies and Tensions with IllustrisTNG and the Santa Cruz SAM. Astrophysical Journal, 2019, 882, 137.	4.5	65
60	Supermassive black holes in cosmological simulations I: $\langle M_{\text{BH}} \rangle$ vs $\langle M_{\text{star}} \rangle$ relation and black hole mass function. Monthly Notices of the Royal Astronomical Society, 2021, 503, 1940-1975.	4.4	63
61	The inner structure of early-type galaxies in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2017, 469, 1824-1848.	4.4	62
62	The colours of satellite galaxies in the Illustris simulation. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 447, L6-L10.	3.3	59
63	Revealing the galaxy-halo connection in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5693-5711.	4.4	59
64	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.	4.4	59
65	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.	4.4	58
66	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.	4.4	56
67	A Deep Learning Approach to Galaxy Cluster X-Ray Masses. Astrophysical Journal, 2019, 876, 82.	4.5	55
68	The fate of disc galaxies in IllustrisTNG clusters. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2673-2703.	4.4	53
69	The Hubble Sequence at $z \approx 0$ in the IllustrisTNG simulation with deep learning. Monthly Notices of the Royal Astronomical Society, 2019, 489, 1859-1879.	4.4	51
70	Hydrogen reionization in the Illustris universe. Monthly Notices of the Royal Astronomical Society, 2015, 453, 3594-3611.	4.4	44
71	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.	4.4	44
72	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.	4.4	41

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73	Gas-phase metallicity gradients of TNG50 star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3024-3048.	4.4	40
74	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.	4.4	39
75	Modelling galactic conformity with the colour-halo age relation in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2016, 455, 185-198.	4.4	38
76	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.	4.4	38
77	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.	4.4	38
78	The dust-continuum size of TNG50 galaxies at $z \approx 1$: a comparison with the distribution of stellar light, stars, dust, and H ₂ . Monthly Notices of the Royal Astronomical Society, 2022, 510, 3321-3334.	4.4	37
79	The buildup of strongly barred galaxies in the TNG100 simulation. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	36
80	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.	4.4	36
81	The stellar halos of ETGs in the IllustrisTNG simulations. Astronomy and Astrophysics, 2021, 647, A95.	5.1	34
82	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.	5.1	33
83	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.	4.4	32
84	Quiescent ultra-diffuse galaxies in the field originating from backplash orbits. Nature Astronomy, 2021, 5, 1255-1260.	10.1	32
85	Galaxy bias and primordial non-Gaussianity: insights from galaxy formation simulations with IllustrisTNG. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 013-013.	5.4	32
86	The distinct stellar-to-halo mass relations of satellite and central galaxies: insights from the IllustrisTNG simulations. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3957-3975.	4.4	32
87	Origin of the galaxy halo mass relation. Monthly Notices of the Royal Astronomical Society, 2019, 490, 96-113.	4.4	31
88	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.	4.4	31
89	A missing outskirts problem? Comparisons between stellar haloes in the Dragonfly Nearby Galaxies Survey and the TNG100 simulation. Monthly Notices of the Royal Astronomical Society, 2020, 495, 4570-4604.	4.4	31
90	The cold circumgalactic medium in emission: Mg haloes in TNG50. Monthly Notices of the Royal Astronomical Society, 2021, 507, 4445-4463.	4.4	29

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91	Formation of a Malin 1 analogue in IllustrisTNG by stimulated accretion. Monthly Notices of the Royal Astronomical Society: Letters, 2018, 480, L18-L22.	3.3	27
92	Galaxy formation with L-GALAXIES: modelling the environmental dependency of galaxy evolution and comparing with observations. Monthly Notices of the Royal Astronomical Society, 2021, 505, 492-514.	4.4	27
93	Anisotropic satellite galaxy quenching modulated by black hole activity. Nature, 2021, 594, 187-190.	27.8	27
94	Supermassive black holes in cosmological simulations â€” II: the AGN population and predictions for upcoming X-ray missions. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3015-3042.	4.4	27
95	Stellar property statistics of massive haloes from cosmological hydrodynamics simulations: common kernel shapes. Monthly Notices of the Royal Astronomical Society, 2020, 495, 686-704.	4.4	26
96	The Angular Momentum of the Circumgalactic Medium in the TNG100 Simulation. Astrophysical Journal, 2020, 895, 17.	4.5	26
97	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.	4.4	26
98	The evolution of the barred galaxy population in the TNG50 simulation. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5339-5357.	4.4	26
99	Molecular hydrogen in IllustrisTNG galaxies: carefully comparing signatures of environment with local CO and SFR data. Monthly Notices of the Royal Astronomical Society, 2021, 502, 3158-3178.	4.4	25
100	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.	4.4	24
101	Disentangling the formation history of galaxies via population-orbit superposition: method validation. Monthly Notices of the Royal Astronomical Society, 2020, 496, 1579-1597.	4.4	24
102	Correlations between Black Holes and Host Galaxies in the Illustris and IllustrisTNG Simulations. Astrophysical Journal, 2020, 895, 102.	4.5	24
103	ALMACAL â€” VI. Molecular gas mass density across cosmic time via a blind search for intervening molecular absorbers. Monthly Notices of the Royal Astronomical Society, 2019, 490, 1220-1230.	4.4	23
104	A new method to quantify environment and model ram-pressure stripping in N-body simulations. Monthly Notices of the Royal Astronomical Society, 2019, 487, 4313-4331.	4.4	22
105	Enhancing AGN efficiency and cool-core formation with anisotropic thermal conduction. Monthly Notices of the Royal Astronomical Society, 2019, 488, 3003-3013.	4.4	22
106	Kinematic Decomposition of IllustrisTNG Disk Galaxies: Morphology and Relation with Morphological Structures. Astrophysical Journal, 2020, 895, 139.	4.5	22
107	Baryon-CDM isocurvature galaxy bias with IllustrisTNG. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 005-005.	5.4	22
108	Magnetization of the intergalactic medium in the IllustrisTNG simulations: the importance of extended, outflow-driven bubbles. Monthly Notices of the Royal Astronomical Society, 2021, 505, 5038-5057.	4.4	22

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109	Comparing galaxy formation in the L-GALAXIES semi-analytical model and the IllustrisTNG simulations. Monthly Notices of the Royal Astronomical Society, 2021, 502, 1051-1069.	4.4	22
110	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.	3.3	21
111	Identifying Kinematic Structures in Simulated Galaxies Using Unsupervised Machine Learning. Astrophysical Journal, 2019, 884, 129.	4.5	21
112	A redshift-dependent IR τ ² dust attenuation relation for TNG50 galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4773-4794.	4.4	21
113	Predictions for anisotropic X-ray signatures in the circumgalactic medium: imprints of supermassive black hole driven outflows. Monthly Notices of the Royal Astronomical Society, 2021, 508, 1563-1581.	4.4	21
114	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.	4.4	21
115	THE SLOAN NEARBY CLUSTER WEAK LENSING SURVEY. Astrophysical Journal, 2009, 702, L110-L113.	4.5	20
116	The morphology and kinematics of the gaseous circumgalactic medium of Milky Way mass galaxies â€“ II. Comparison of IllustrisTNG and Illustris simulation results. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4686-4700.	4.4	20
117	Submillimetre galaxies in cosmological hydrodynamical simulations â€“ an opportunity for constraining feedback models. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2922-2933.	4.4	20
118	Properties of the ionized CGM and IGM: tests for galaxy formation models from the Sunyaevâ€“Zeldovich effect. Monthly Notices of the Royal Astronomical Society, 2021, 504, 5131-5143.	4.4	20
119	A study of stellar orbit fractions: simulated IllustrisTNG galaxies compared to CALIFA observations. Monthly Notices of the Royal Astronomical Society, 2019, 489, 842-854.	4.4	19
120	Characterizing the abundance, properties, and kinematics of the cool circumgalactic medium of galaxies in absorption with SDSS DR16. Monthly Notices of the Royal Astronomical Society, 2021, 504, 65-88.	4.4	17
121	The kinematics and dark matter fractions of TNG50 galaxies at $\langle i \rangle_z \langle l \rangle = 2$ from an observational perspective. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4597-4619.	4.4	17
122	Cosmic metal density evolution in neutral gas: insights from observations and cosmological simulations. Monthly Notices of the Royal Astronomical Society, 2021, 508, 3535-3550.	4.4	16
123	On the formation of massive quiescent galaxies with diverse morphologies in the TNG50 simulation. Monthly Notices of the Royal Astronomical Society, 2022, 515, 213-228.	4.4	16
124	The Evolutionary Pathways of Disk-, Bulge-, and Halo-dominated Galaxies. Astrophysical Journal, 2021, 919, 135.	4.5	15
125	Mass of the dynamically hot inner stellar halo predicts the ancient accreted stellar mass. Astronomy and Astrophysics, 2022, 660, A20.	5.1	15
126	The Formation History of Subhalos and the Evolution of Satellite Galaxies. Astrophysical Journal, 2020, 893, 139.	4.5	14

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127	Teaching Neural Networks to Generate Fast Sunyaev-Zeldovich Maps. <i>Astrophysical Journal</i> , 2020, 902, 129.	4.5	14
128	The morphology and kinematics of neutral hydrogen in the vicinity of $z=0$ galaxies with Milky Way masses – a study with the Illustris simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 3751-3764.	4.4	12
129	A Comparison of Circumgalactic Mg ii Absorption between the TNG50 Simulation and the MEGAFLOW Survey. <i>Astrophysical Journal</i> , 2021, 923, 56.	4.5	12
130	Morphological decomposition of TNG50 galaxies: methodology and catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 1524-1543.	4.4	12
131	Joint galaxy-galaxy lensing and clustering constraints on galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5804-5833.	4.4	11
132	Clustering of Mg ii absorption line systems around massive galaxies: an important constraint on feedback processes in galaxy formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 3737-3745.	4.4	9
133	Voyage through the hidden physics of the cosmic web. <i>Experimental Astronomy</i> , 2021, 51, 1043-1079.	3.7	9
134	The MUSE Hubble Ultra Deep Field Survey. XVI. The angular momentum of low-mass star-forming galaxies: A cautionary tale and insights from TNG50. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	9
135	Evolution of the grain size distribution in Milky Way-like galaxies in post-processed IllustrisTNG simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 1336-1351.	4.4	9
136	Ultrahigh energy cosmic ray deflection by the intergalactic magnetic field. <i>Physical Review D</i> , 2021, 104, .	4.7	9
137	Toward Precise Galaxy Evolution: A Comparison between Spectral Indices of $z \sim 1$ Galaxies in the IllustrisTNG Simulation and the LEGA-C Survey. <i>Astronomical Journal</i> , 2021, 162, 201.	4.7	9
138	The building up of observed stellar scaling relations of massive galaxies and the connection to black hole growth in the TNG50 simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	9
139	High and low $S_{\text{B}}^{\text{H}\alpha}$ index bulges in Milky Way- and M31-like galaxies: origin and connection to the bar with TNG50. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 2537-2555.	4.4	9
140	Cool circumgalactic gas in galaxy clusters: connecting the DESI legacy imaging survey and SDSS DR16 Mg ii absorbers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 3210-3227.	4.4	9
141	Bringing faint active galactic nuclei (AGNs) to light: a view from large-scale cosmological simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 4816-4843.	4.4	8
142	Cooling flows around cold clouds in the circumgalactic medium: steady-state models and comparison with TNG50. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 3561-3574.	4.4	8
143	The column densities of molecular gas across cosmic time: bridging observations and simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 4736-4751.	4.4	6
144	Impact of gas-based seeding on supermassive black hole populations at $z \sim 7$. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 2012-2036.	4.4	5

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145	DIISC-I: The Discovery of Kinematically Anomalous H I Clouds in M 100. <i>Astrophysical Journal</i> , 2021, 922, 69.	4.5	4
146	Impact of gas spin and Lyman- α flux on black hole seed formation in cosmological simulations: implications for direct collapse. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 510, 177-196.	4.4	3
147	First Results from SMAUG: Insights into Star Formation Conditions from Spatially Resolved ISM Properties in TNG50. <i>Astrophysical Journal</i> , 2022, 926, 139.	4.5	3
148	Exploring the effect of baryons on the radial distribution of satellite galaxies with GAMA and IllustrisTNG. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 4676-4695.	4.4	2
149	SDSS-IV MaNGA: Cannibalism Caught in the Act—On the Frequency of Occurrence of Multiple Cores in Brightest Cluster Galaxies. <i>Astrophysical Journal</i> , 2022, 933, 61.	4.5	2
150	Modeling the Observability of Recoiling Black Holes as Offset Quasars. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 317-318.	0.0	0
151	The TNG50 Simulation of the IllustrisTNG Project: Bridging the Gap Between Large Cosmological Volumes and Resolved Galaxies. , 2019, , 5-20.		0
152	The TNG50 Simulation: Highly-Resolved Galaxies in a Large Cosmological Volume to the Present Day. , 2021, , 5-22.		0