List of Publications by Year in descending order

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DALL TODDEV

#	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.	1.6	1,694
2	Simulating galaxy formation with the IllustrisTNG model. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4077-4106.	1.6	1,144
3	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
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.	1.6	983
5	Properties of galaxies reproduced by a hydrodynamic simulation. Nature, 2014, 509, 177-182.	13.7	979
6	First results from the IllustrisTNG simulations: the galaxy colour bimodality. Monthly Notices of the Royal Astronomical Society, 2018, 475, 624-647.	1.6	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.	1.6	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.	1.6	746
9	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
10	A model for cosmological simulations of galaxy formation physics. Monthly Notices of the Royal Astronomical Society, 2013, 436, 3031-3067.	1.6	711
11	The IllustrisTNG simulations: public data release. Computational Astrophysics and Cosmology, 2019, 6, .	22.7	698
12	FIRE-2 simulations: physics versus numerics in galaxy formation. Monthly Notices of the Royal Astronomical Society, 2018, 480, 800-863.	1.6	676
13	First results from the IllustrisTNG simulations: radio haloes and magnetic fields. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	643
14	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
15	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
16	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
17	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
18	The illustris simulation: Public data release. Astronomy and Computing, 2015, 13, 12-37.	0.8	412

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19	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
20	Cosmological simulations of galaxy formation. Nature Reviews Physics, 2020, 2, 42-66.	11.9	317
21	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
22	A model for cosmological simulations of galaxy formation physics: multi-epoch validation. Monthly Notices of the Royal Astronomical Society, 2014, 438, 1985-2004.	1.6	242
23	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
24	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.	1.6	201
25	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
26	Galaxy pairs in the Sloan Digital Sky Survey - V. Tracing changes in star formation rate and metallicity out to separations of 80 kpc. Monthly Notices of the Royal Astronomical Society, 2012, 426, 549-565.	1.6	190
27	The formation of massive, compact galaxies at zÂ=Â2 in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2015, 449, 361-372.	1.6	187
28	Galaxy pairs in the Sloan Digital Sky Survey – VI. The orbital extent of enhanced star formation in interacting galaxies. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 433, L59-L63.	1.2	178
29	Black holes on FIRE: stellar feedback limits early feeding of galactic nuclei. Monthly Notices of the Royal Astronomical Society: Letters, 2017, 472, L109-L114.	1.2	176
30	THE METALLICITY EVOLUTION OF INTERACTING GALAXIES. Astrophysical Journal, 2012, 746, 108.	1.6	164
31	Galaxy morphology and star formation in the Illustris Simulation at <i>z</i> Â=Â0. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1886-1908.	1.6	155
32	Stellar and quasar feedback in concert: effects on AGN accretion, obscuration, and outflows. Monthly Notices of the Royal Astronomical Society, 2016, 458, 816-831.	1.6	143
33	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
34	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.	1.6	133
35	Dust formation in Milky Way-like galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 457, 3775-3800.	1.6	127
36	The evolution of the mass-metallicity relation and its scatter in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	123

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37	The impact of feedback on cosmological gas accretion. Monthly Notices of the Royal Astronomical Society, 2015, 448, 59-74.	1.6	120
38	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.	1.6	120
39	Metal flows of the circumgalactic medium, and the metal budget in galactic haloes. Monthly Notices of the Royal Astronomical Society, 2017, 468, 4170-4188.	1.6	119
40	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.	1.6	117
41	The CAMELS Project: Cosmology and Astrophysics with Machine-learning Simulations. Astrophysical Journal, 2021, 915, 71.	1.6	113
42	Mapping galaxy encounters in numerical simulations: the spatial extent of induced star formation. Monthly Notices of the Royal Astronomical Society, 2015, 448, 1107-1117.	1.6	110
43	Simulating the dust content of galaxies: successes and failures. Monthly Notices of the Royal Astronomical Society, 2017, 468, 1505-1521.	1.6	109
44	Synthetic galaxy images and spectra from the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2015, 447, 2753-2771.	1.6	106
45	Damped Lyman α absorbers as a probe of stellar feedback. Monthly Notices of the Royal Astronomical Society, 2014, 445, 2313-2324.	1.6	105
46	AN INTEGRAL FIELD STUDY OF ABUNDANCE GRADIENTS IN NEARBY LUMINOUS INFRARED GALAXIES. Astrophysical Journal, 2012, 753, 5.	1.6	99
47	The impact of galactic properties and environment on the quenching of central and satellite galaxies: a comparison between SDSS, Illustris and L-Galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 462, 2559-2586.	1.6	99
48	High-redshift <i>JWST</i> predictions from IllustrisTNG: dust modelling and galaxy luminosity functions. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5167-5201.	1.6	99
49	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
50	The diverse evolutionary paths of simulated high- <i>z</i> massive, compact galaxies to <i>z</i> = 0. Monthly Notices of the Royal Astronomical Society, 2016, 456, 1030-1048.	1.6	96
51	Moving-mesh cosmology: properties of gas discs. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2224-2238.	1.6	92
52	ALMA Resolves the Nuclear Disks of Arp 220. Astrophysical Journal, 2017, 836, 66.	1.6	91
53	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
54	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

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55	Simulating galactic dust grain evolution on a moving mesh. Monthly Notices of the Royal Astronomical Society, 2018, 478, 2851-2886.	1.6	87
56	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
57	The impact of galactic feedback on the circumgalactic medium. Monthly Notices of the Royal Astronomical Society, 2015, 448, 895-909.	1.6	82
58	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
59	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
60	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
61	Galaxies in the Illustris simulation as seen by the Sloan Digital Sky Survey – II. Size–luminosity relations and the deficit of bulge-dominated galaxies in Illustris at low mass. Monthly Notices of the Royal Astronomical Society, 2017, 467, 2879-2895.	1.6	71
62	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
63	Modeling the Atomic-to-molecular Transition in Cosmological Simulations of Galaxy Formation. Astrophysical Journal, Supplement Series, 2018, 238, 33.	3.0	71
64	Deep learning predictions of galaxy merger stage and the importance of observational realism. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5390-5413.	1.6	69
65	Massive close pairs measure rapid galaxy assembly in mergers at high redshift. Monthly Notices of the Royal Astronomical Society, 2017, 468, 207-216.	1.6	68
66	A census of cool-core galaxy clusters in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1809-1831.	1.6	68
67	An analysis of the evolving comoving number density of galaxies in hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2015, 454, 2770-2786.	1.6	67
68	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.	1.6	67
69	Galaxy pairs in the Sloan Digital Sky Survey – XI. A new method for measuring the influence of the closest companion out to wide separations. Monthly Notices of the Royal Astronomical Society, 2016, 461, 2589-2604.	1.6	66
70	Large-scale mass distribution in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2016, 457, 3024-3035.	1.6	60
71	The colours of satellite galaxies in the Illustris simulation. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 447, L6-L10.	1.2	59
72	Log-normal Star Formation Histories in Simulated and Observed Galaxies. Astrophysical Journal, 2017, 839, 26.	1.6	59

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73	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
74	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
75	A Deep Learning Approach to Galaxy Cluster X-Ray Masses. Astrophysical Journal, 2019, 876, 82.	1.6	55
76	Interacting galaxies in the IllustrisTNG simulations – II: star formation in the post-merger stage. Monthly Notices of the Royal Astronomical Society, 2020, 493, 3716-3731.	1.6	53
77	The dynamics of galaxy pairs in a cosmological setting. Monthly Notices of the Royal Astronomical Society, 2013, 436, 1765-1786.	1.6	52
78	Spatially resolved star formation and fuelling in galaxy interactions. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3113-3133.	1.6	52
79	Interacting galaxies in the IllustrisTNG simulations - I: Triggered star formation in a cosmological context. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4969-4985.	1.6	49
80	Why do high-redshift galaxies show diverse gas-phase metallicity gradients?. Monthly Notices of the Royal Astronomical Society, 0, , stx034.	1.6	46
81	Hydrogen reionization in the Illustris universe. Monthly Notices of the Royal Astronomical Society, 2015, 453, 3594-3611.	1.6	44
82	Galaxy mergers moulding the circum-galactic medium – I. The impact of a major merger. Monthly Notices of the Royal Astronomical Society, 2018, 475, 1160-1176.	1.6	44
83	An instability of feedback-regulated star formation in galactic nuclei. Monthly Notices of the Royal Astronomical Society, 2017, 467, 2301-2314.	1.6	42
84	Mg ii Absorption at 2Â<ÂZÂ<Â7 with Magellan/Fire. III. Full Statistics of Absorption toward 100 High-redshift QSOs*. Astrophysical Journal, 2017, 850, 188.	1.6	42
85	The neutral gas content of post-merger galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 448, 221-236.	1.6	41
86	HOT GASEOUS CORONAE AROUND SPIRAL GALAXIES: PROBING THE ILLUSTRIS SIMULATION. Astrophysical Journal, 2015, 804, 72.	1.6	40
87	Gas-phase metallicity gradients of TNG50 star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3024-3048.	1.6	40
88	Galaxy pairs in the Sloan Digital Sky Survey – X. Does gas content alter star formation rate enhancement in galaxy interactions?. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3719-3740.	1.6	39
89	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
90	Dust in and around galaxies: dust in cluster environments and its impact on gas cooling. Monthly Notices of the Royal Astronomical Society, 2019, 487, 4870-4883.	1.6	38

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91	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
92	THE INCIDENCE OF LOW-METALLICITY LYMAN-LIMIT SYSTEMS AT <i>z</i> â^¼ 3.5: IMPLICATIONS FOR THE COLD-FLOW HYPOTHESIS OF BARYONIC ACCRETION. Astrophysical Journal, 2015, 812, 58.	1.6	33
93	Quiescent ultra-diffuse galaxies in the field originating from backsplash orbits. Nature Astronomy, 2021, 5, 1255-1260.	4.2	32
94	The mass profile of the Milky Way to the virial radius from the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2016, 461, 3483-3493.	1.6	31
95	High-redshift <i>JWST</i> 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
96	The impact of AGN wind feedback in simulations of isolated galaxies with a multiphase ISM. Monthly Notices of the Royal Astronomical Society, 2020, 497, 5292-5308.	1.6	30
97	H <i>α</i> emission in local galaxies: star formation, time variability, and the diffuse ionized gas. Monthly Notices of the Royal Astronomical Society, 2022, 513, 2904-2929.	1.6	29
98	Empirical constraints for the magnitude and composition of galactic winds. Astrophysics and Space Science, 2014, 349, 873-879.	0.5	27
99	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
100	Baryons in the Cosmic Web of IllustrisTNG – II. The connection among galaxies, haloes, their formation time, and their location in the Cosmic Web. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5747-5758.	1.6	27
101	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
102	Early-type galaxy density profiles from IllustrisTNG – I. Galaxy correlations and the impact of baryons. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5188-5215.	1.6	26
103	High-redshift predictions from IllustrisTNG – 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
104	Formation and evolution of young massive clusters in galaxy mergers: the <tt>SMUGGLE</tt> view. Monthly Notices of the Royal Astronomical Society, 2022, 514, 265-279.	1.6	26
105	Galaxy interactions in IllustrisTNG-100, I: The power and limitations of visual identification. Monthly Notices of the Royal Astronomical Society, 2020, 492, 2075-2094.	1.6	25
106	The missing satellite problem in 3D. Monthly Notices of the Royal Astronomical Society, 2016, 462, 4473-4481.	1.6	24
107	About AGN ionization echoes, thermal echoes and ionization deficits in low-redshift Lyα blobs. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1554-1586.	1.6	24
108	Forward and backward galaxy evolution in comoving cumulative number density space. Monthly Notices of the Royal Astronomical Society, 2017, 467, 4872-4885.	1.6	24

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109	Galaxies in the Illustris simulation as seen by the Sloan Digital Sky Survey - I: Bulge+disc decompositions, methods, and biases Monthly Notices of the Royal Astronomical Society, 0, , stx017.	1.6	23
110	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
111	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
112	Galaxy Zoo: Morphological Classification of Galaxy Images from the Illustris Simulation. Astrophysical Journal, 2018, 853, 194.	1.6	20
113	Submillimetre galaxies in cosmological hydrodynamical simulations – an opportunity for constraining feedback models. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2922-2933.	1.6	20
114	The effects of subgrid models on the properties of giant molecular clouds in galaxy formation simulations. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5862-5872.	1.6	20
115	An improved probabilistic approach for linking progenitor and descendant galaxy populations using comoving number density. Monthly Notices of the Royal Astronomical Society, 2017, 467, 3887-3897.	1.6	19
116	Early-type galaxy density profiles from IllustrisTNG – II. Evolutionary trend of the total density profile. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5722-5738.	1.6	19
117	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
118	Degeneracies between self-interacting dark matter and supernova feedback as cusp-core transformation mechanisms. Monthly Notices of the Royal Astronomical Society, 2022, 513, 3458-3481.	1.6	18
119	Morphological Types of DM Halos in Milky Way-like Galaxies in the TNG50 Simulation: Simple, Twisted, or Stretched. Astrophysical Journal, 2021, 913, 36.	1.6	15
120	The origin of the dust extinction curve in milky way-like galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 507, 548-559.	1.6	15
121	THE CALIFA AND HIPASS CIRCULAR VELOCITY FUNCTION FOR ALL MORPHOLOGICAL GALAXY TYPES. Astrophysical Journal Letters, 2016, 827, L36.	3.0	11
122	Variations in the slope of the resolved star-forming main sequence: a tool for constraining the mass of star-forming regions. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 493, L87-L91.	1.2	10
123	Dust entrainment in galactic winds. Monthly Notices of the Royal Astronomical Society, 2021, 503, 336-343.	1.6	9
124	Inferring the Morphology of Stellar Distribution in TNG50: Twisted and Twisted-stretched Shapes. Astrophysical Journal, 2021, 918, 7.	1.6	9
125	The slow flow model of dust efflux in local star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2013, 436, 1852-1866.	1.6	7
126	The large-scale distribution of ionized metals in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2021, 510, 399-412.	1.6	6

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#	Article	IF	CITATIONS
127	Impact of gas-based seeding on supermassive black hole populations at <i>z</i> ≥ 7. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2012-2036.	1.6	5
128	FIRST J1419+3940 as the First Observed Radio Flare from a Neutron Star Merger. Astrophysical Journal Letters, 2020, 902, L23.	3.0	5
129	On the cosmic evolution of Fe/Mg in QSO absorption line systems. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1806-1814.	1.6	4
130	Simulating dust grain-radiation coupling on a moving mesh. Monthly Notices of the Royal Astronomical Society, 2021, 502, 1344-1354.	1.6	4
131	Where Binary Neutron Stars Merge: Predictions from IllustrisTNG. Astrophysical Journal, 2021, 909, 207.	1.6	4
132	Impact of gas spin and Lyman–Werner flux on black hole seed formation in cosmological simulations: implications for direct collapse. Monthly Notices of the Royal Astronomical Society, 2021, 510, 177-196.	1.6	3
133	Modeling the Observability of Recoiling Black Holes as Offset Quasars. Proceedings of the International Astronomical Union, 2015, 11, 317-318.	0.0	0
134	The TNG50 Simulation of the IllustrisTNG Project: Bridging the Gap Between Large Cosmological Volumes and Resolved Galaxies. , 2019, , 5-20.		0
135	The TNG50 Simulation: Highly-Resolved Galaxies in a Large Cosmological Volume to the Present Day. , 2021, , 5-22.		0