

Lars Hernquist

List of Publications by Year in descending order

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Version: 2024-02-01

249
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47,742
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docs citations

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times ranked

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The dust-continuum size of TNG50 galaxies at $z=1$: 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 |
| 2 | 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. | 4.4 | 26 |
| 3 | Dynamics of intermediate-mass black holes wandering in the milky way galaxy using the illustris TNG50 simulation. Monthly Notices of the Royal Astronomical Society, 2022, 511, 2229-2238. | 4.4 | 9 |
| 4 | Mass of the dynamically hot inner stellar halo predicts the ancient accreted stellar mass. Astronomy and Astrophysics, 2022, 660, A20. | 5.1 | 15 |
| 5 | Fast, Slow, Early, Late: Quenching Massive Galaxies at $z \sim 0.8$. Astrophysical Journal, 2022, 926, 134. | 4.5 | 70 |
| 6 | First Results from SMAUG: Insights into Star Formation Conditions from Spatially Resolved ISM Properties in TNG50. Astrophysical Journal, 2022, 926, 139. | 4.5 | 3 |
| 7 | 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 |
| 8 | Galactic angular momentum in the IllustrisTNG simulation I. Connection to morphology, halo spin, and black hole mass. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5978-5994. | 4.4 | 21 |
| 9 | Formation and fate of low-metallicity stars in TNG50. Monthly Notices of the Royal Astronomical Society, 2022, 512, 3602-3615. | 4.4 | 4 |
| 10 | High and low S ₄₀₀₀ index bulges in Milky Way- and M31-like galaxies: origin and connection to the bar with TNG50. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2537-2555. | 4.4 | 9 |
| 11 | H _α emission in local galaxies: star formation, time variability, and the diffuse ionized gas. Monthly Notices of the Royal Astronomical Society, 2022, 513, 2904-2929. | 4.4 | 29 |
| 12 | Finding Universal Relations in Subhalo Properties with Artificial Intelligence. Astrophysical Journal, 2022, 927, 85. | 4.5 | 21 |
| 13 | Percent-level constraints on baryonic feedback with spectral distortion measurements. Physical Review D, 2022, 105, . | 4.7 | 6 |
| 14 | Breaking baryon-cosmology degeneracy with the electron density power spectrum. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 046. | 5.4 | 11 |
| 15 | Early-type galaxy density profiles from IllustrisTNG III. Effects on outer kinematic structure. Monthly Notices of the Royal Astronomical Society, 2022, 513, 6134-6151. | 4.4 | 3 |
| 16 | The formation of low surface brightness galaxies in the IllustrisTNG simulation. Monthly Notices of the Royal Astronomical Society, 2022, 514, 5840-5852. | 4.4 | 8 |
| 17 | The formation of the first quasars: the black hole seeds, accretion, and feedback models. Monthly Notices of the Royal Astronomical Society, 2022, 514, 5583-5606. | 4.4 | 10 |
| 18 | The <sc>thesan</sc> project: predictions for multitracer line intensity mapping in the epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2022, 514, 3857-3878. | 4.4 | 31 |

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| 19 | Morphological decomposition of TNG50 galaxies: methodology and catalogue. Monthly Notices of the Royal Astronomical Society, 2022, 515, 1524-1543. | 4.4 | 12 |
| 20 | 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 |
| 21 | The Low-redshift Ly α Forest as a Constraint for Models of AGN Feedback. Astrophysical Journal Letters, 2022, 933, L46. | 8.3 | 8 |
| 22 | The Circumgalactic Medium from the CAMELS Simulations: Forecasting Constraints on Feedback Processes from Future Sunyaevâ€Zeldovich Observations. Astrophysical Journal, 2022, 933, 133. | 4.5 | 11 |
| 23 | Spatially resolved star formation and fuelling in galaxy interactions. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3113-3133. | 4.4 | 52 |
| 24 | The TNG50 Simulation: Highly-Resolved Galaxies in a Large Cosmological Volume to the Present Day. , 2021,, 5-22. | | 0 |
| 25 | 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 |
| 26 | 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. | 4.4 | 11 |
| 27 | Supermassive black holes in cosmological simulations I: $\langle M_{\text{BH}} \rangle$ relation and black hole mass function. Monthly Notices of the Royal Astronomical Society, 2021, 503, 1940-1975. | 4.4 | 63 |
| 28 | Characterizing hydrostatic mass bias with $\langle \text{mock-X} \rangle$. Monthly Notices of the Royal Astronomical Society, 2021, 506, 2533-2550. | 4.4 | 22 |
| 29 | Morphological Types of DM Halos in Milky Way-like Galaxies in the TNG50 Simulation: Simple, Twisted, or Stretched. Astrophysical Journal, 2021, 913, 36. | 4.5 | 15 |
| 30 | Anisotropic satellite galaxy quenching modulated by black hole activity. Nature, 2021, 594, 187-190. | 27.8 | 27 |
| 31 | How Flat Can a Planetary System Get? I. The Case of TRAPPIST-1. Astrophysical Journal, 2021, 913, 126. | 4.5 | 2 |
| 32 | 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 |
| 33 | The CAMELS Project: Cosmology and Astrophysics with Machine-learning Simulations. Astrophysical Journal, 2021, 915, 71. | 4.5 | 113 |
| 34 | 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 |
| 35 | Efficient early stellar feedback can suppress galactic outflows by reducing supernova clustering. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3882-3915. | 4.4 | 48 |
| 36 | Inferring the Morphology of Stellar Distribution in TNG50: Twisted and Twisted-stretched Shapes. Astrophysical Journal, 2021, 918, 7. | 4.5 | 9 |

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|----|--|------|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Impact of gas-based seeding on supermassive black hole populations at $z \approx 7$. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2012-2036. | 4.4 | 5 |
| 40 | Cosmological Simulations of Quasar Fueling to Subparsec Scales Using Lagrangian Hyper-refinement. Astrophysical Journal, 2021, 917, 53. | 4.5 | 49 |
| 41 | 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 |
| 42 | Galaxy assembly bias and large-scale distribution: a comparison between IllustrisTNG and a semi-analytic model. Monthly Notices of the Royal Astronomical Society, 2021, 508, 698-718. | 4.4 | 22 |
| 43 | 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 |
| 44 | Fragmentation of ring galaxies and transformation to clumpy galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 507, 6140-6147. | 4.4 | 2 |
| 45 | Quiescent ultra-diffuse galaxies in the field originating from backsplash orbits. Nature Astronomy, 2021, 5, 1255-1260. | 10.1 | 32 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | The Evolutionary Pathways of Disk-, Bulge-, and Halo-dominated Galaxies. Astrophysical Journal, 2021, 919, 135. | 4.5 | 15 |
| 50 | Quenched, bulge-dominated, but dynamically cold galaxies in IllustrisTNG and their real-world counterparts. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5062-5074. | 4.4 | 2 |
| 51 | Supermassive black holes in cosmological simulations – 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 |
| 52 | From large-scale environment to CGM angular momentum to star-forming activities – I. Star-forming galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3148-3162. | 4.4 | 17 |
| 53 | Impact of gas spin and Lyman- α flux on black hole seed formation in cosmological simulations: implications for direct collapse. Monthly Notices of the Royal Astronomical Society, 2021, 510, 177-196. | 4.4 | 3 |
| 54 | The large-scale distribution of ionized metals in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2021, 510, 399-412. | 4.4 | 6 |

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| 55 | 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 |
| 56 | Resolving small-scale cold circumgalactic gas in TNG50. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 2391-2414. | 4.4 | 100 |
| 57 | Kinematic Decomposition of IllustrisTNG Disk Galaxies: Morphology and Relation with Morphological Structures. <i>Astrophysical Journal</i> , 2020, 895, 139. | 4.5 | 22 |
| 58 | Predictions for the angular dependence of gas mass flow rate and metallicity in the circumgalactic medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 2462-2473. | 4.4 | 58 |
| 59 | The formation of ultradiffuse galaxies in clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1848-1858. | 4.4 | 68 |
| 60 | The fate of disc galaxies in IllustrisTNG clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 2673-2703. | 4.4 | 53 |
| 61 | Limitations to the Λ -CDM HOD model and beyond. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 5506-5519. | 4.4 | 60 |
| 62 | A redshift-dependent τ_{dust} dust attenuation relation for TNG50 galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4773-4794. | 4.4 | 21 |
| 63 | 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. | 4.4 | 62 |
| 64 | The effect of differential accretion on the gravitational wave background and the present-day MBH binary population. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 537-547. | 4.4 | 20 |
| 65 | Tidally induced warps of spiral galaxies in IllustrisTNG. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 3535-3548. | 4.4 | 18 |
| 66 | 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 |
| 67 | High-redshift JWST predictions from IllustrisTNG: II. Galaxy line and continuum spectral indices and dust attenuation curves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 4747-4768. | 4.4 | 31 |
| 68 | Galaxy formation with Λ CDM II. Cosmic filaments and first galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 2027-2044. | 4.4 | 58 |
| 69 | Early-type galaxy density profiles from IllustrisTNG I. Galaxy correlations and the impact of baryons. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 5188-5215. | 4.4 | 26 |
| 70 | X-ray signatures of black hole feedback: hot galactic atmospheres in IllustrisTNG and X-ray observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 549-570. | 4.4 | 44 |
| 71 | A missing outskirts problem? Comparisons between stellar haloes in the Dragonfly Nearby Galaxies Survey and the TNG100 simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 4570-4604. | 4.4 | 31 |
| 72 | Redshift evolution of the Fundamental Plane relation in the IllustrisTNG simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 5930-5939. | 4.4 | 12 |

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| 73 | Cosmological insights into the assembly of the radial and compact stellar halo of the Milky Way. Monthly Notices of the Royal Astronomical Society, 2020, 495, 29-39. | 4.4 | 19 |
| 74 | 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. | 4.4 | 99 |
| 75 | 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. | 4.4 | 27 |
| 76 | Galaxy interactions in IllustrisTNG-100, I: The power and limitations of visual identification. Monthly Notices of the Royal Astronomical Society, 2020, 492, 2075-2094. | 4.4 | 25 |
| 77 | 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 |
| 78 | The Formation History of Subhalos and the Evolution of Satellite Galaxies. Astrophysical Journal, 2020, 893, 139. | 4.5 | 14 |
| 79 | Efficacy of early stellar feedback in low gas surface density environments. Monthly Notices of the Royal Astronomical Society, 2020, 491, 2088-2103. | 4.4 | 28 |
| 80 | 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 |
| 81 | 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. | 4.4 | 27 |
| 82 | The kinematics and dark matter fractions of TNG50 galaxies at $z = 2$ from an observational perspective. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4597-4619. | 4.4 | 17 |
| 83 | 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 |
| 84 | Extensions to models of the galaxy–halo connection. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1603-1620. | 4.4 | 36 |
| 85 | The Angular Momentum of the Circumgalactic Medium in the TNG100 Simulation. Astrophysical Journal, 2020, 895, 17. | 4.5 | 26 |
| 86 | Correlations between Black Holes and Host Galaxies in the Illustris and IllustrisTNG Simulations. Astrophysical Journal, 2020, 895, 102. | 4.5 | 24 |
| 87 | First Results from SMAUG: Characterization of Multiphase Galactic Outflows from a Suite of Local Star-forming Galactic Disk Simulations. Astrophysical Journal, 2020, 900, 61. | 4.5 | 68 |
| 88 | 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. | 4.5 | 38 |
| 89 | First Results from SMAUG: The Need for Preventative Stellar Feedback and Improved Baryon Cycling in Semianalytic Models of Galaxy Formation. Astrophysical Journal, 2020, 905, 4. | 4.5 | 25 |
| 90 | A Framework for Multiphase Galactic Wind Launching Using TIGRESS. Astrophysical Journal Letters, 2020, 903, L34. | 8.3 | 27 |

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| 91 | Stellar and weak lensing profiles of massive galaxies in the Hyper-Suprime Cam survey and in hydrodynamic simulations. Monthly Notices of the Royal Astronomical Society, 2020, 500, 432-447. | 4.4 | 15 |
| 92 | The IllustrisTNG simulations: public data release. Computational Astrophysics and Cosmology, 2019, 6, . | 22.7 | 698 |
| 93 | Simulating the effect of photoheating feedback during reionization. Monthly Notices of the Royal Astronomical Society, 2019, 488, 419-437. | 4.4 | 23 |
| 94 | 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 |
| 95 | 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 |
| 96 | 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 |
| 97 | Revealing the galaxy-halo connection in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5693-5711. | 4.4 | 59 |
| 98 | Imprints of temperature fluctuations on the $z \sim 5$ Lyman- α forest: a view from radiation-hydrodynamic simulations of reionization. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3177-3195. | 4.4 | 33 |
| 99 | Deep learning predictions of galaxy merger stage and the importance of observational realism. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5390-5413. | 4.4 | 69 |
| 100 | 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. | 4.4 | 19 |
| 101 | Identifying Kinematic Structures in Simulated Galaxies Using Unsupervised Machine Learning. Astrophysical Journal, 2019, 884, 129. | 4.5 | 21 |
| 102 | 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 |
| 103 | First Star-Forming Structures in Fuzzy Cosmic Filaments. Physical Review Letters, 2019, 123, 141301. | 7.8 | 94 |
| 104 | Implications of a Time-varying Galactic Potential for Determinations of the Dynamical Surface Density. Astrophysical Journal Letters, 2019, 879, L15. | 8.3 | 22 |
| 105 | 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 |
| 106 | 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 |
| 107 | Shape of dark matter haloes in the Illustris simulation: effects of baryons. Monthly Notices of the Royal Astronomical Society, 2019, 484, 476-493. | 4.4 | 71 |
| 108 | A Quantification of the Butterfly Effect in Cosmological Simulations and Implications for Galaxy Scaling Relations. Astrophysical Journal, 2019, 871, 21. | 4.5 | 65 |

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| 109 | Automated distant galaxy merger classifications from Space Telescope images using the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3702-3720. | 4.4 | 38 |
| 110 | On the Origin of Starâ€“Gas Counterrotation in Low-mass Galaxies. Astrophysical Journal, 2019, 878, 143. | 4.5 | 37 |
| 111 | Atomic and molecular gas in IllustrisTNG galaxies at low redshift. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1529-1550. | 4.4 | 67 |
| 112 | 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 |
| 113 | Extreme spheres: counts-in-cells for 21cm intensity mapping. Monthly Notices of the Royal Astronomical Society, 2019, 484, 269-281. | 4.4 | 10 |
| 114 | Baryons in the Cosmic Web of IllustrisTNG â€“ I: gas in knots, filaments, sheets, and voids. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3766-3787. | 4.4 | 120 |
| 115 | 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. | 4.4 | 75 |
| 116 | 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 |
| 117 | Massive BH binaries as periodically variable AGN. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1579-1594. | 4.4 | 44 |
| 118 | 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 |
| 119 | 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 |
| 120 | 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 |
| 121 | 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 |
| 122 | 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 |
| 123 | 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 |
| 124 | Antlia 2â€™s Role in Driving the Ripples in the Outer Gas Disk of the Galaxy. Astrophysical Journal, 2019, 886, 67. | 4.5 | 12 |
| 125 | The abundance, distribution, and physical nature of highly ionized oxygen Oâ€™vi, Oâ€™vii, and Oâ€™viii in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2018, 477, 450-479. | 4.4 | 133 |
| 126 | First results from the IllustrisTNG simulations: the galaxy colour bimodality. Monthly Notices of the Royal Astronomical Society, 2018, 475, 624-647. | 4.4 | 894 |

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| 127 | 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 |
| 128 | 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 |
| 129 | Simulating galaxy formation with the IllustrisTNG model. Monthly Notices of the Royal Astronomical Society, 2018, 473, 4077-4106. | 4.4 | 1,144 |
| 130 | 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 |
| 131 | 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 |
| 132 | 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 |
| 133 | Single sources in the low-frequency gravitational wave sky: properties and time to detection by pulsar timing arrays. Monthly Notices of the Royal Astronomical Society, 2018, 477, 964-976. | 4.4 | 61 |
| 134 | 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 |
| 135 | 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 |
| 136 | A census of cool-core galaxy clusters in IllustrisTNG. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1809-1831. | 4.4 | 68 |
| 137 | Stellar halos in Illustris: probing the histories of Milky Way-mass galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 479, 4004-4016. | 4.4 | 35 |
| 138 | Formation and incidence of shell galaxies in the Illustris simulation. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1715-1739. | 4.4 | 55 |
| 139 | Ingredients for 21 cm Intensity Mapping. Astrophysical Journal, 2018, 866, 135. | 4.5 | 139 |
| 140 | Modeling the Atomic-to-molecular Transition in Cosmological Simulations of Galaxy Formation. Astrophysical Journal, Supplement Series, 2018, 238, 33. | 7.7 | 71 |
| 141 | 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 |
| 142 | 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 |
| 143 | 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 |
| 144 | On the OVI abundance in the circumgalactic medium of low-redshift galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 465, 2966-2982. | 4.4 | 58 |

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| 145 | Moving-mesh Simulations of Star-forming Cores in Magneto-gravo-turbulence. <i>Astrophysical Journal</i> , 2017, 838, 40. | 4.5 | 69 |
| 146 | Simulating galaxy formation with black hole driven thermal and kinetic feedback. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 3291-3308. | 4.4 | 725 |
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