

# Hao-Ran Yu

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

491  
citations

687363

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677142

22  
g-index

26  
all docs

26  
docs citations

26  
times ranked

484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity tests of cosmic velocity fields to massive neutrinos. Monthly Notices of the Royal Astronomical Society, 2022, 512, 3319-3330.	4.4	6
2	Spin conservation of cosmic filaments. Physical Review D, 2022, 105, .	4.7	4
3	Correlating galaxy shapes and initial conditions: An observational study. Physical Review D, 2022, 105, .	4.7	3
4	Observational search for primordial chirality violations using galaxy angular momenta. Physical Review D, 2022, 105, .	4.7	8
5	An observed correlation between galaxy spins and initial conditions. Nature Astronomy, 2021, 5, 283-288.	10.1	26
6	Spin mode reconstruction in Lagrangian space. Physical Review D, 2021, 103, .	4.7	4
7	Neutrino effects on the morphology of cosmic large-scale structure. Physical Review D, 2020, 101, .	4.7	12
8	CUBE – Towards an Optimal Scaling of Cosmological N-body Simulations. , 2020, , .		8
9	Probing Primordial Chirality with Galaxy Spins. Physical Review Letters, 2020, 124, 101302.	7.8	23
10	Simulating the Cosmic Neutrino Background Using Collisionless Hydrodynamics. Astrophysical Journal, Supplement Series, 2020, 250, 21.	7.7	11
11	Parity-odd neutrino torque detection. Physical Review D, 2019, 99, .	4.7	17
12	CUBE: An Information-optimized Parallel Cosmological N-body Algorithm. Astrophysical Journal, Supplement Series, 2018, 237, 24.	7.7	18
13	The Effect of Massive Neutrinos on the Position of Cold Dark Matter Halo: Revealed via the Delaunay Triangulation Void. Astrophysical Journal, 2018, 862, 60.	4.5	4
14	On the non-Poissonian repetition pattern of FRB121102. Monthly Notices of the Royal Astronomical Society, 2018, 475, 5109-5115.	4.4	87
15	Differential neutrino condensation onto cosmic structure. Nature Astronomy, 2017, 1, .	10.1	25
16	Nonlinear $\langle \mathbf{E} \rangle$ -mode clustering in Lagrangian space. Physical Review D, 2017, 95, .	4.7	9
17	Simulating the cold dark matter-neutrino dipole with TianNu. Physical Review D, 2017, 95, .	4.7	22
18	Cosmological neutrino simulations at extreme scale. Research in Astronomy and Astrophysics, 2017, 17, 085.	1.7	46

#	ARTICLE	IF	CITATIONS
19	Nonlinear reconstruction. Physical Review D, 2017, 96, .	4.7	33
20	Isobaric Reconstruction of the Baryonic Acoustic Oscillation. Astrophysical Journal Letters, 2017, 841, L29.	8.3	27
21	Increasing Fisher information by Potential Isobaric Reconstruction. Monthly Notices of the Royal Astronomical Society, 2017, 469, 1968-1973.	4.4	15
22	Precision reconstruction of the cold dark matter-neutrino relative velocity from $\langle N \rangle$ -body simulations. Physical Review D, 2015, 92, .	4.7	43
23	Method for Direct Measurement of Cosmic Acceleration by 21-cm Absorption Systems. Physical Review Letters, 2014, 113, 041303.	7.8	30
24	Optimizing the recovery of Fisher information in the dark matter power spectrum. Monthly Notices of the Royal Astronomical Society, 2013, 436, 759-773.	4.4	4
25	Information content in the angular power spectrum of weak lensing: wavelet method. Monthly Notices of the Royal Astronomical Society, 2011, , no-no.	4.4	6