Salman Habib

List of Publications by Year
in descending order

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Version: 2024-02-01

40 papers	2,669 citations	218677 26 h-index	330143 37 g-index
40 all docs	40 docs citations	40 times ranked	2068 citing authors

#	Article	IF	Citations
1	THE COYOTE UNIVERSE. II. COSMOLOGICAL MODELS AND PRECISION EMULATION OF THE NONLINEAR MATTER POWER SPECTRUM. Astrophysical Journal, 2009, 705, 156-174.	4.5	211
2	THE COYOTE UNIVERSE EXTENDED: PRECISION EMULATION OF THE MATTER POWER SPECTRUM. Astrophysical Journal, 2014, 780, 111.	4.5	206
3	The Halo Mass Function: Highâ€Redshift Evolution and Universality. Astrophysical Journal, 2007, 671, 1160-1181.	4.5	184
4	THE COYOTE UNIVERSE. III. SIMULATION SUITE AND PRECISION EMULATOR FOR THE NONLINEAR MATTER POWER SPECTRUM. Astrophysical Journal, 2010, 713, 1322-1331.	4.5	179
5	HACC: Simulating sky surveys on state-of-the-art supercomputing architectures. New Astronomy, 2016, 42, 49-65.	1.8	166
6	MASS FUNCTION PREDICTIONS BEYOND Î›CDM. Astrophysical Journal, 2011, 732, 122.	4.5	164
7	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: structure growth rate measurement from the anisotropic quasar power spectrum in the redshift range 0.8Â<ÂzÂ<Â2.2. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1604-1638.	4.4	118
8	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: measurement of the growth rate of structure from the anisotropic correlation function between redshift 0.8 and 2.2. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1639-1663.	4.4	109
9	Cosmic web, multistream flows, and tessellations. Physical Review D, 2012, 85, .	4.7	104
10	THE MIRAâ€“TITAN UNIVERSE: PRECISION PREDICTIONS FOR DARK ENERGY SURVEYS. Astrophysical Journal, 2016, 820, 108.	4.5	100
11	The Mira-Titan Universe. II. Matter Power Spectrum Emulation. Astrophysical Journal, 2017, 847, 50.	4.5	98
12	Cosmic calibration: Constraints from the matter power spectrum and the cosmic microwave background. Physical Review D, 2007, 76, .	4.7	92
13	Halo Profiles and the Concentrationâ€“Mass Relation for a Î›CDM Universe. Astrophysical Journal, 2018, 859, 55.	4.5	83
14	COSMIC EMULATION: FAST PREDICTIONS FOR THE GALAXY POWER SPECTRUM. Astrophysical Journal, 2015, 810, 35.	4.5	74
15	Cosmic Calibration. Astrophysical Journal, 2006, 646, L1-L4.	4.5	73
16	The Outer Rim Simulation: A Path to Many-core Supercomputers. Astrophysical Journal, Supplement Series, 2019, 245, 16.	7.7	67
17	CosmoDC2: A Synthetic Sky Catalog for Dark Energy Science with LSST. Astrophysical Journal, Supplement Series, 2019, 245, 26.	7.7	67
18	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: anisotropic clustering analysis in configuration space. Monthly Notices of the Royal Astronomical Society, 2018, 480, 2521-2534.	4.4	61

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19	The Mira-Titan Universe. III. Emulation of the Halo Mass Function. Astrophysical Journal, 2020, 901, 5.	4.5	58
20	COSMIC EMULATION: THE CONCENTRATION-MASS RELATION FORwCDM UNIVERSES. Astrophysical Journal, 2013, 768, 123.	4.5	44
21	Capturing Halos at High Redshifts. Astrophysical Journal, 2006, 642, L85-L88.	4.5	42
22	THE Q CONTINUUM SIMULATION: HARNESSING THE POWER OF GPU ACCELERATED SUPERCOMPUTERS. Astrophysical Journal, Supplement Series, 2015, 219, 34.	7.7	41
23	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: N-body mock challenge for the quasar sample. Monthly Notices of the Royal Astronomical Society, 2020, 499, 269-291.	4.4	41
24	Large-scale structure formation with massive neutrinos and dynamical dark energy. Physical Review D, 2014, 89, .	4.7	36
25	SIMULATIONS OF THE PAIRWISE KINEMATIC SUNYAEVâ€“ZELâ€™DOVICH SIGNAL. Astrophysical Journal, 2016, 823, 98.	4.5	32
26	The LSST DESC DC2 Simulated Sky Survey. Astrophysical Journal, Supplement Series, 2021, 253, 31.	7.7	32
27	Redshift-space distortions in massive neutrino and evolving dark energy cosmologies. Physical Review D, 2016, 93, .	4.7	25
28	Large-scale compute-intensive analysis via a combined in-situ and co-scheduling workflow approach. , 2015, , .		25
29	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: N-body mock challenge for the eBOSS emission line galaxy sample. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4667-4686.	4.4	22
30	The Completed SDSS-IV Extended Baryon Oscillation Spectroscopic Survey: N-body Mock Challenge for Galaxy Clustering Measurements. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	19
31	DESCQA: An Automated Validation Framework for Synthetic Sky Catalogs. Astrophysical Journal, Supplement Series, 2018, 234, 36.	7.7	18
32	HACC Cosmological Simulations: First Data Release. Astrophysical Journal, Supplement Series, 2019, 244, 17.	7.7	17
33	The Borg Cube Simulation: Cosmological Hydrodynamics with CRK-SPH. Astrophysical Journal, 2019, 877, 85.	4.5	14
34	The Last Journey. I. An Extreme-scale Simulation on the Mira Supercomputer. Astrophysical Journal, Supplement Series, 2021, 252, 19.	7.7	12
35	Farpoint: A High-resolution Cosmology Simulation at the Gigaparsec Scale. Astrophysical Journal, Supplement Series, 2022, 259, 15.	7.7	9
36	The Importance of Secondary Halos for Strong Lensing in Massive Galaxy Clusters across Redshift. Astrophysical Journal, 2019, 878, 122.	4.5	8

#	Article	IF	Citations
37	Parallel DTFE Surface Density Field Reconstruction. , 2016, , .		6
38	Why are we still using 3D masses for cluster cosmology?. Monthly Notices of the Royal Astronomical Society, 2022, 515, 3383-3405.	4.4	6
39	Machine learning synthetic spectra for probabilistic redshift estimation: SYTH-Z. Monthly Notices of the Royal Astronomical Society, 2022, 515, 1927-1941.	4.4	4
40	The Last Journey. II. SMACCâ€"Subhalo Mass-loss Analysis Using Core Catalogs. Astrophysical Journal, 2021, 913, 109.	4.5	2