

Zachary Slepian

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,743
citations

471509

17
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

2384
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving the line of sight for the anisotropic 3-point correlation function of galaxies: Centroid and Unit-Vector-Average methods scaling as $\langle \delta^2 \rangle$ ($\langle \delta^2 \rangle$). Monthly Notices of the Royal Astronomical Society, 2022, 515, 1199-1217.	4.4	4
2	On decoupling the integrals of cosmological perturbation theory. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1337-1360.	4.4	4
3	Classification of Magnetohydrodynamic Simulations Using Wavelet Scattering Transforms. Astrophysical Journal, 2021, 910, 122.	4.5	25
4	Kepler's Goat Herd: An exact solution to Kepler's equation for elliptical orbits. Monthly Notices of the Royal Astronomical Society, 2021, 506, 6111-6116.	4.4	9
5	Information content of higher order galaxy correlation functions. Monthly Notices of the Royal Astronomical Society, 2021, 505, 628-641.	4.4	17
6	Beyond the Yamamoto approximation: Anisotropic power spectra and correlation functions with pairwise lines of sight. Physical Review D, 2021, 103, .	4.7	6
7	$\langle \delta^2 \rangle$: an $\langle \delta^2 \rangle$ estimator for galaxy $\langle \delta^2 \rangle$ -point correlation functions. Monthly Notices of the Royal Astronomical Society, 2021, 509, 2457-2481.	4.4	15
8	Towards testing the theory of gravity with DESI: summary statistics, model predictions and future simulation requirements. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 050.	5.4	41
9	Clustering in massive neutrino cosmologies via Eulerian Perturbation Theory. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 028.	5.4	14
10	Accelerating computation of the density-field filtering scale $\tilde{f}(R)$ and non-linear mass by an order of magnitude. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4439-4447.	4.4	2
11	Automatic Kalman-filter-based wavelet shrinkage denoising of 1D stellar spectra. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5249-5269.	4.4	8
12	Overview of the DESI Legacy Imaging Surveys. Astronomical Journal, 2019, 157, 168.	4.7	825
13	Constraining the baryon-dark matter relative velocity with the large-scale three-point correlation function of the SDSS BOSS DR12 CMASS galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 474, 2109-2115.	4.4	26
14	Developing the 3-point Correlation Function for the Turbulent Interstellar Medium. Astrophysical Journal, 2018, 862, 119.	4.5	22
15	Bispectrum as baryon acoustic oscillation interferometer. Physical Review D, 2018, 98, .	4.7	10
16	nbodykit: An Open-source, Massively Parallel Toolkit for Large-scale Structure. Astronomical Journal, 2018, 156, 160.	4.7	182
17	A practical computational method for the anisotropic redshift-space three-point correlation function. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1468-1483.	4.4	36
18	Too hot to handle? Analytic solutions for massive neutrino or warm dark matter cosmologies. Monthly Notices of the Royal Astronomical Society, 2018, 478, 516-529.	4.4	5

#	ARTICLE	IF	CITATIONS
19	The large-scale three-point correlation function of the SDSS BOSS DR12 CMASS galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 468, 1070-1083.	4.4	72
20	An optimal FFT-based anisotropic power spectrum estimator. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 002-002.	5.4	48
21	Galactos. , 2017, , .		5
22	Detection of baryon acoustic oscillation features in the large-scale three-point correlation function of SDSS BOSS DR12 CMASS galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 469, 1738-1751.	4.4	96
23	Modelling the large-scale redshift-space 3-point correlation function of galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 469, 2059-2076.	4.4	32
24	A simple analytic treatment of linear growth of structure with baryon acoustic oscillations. Monthly Notices of the Royal Astronomical Society, 2016, 457, 24-37.	4.4	12
25	Computing the three-point correlation function of galaxies in $\mathcal{O}(N^2)$ time. Monthly Notices of the Royal Astronomical Society, 2015, 454, 4142-4158.	4.4	70
26	On the signature of the baryon–dark matter relative velocity in the two- and three-point galaxy correlation functions. Monthly Notices of the Royal Astronomical Society, 2015, 448, 9-26.	4.4	42
27	Accelerating the two-point and three-point galaxy correlation functions using Fourier transforms. Monthly Notices of the Royal Astronomical Society: Letters, 2015, 455, L31-L35.	3.3	49
28	A one-parameter formula for testing slow-roll dark energy: observational prospects. Monthly Notices of the Royal Astronomical Society, 2014, 438, 1948-1970.	4.4	19
29	Ruling out bosonic repulsive dark matter in thermal equilibrium. Monthly Notices of the Royal Astronomical Society, 2012, 427, 839-849.	4.4	36
30	Dark energy as double N-flation - observational predictions. Monthly Notices of the Royal Astronomical Society, 2011, 416, 907-916.	4.4	11