Zachary Slepian

List of Publications by Year
in descending order

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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	Overview of the DESI Legacy Imaging Surveys. Astronomical Journal, 2019, 157, 168.	4.7	825
2	nbodykit: An Open-source, Massively Parallel Toolkit for Large-scale Structure. Astronomical Journal, 2018, 156, 160.	4.7	182
3	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
4	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
5	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
6	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
7	An optimal FFT-based anisotropic power spectrum estimator. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 002-002.	5.4	48
8	On the signature of the baryonâ€“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
9	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
10	Ruling out bosonic repulsive dark matter in thermal equilibrium. Monthly Notices of the Royal Astronomical Society, 2012, 427, 839-849.	4.4	36
11	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
12	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
13	Constraining the baryonâ€“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	Classification of Magnetohydrodynamic Simulations Using Wavelet Scattering Transforms. Astrophysical Journal, 2021, 910, 122.	4.5	25
15	Developing the 3-point Correlation Function for the Turbulent Interstellar Medium. Astrophysical Journal, 2018, 862, 119.	4.5	22
16	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
17	Information content of higher order galaxy correlation functions. Monthly Notices of the Royal Astronomical Society, 2021, 505, 628-641.	4.4	17
18	<scp>encore</scp>: an O (Ng2) estimator for galaxy N-point correlation functions. Monthly Notices of the Royal Astronomical Society, 2021, 509, 2457-2481.	4.4	15

#	Article	IF	Citations
19	Clustering in massive neutrino cosmologies via Eulerian Perturbation Theory. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 028.	5.4	14
20	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
21	Dark energy as double N-flation - observational predictions. Monthly Notices of the Royal Astronomical Society, 2011, 416, 907-916.	4.4	11
22	Bispectrum as baryon acoustic oscillation interferometer. Physical Review D, 2018, 98, .	4.7	10
23	Keplerâ€™s Goat Herd: An exact solution to Keplerâ€™s equation for elliptical orbits. Monthly Notices of the Royal Astronomical Society, 2021, 506, 6111-6116.	4.4	9
24	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
25	Beyond the Yamamoto approximation: Anisotropic power spectra and correlation functions with pairwise lines of sight. Physical Review D, 2021, 103, .	4.7	6
26	Galactos. , 2017, , .		5
27	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
28	On decoupling the integrals of cosmological perturbation theory. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1337-1360.	4.4	4
29	Improving the line of sight for the anisotropic 3-point correlation function of galaxies: Centroid and Unit-Vector-Average methods scaling as ? (N2). Monthly Notices of the Royal Astronomical Society, 2022, 515, 1199-1217.	4.4	4
30	Accelerating computation of the density-field filtering scale Ïƒ(R) and non-linear mass by an order of magnitude. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4439-4447.	4.4	2