Joachim Harnois-Déraps

List of Publications by Year
in descending order

57 papers	4,365 citations	159585 30 h-index	149698 56 g-index
57 all docs	57 docs citations	57 times ranked	2758 citing authors

#	Article	IF	Citations
1	CFHTLenS: the Canada–France–Hawaii Telescope Lensing Survey. Monthly Notices of the Royal Astronomical Society, 2012, 427, 146-166.	4.4	596
2	CFHTLenS tomographic weak lensing cosmological parameter constraints: Mitigating the impact of intrinsic galaxy alignments. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2433-2453.	4.4	506
3	CFHTLenS: combined probe cosmological model comparison using 2D weak gravitational lensing. Monthly Notices of the Royal Astronomical Society, 2013, 430, 2200-2220.	4.4	303
4	Gravitational lensing analysis of the Kilo-Degree Survey. Monthly Notices of the Royal Astronomical Society, 2015, 454, 3500-3532.	4.4	292
5	The first and second data releases of the Kilo-Degree Survey. Astronomy and Astrophysics, 2015, 582, A62.	5.1	218
6	KiDS-450 + 2dFLenS: Cosmological parameter constraints from weak gravitational lensing tomography and overlapping redshift-space galaxy clustering. Monthly Notices of the Royal Astronomical Society, 2018, 474, 4894-4924.	4.4	212
7	CFHTLenS revisited: assessing concordance with Planck including astrophysical systematics. Monthly Notices of the Royal Astronomical Society, 2017, 465, 2033-2052.	4.4	185
8	KiDS+GAMA: cosmology constraints from a joint analysis of cosmic shear, galaxy–galaxy lensing, and angular clustering. Monthly Notices of the Royal Astronomical Society, 2018, 476, 4662-4689.	4.4	163
9	CFHTLenS: testing the laws of gravity with tomographic weak lensing and redshift-space distortions. Monthly Notices of the Royal Astronomical Society, 2013, 429, 2249-2263.	4.4	149
10	The BAHAMAS project: the CMB–large-scale structure tension and the roles of massive neutrinos and galaxy formation. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2999-3030.	4.4	113
11	CFHTLenS tomographic weak lensing: quantifying accurate redshift distributions. Monthly Notices of the Royal Astronomical Society, 2013, 431, 1547-1564.	4.4	111
12	Baryons, neutrinos, feedback and weak gravitational lensing. Monthly Notices of the Royal Astronomical Society, 2015, 450, 1212-1223.	4.4	94
13	Precision calculations of the cosmic shear power spectrum projection. Monthly Notices of the Royal Astronomical Society, 2017, 472, 2126-2141.	4.4	87
14	KiDS-450: cosmological constraints from weak-lensing peak statistics – II: Inference from shear peaks using N-body simulations. Monthly Notices of the Royal Astronomical Society, 2018, 474, 712-730.	4.4	86
15	KiDS-450: cosmological constraints from weak lensing peak statistics – I. Inference from analytical prediction of high signal-to-noise ratio convergence peaks. Monthly Notices of the Royal Astronomical Society, 2018, 474, 1116-1134.	4.4	79
16	First measurement of the cross-correlation of CMB lensing and galaxy lensing. Physical Review D, 2015, 91, .	4.7	60
17	RCSLenS: testing gravitational physics through the cross-correlation of weak lensing and large-scale structure. Monthly Notices of the Royal Astronomical Society, 2016, 456, 2806-2828.	4.4	58
18	Simulations of weak gravitational lensing – II. Including finite support effects in cosmic shear covariance matrices. Monthly Notices of the Royal Astronomical Society, 2015, 450, 2857-2873.	4.4	56

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19	Gravitational lensing simulations - I. Covariance matrices and halo catalogues. Monthly Notices of the Royal Astronomical Society, 2012, 426, 1262-1279.	4.4	53
20	The 2-degree Field Lensing Survey: design and clustering measurements. Monthly Notices of the Royal Astronomical Society, 2016, 462, 4240-4265.	4.4	53
21	Cross-correlating Planck tSZ with RCSLenS weak lensing: implications for cosmology and AGN feedback. Monthly Notices of the Royal Astronomical Society, 2017, 471, 1565-1580.	4.4	53
22	Painting with baryons: augmenting N-body simulations with gas using deep generative models. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 487, L24-L29.	3.3	49
23	Cosmological neutrino simulations at extreme scale. Research in Astronomy and Astrophysics, 2017, 17, 085.	1.7	46
24	Studying galaxy troughs and ridges using weak gravitational lensing with the Kilo-Degree Survey. Monthly Notices of the Royal Astronomical Society, 2018, 481, 5189-5209.	4.4	45
25	Cosmic shear cosmology beyond two-point statistics: a combined peak count and correlation function analysis of DES-Y1. Monthly Notices of the Royal Astronomical Society, 2021, 506, 1623-1650.	4.4	45
26	Precision reconstruction of the cold dark matter-neutrino relative velocity from N-body simulations. Physical Review D, 2015, 92, .	4.7	43
27	Cosmic shear covariance matrix in wCDM: Cosmology matters. Astronomy and Astrophysics, 2019, 631, A160.	5.1	41
28	2dFLenS and KiDS: determining source redshift distributions with cross-correlations. Monthly Notices of the Royal Astronomical Society, 2017, 465, 4118-4132.	4.4	35
29	CFHTLenS and RCSLenS cross-correlation with Planck lensing detected in fourier and configuration space. Monthly Notices of the Royal Astronomical Society, 2016, 460, 434-457.	4.4	33
30	The skewed weak lensing likelihood: why biases arise, despite data and theory being sound. Monthly Notices of the Royal Astronomical Society, 2018, 477, 4879-4895.	4.4	33
31	Revisiting CFHTLenS cosmic shear: optimal E/B mode decomposition using COSEBIs and compressed COSEBIs. Monthly Notices of the Royal Astronomical Society, 2017, 464, 1676-1692.	4.4	32
32	Dissecting the thermal Sunyaev-Zeldovich-gravitational lensing cross-correlation with hydrodynamical simulations. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 047-047.	5.4	31
33	Consistent cosmic shear in the face of systematics: a B-mode analysis of KiDS-450, DES-SV and CFHTLenS. Astronomy and Astrophysics, 2019, 624, A134.	5.1	30
34	KiDS-450: tomographic cross-correlation of galaxy shear with Planck lensing. Monthly Notices of the Royal Astronomical Society, 2017, 471, 1619-1633.	4.4	27
35	Probing dark energy with tomographic weak-lensing aperture mass statistics. Astronomy and Astrophysics, 2021, 646, A62.	5.1	27
36	Persistent homology in cosmic shear: Constraining parameters with topological data analysis. Astronomy and Astrophysics, 2021, 648, A74.	5.1	27

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37	Strong detection of the CMB lensing and galaxy weak lensing cross-correlation from ACT-DR4,<i>Planck</i>Legacy, and KiDS-1000. Astronomy and Astrophysics, 2021, 649, A146.	5.1	26
38	Differential neutrino condensation onto cosmic structure. Nature Astronomy, 2017, 1, .	10.1	25
39	INCREASING THE FISHER INFORMATION CONTENT IN THE MATTER POWER SPECTRUM BY NONLINEAR WAVELET WIENER FILTERING. Astrophysical Journal, 2011, 728, 35.	4.5	23
40	KiDS-450: enhancing cosmic shear with clipping transformations. Monthly Notices of the Royal Astronomical Society, 2018, 480, 5529-5549.	4.4	21
41	Non-Gaussian error bars in galaxy surveys - I. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2288-2307.	4.4	20
42	Cross-correlation of weak lensing and gamma rays: implications for the nature of dark matter. Monthly Notices of the Royal Astronomical Society, 2017, 467, 2706-2722.	4.4	19
43	Non-Gaussianity in the weak lensing correlation function likelihood â€" implications for cosmological parameter biases. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2977-2993.	4.4	19
44	On the road toÂperâ€°cent accuracy â€" III. Non-linear reaction of the matter power spectrum to massive neutrinos. Monthly Notices of the Royal Astronomical Society, 2020, 491, 3101-3107.	4.4	18
45	Constraining cosmology with weak lensing voids. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	17
46	Cosmic shear beyond 2-point statistics: Accounting for galaxy intrinsic alignment with projected tidal fields. Monthly Notices of the Royal Astronomical Society, 2021, 509, 3868-3888.	4.4	15
47	AMICO galaxy clusters in KiDS-DR3. Astronomy and Astrophysics, 2021, 653, A19.	5.1	12
48	A gravitational lensing detection of filamentary structures connecting luminous red galaxies. Astronomy and Astrophysics, 2020, 633, A89.	5.1	11
49	Impact of baryons in cosmic shear analyses with tomographic aperture mass statistics. Astronomy and Astrophysics, 2021, 648, A115.	5.1	11
50	An adapted filter function for density split statistics in weak lensing. Astronomy and Astrophysics, 2020, 642, A161.	5.1	11
51	Dark matter distribution induced by a cosmic string wake in the nonlinear regime. Physical Review D, 2018, 98, .	4.7	9
52	Non-Gaussian error bars in galaxy surveys â€" II. Monthly Notices of the Royal Astronomical Society, 2013, 431, 3349-3363.	4.4	8
53	Enhancing the cosmic shear power spectrum. Monthly Notices of the Royal Astronomical Society, 2016, 456, 278-285.	4.4	8
54	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

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55	Cosmological forecasts with the clustering of weak lensing peaks. Monthly Notices of the Royal Astronomical Society, 2022, 513, 4729-4746.	4.4	6
56	On cosmological bias due to the magnification of shear and position samples in modern weak lensing analyses. Monthly Notices of the Royal Astronomical Society, 2022, 515, 1130-1145.	4.4	5
57	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