

Jochen Weller

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

4,755
citations

126708

33
h-index

128067

60
g-index

65
all docs

65
docs citations

65
times ranked

4992
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmology and Fundamental Physics with the Euclid Satellite. Living Reviews in Relativity, 2013, 16, 6.	8.2	683
2	Cosmology and fundamental physics with the Euclid satellite. Living Reviews in Relativity, 2018, 21, 2.	8.2	602
3	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. I. Discovery of the Optical Counterpart Using the Dark Energy Camera. Astrophysical Journal Letters, 2017, 848, L16.	3.0	392
4	Future supernovae observations as a probe of dark energy. Physical Review D, 2002, 65, .	1.6	268
5	Statistics of Physical Properties of Dark Matter Clusters. Astrophysical Journal, 2006, 646, 815-833.	1.6	178
6	Opportunities for Future Supernova Studies of Cosmic Acceleration. Physical Review Letters, 2001, 86, 1939-1942.	2.9	156
7	Dark Energy Survey Year 1 Results: redshift distributions of the weak-lensing source galaxies. Monthly Notices of the Royal Astronomical Society, 2018, 478, 592-610.	1.6	145
8	Constraints on Cosmology and Gravity from the Dynamics of Voids. Physical Review Letters, 2016, 117, 091302.	2.9	121
9	The Dark Energy Survey Data Release 2. Astrophysical Journal, Supplement Series, 2021, 255, 20.	3.0	120
10	Neutral hydrogen surveys for high-redshift galaxy clusters and protoclusters. Monthly Notices of the Royal Astronomical Society, 2004, 355, 1339-1347.	1.6	106
11	Constraining cosmological parameters using Sunyaev-Zelâ€™dovich cluster surveys. Physical Review D, 2003, 68, .	1.6	102
12	Improved primordial non-Gaussianity constraints from measurements of galaxy clustering and the integrated Sachs-Wolfe effect. Physical Review D, 2014, 89, .	1.6	101
13	The SPTpol Extended Cluster Survey. Astrophysical Journal, Supplement Series, 2020, 247, 25.	3.0	101
14	Constraining Inverse-Curvature Gravity with Supernovae. Physical Review Letters, 2006, 96, 041103.	2.9	99
15	Anomalous Flux Ratios in Gravitational Lenses: For or against Cold Dark Matter?. Astrophysical Journal, 2004, 604, L5-L8.	1.6	88
16	Constraining Dark Energy with Sunyaev-Zelâ€™dovich Cluster Surveys. Physical Review Letters, 2002, 88, 231301.	2.9	87
17	Cosmic concordance and the fine structure constant. Physical Review D, 2001, 63, .	1.6	79
18	LiteBIRD satellite: JAXA's new strategic L-class mission for all-sky surveys of cosmic microwave background polarization. , 2020, , .		79

#	ARTICLE	IF	CITATIONS
37	Constraining warm dark matter with cosmic shear power spectra. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 022-022.	1.9	30
38	Imprint of Λ CDM on the Ly α forest. Physical Review D, 2016, 93, .	1.6	27
39	Dark energy survey year 1 results: Constraining baryonic physics in the Universe. Monthly Notices of the Royal Astronomical Society, 2021, 502, 6010-6031.	1.6	27
40	The Bound Mass of Substructures in Dark Matter Halos. Astrophysical Journal, 2007, 659, 1082-1095.	1.6	26
41	Joint halo-mass function for modified gravity and massive neutrinos I. Simulations and cosmological forecasts. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3927-3941.	1.6	24
42	Cross-correlation of galaxies and galaxy clusters in the Sloan Digital Sky Survey and the importance of non-Poissonian shot noise. Monthly Notices of the Royal Astronomical Society, 2017, 470, 2566-2577.	1.6	23
43	Modified gravity: the CMB, weak lensing and general parameterisations. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 036-036.	1.9	20
44	Parameterizing scalar-tensor theories for cosmological probes. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 006-006.	1.9	19
45	Stacking for machine learning redshifts applied to SDSS galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3152-3162.	1.6	17
46	DES Y1 results: Splitting growth and geometry to test Λ CDM. Physical Review D, 2021, 103, .	1.6	16
47	Cluster probes of dark energy clustering. Physical Review D, 2013, 88, .	1.6	14
48	On model selection in cosmology. SciPost Physics Lecture Notes, 0, , .	0.0	14
49	Inhomogeneous Reionization and the Polarization of the Cosmic Microwave Background. Astrophysical Journal, 1999, 527, L1-L4.	1.6	13
50	Physical parameter space of bimetric theory and SN1a constraints. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 024-024.	1.9	12
51	Reionization by active sources and its effects on the cosmic microwave background. Physical Review D, 1999, 60, .	1.6	8
52	Reducing Ground-based Astrometric Errors with Gaia and Gaussian Processes. Astronomical Journal, 2021, 162, 106.	1.9	8
53	A DECam Search for Explosive Optical Transients Associated with IceCube Neutrino Alerts. Astrophysical Journal, 2019, 883, 125.	1.6	8
54	A DESGW Search for the Electromagnetic Counterpart to the LIGO/Virgo Gravitational-wave Binary Neutron Star Merger Candidate S190510g. Astrophysical Journal, 2020, 903, 75.	1.6	8

#	ARTICLE	IF	CITATIONS
55	Combining cosmological and local bounds on bimetric theory. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 035.	1.9	7
56	Updated bounds on axion-like particles from X-ray observations. Monthly Notices of the Royal Astronomical Society, 2022, 514, 329-341.	1.6	7
57	Optimizing the yield of Sunyaev-Zel'dovich cluster surveys. Monthly Notices of the Royal Astronomical Society, 2005, 362, 171-183.	1.6	6
58	Modified Gravity and the Flux-weighted Gravity-Luminosity Relationship of Blue Supergiant Stars. Astrophysical Journal, 2021, 914, 94.	1.6	5
59	Lattice simulations of Abelian gauge fields coupled to axions during inflation. Physical Review D, 2022, 105, .	1.6	5
60	Complementarity of future dark energy probes. Monthly Notices of the Royal Astronomical Society, 2011, 416, 2212-2232.	1.6	3
61	Tuning target selection algorithms to improve galaxy redshift estimates. Monthly Notices of the Royal Astronomical Society, 2016, 458, 4498-4511.	1.6	3
62	Overview of the medium and high frequency telescopes of the LiteBIRD space mission. , 2020, , .		3
63	BUBBLES FROM DARK ENERGY ?. , 2000, , .		1
64	The Dark Universe - A mystery of 21 st century physics. Annalen Der Physik, 2014, 526, A61.	0.9	0