Markus Michael Rau

List of Publications by Year
in descending order

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33	1,067	471371	434063
papers	citations	17 h-index	31 g-index

33	33	33	1744
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lensing without borders â€“ I. A blind comparison of the amplitude of galaxyâ€“galaxy lensing between independent imaging surveys. Monthly Notices of the Royal Astronomical Society, 2022, 510, 6150-6189.	1.6	12
2	The dynamical mass of the Coma cluster from deep learning. Nature Astronomy, 2022, 6, 936-941.	4.2	9
3	Dark energy survey internal consistency tests of the joint cosmological probes analysis with posterior predictive distributions. Monthly Notices of the Royal Astronomical Society, 2021, 503, 2688-2705.	1.6	20
4	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
5	Approximate Bayesian Uncertainties on Deep Learning Dynamical Mass Estimates of Galaxy Clusters. Astrophysical Journal, 2021, 908, 204.	1.6	13
6	Dark Energy Survey Year 1 Results: Cosmological Constraints from Cluster Abundances, Weak Lensing, and Galaxy Correlations. Physical Review Letters, 2021, 126, 141301.	2.9	55
7	Assessing tension metrics with dark energy survey and Planck data. Monthly Notices of the Royal Astronomical Society, 2021, 505, 6179-6194.	1.6	37
8	Galaxyâ€“galaxy lensing with the DES-CMASS catalogue: measurement and constraints on the galaxy-matter cross-correlation. Monthly Notices of the Royal Astronomical Society, 2021, 509, 2033-2047.	1.6	6
9	Probing gravity with the DES-CMASS sample and BOSS spectroscopy. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4982-4996.	1.6	9
10	Probabilistic model for dynamic galaxy decomposition. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1764-1778.	1.6	4
11	The impact of spectroscopic incompleteness in direct calibration of redshift distributions for weak lensing surveys. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4769-4786.	1.6	20
12	Estimating redshift distributions using hierarchical logistic Gaussian processes. Monthly Notices of the Royal Astronomical Society, 2020, 491, 4768-4782.	1.6	9
13	Is diffuse intracluster light a good tracer of the galaxy cluster matter distribution?. Monthly Notices of the Royal Astronomical Society, 2020, 501, 1300-1315.	1.6	24
14	Dark Energy Survey year 1 results: the relationship between mass and light around cosmic voids. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3573-3587.	1.6	32
15	Self-consistent redshift estimation using correlation functions without a spectroscopic reference sample. Monthly Notices of the Royal Astronomical Society, 2019, 485, 3642-3660.	1.6	5
16	Cosmological lensing ratios with DES Y1, SPT, and Planck. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1363-1379.	1.6	16
17	The imprint of X-ray photoevaporation of planet-forming discs on the orbital distribution of giant planets. Monthly Notices of the Royal Astronomical Society, 2019, 483, 3448-3458.	1.6	21
18	Calibrating long-period variables as standard candles with machine learning. Monthly Notices of the Royal Astronomical Society, 2019, 484, 409-421.	1.6	6

#	Article	IF	Citations
19	A Robust and Efficient Deep Learning Method for Dynamical Mass Measurements of Galaxy Clusters. Astrophysical Journal, 2019, 887, 25.	1.6	50
20	Dark Energy Survey Year 1 Results: The Photometric Data Set for Cosmology. Astrophysical Journal, Supplement Series, 2018, 235, 33.	3.0	192
21	Dark Energy Survey Year 1 results: curved-sky weak lensing mass map. Monthly Notices of the Royal Astronomical Society, 2018, 475, 3165-3190.	1.6	60
22	Dark Energy Survey Year 1 Results: calibration of redMaGiC redshift distributions in DES and SDSS from cross-correlations. Monthly Notices of the Royal Astronomical Society, 2018, 481, 2427-2443.	1.6	39
23	Dark Energy Survey Year 1 results: cross-correlation redshifts â€“ methods and systematics characterization. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1664-1682.	1.6	63
24	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
25	The Reionization Parameter Space Consistent with the Thomson Optical Depth from Planck. Research Notes of the AAS, 2018, 2, 135.	0.3	6
26	Correcting cosmological parameter biases for all redshift surveys induced by estimating and reweighting redshift distributions. Monthly Notices of the Royal Astronomical Society, 2017, 466, 2927-2938.	1.6	7
27	Learning Through Utility Optimization in Regression Tasks. , 2017, , .		3
28	Stacking for machine learning redshifts applied to SDSS galaxies. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3152-3162.	1.6	17
29	Data augmentation for machine learning redshifts applied to Sloan Digital Sky Survey galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 450, 305-316.	1.6	31
30	Accurate photometric redshift probability density estimation â€“ method comparison and application. Monthly Notices of the Royal Astronomical Society, 2015, 452, 3710-3725.	1.6	45
31	Feature importance for machine learning redshifts applied to SDSS galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 449, 1275-1283.	1.6	38
32	Anomaly detection for machine learning redshifts applied to SDSS galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 452, 4183-4194.	1.6	40
33	A Composite Likelihood Approach for Inference under Photometric Redshift Uncertainty. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	6