Valerio Marra

List of Publications by Year
in descending order

75 papers	4,691 citations	159358 30 h-index	98622 67 g-index
79 all docs	79 docs citations	79 times ranked	3623 citing authors

#	Article	IF	Citations
1	Measuring the Hubble constant with black sirens. Physical Review D, 2022, 105, .	1.6	20
2	Type Ia supernova magnitude step from the local dark matter environment. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4779-4795.	1.6	3
3	Baryon acoustic oscillations in thin redshift shells from BOSS DR12 and eBOSS DR16 galaxies. Monthly Notices of the Royal Astronomical Society, 2022, 513, 1600-1608.	1.6	4
4	Late-transition versus smooth <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>H</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>z</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math> -deformation models for the resolution of the Hubble crisis. Physical Review D, 2022, 105, .	1.6	35
5	Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. Journal of High Energy Astrophysics, 2022, 34, 49-211.	2.4	350
6	Revisiting constraints on asymmetric dark matter from collapse in white dwarf stars. Physical Review D, 2022, 105, .	1.6	6
7	The miniJPAS survey: star-galaxy classification using machine learning. Astronomy and Astrophysics, 2021, 645, A87.	2.1	26
8	J-PAS: Measuring emission lines with artificial neural networks. Astronomy and Astrophysics, 2021, 647, A158.	2.1	15
9	On the use of the local prior on the absolute magnitude of Type Ia supernovae in cosmological inference. Monthly Notices of the Royal Astronomical Society, 2021, 504, 5164-5171.	1.6	114
10	The miniJPAS survey. Astronomy and Astrophysics, 2021, 649, A79.	2.1	22
11	J-PAS: forecasts for dark matter-dark energy elastic couplings. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 022.	1.9	12
12	Rapid transition of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>G</mml:mi><mml:mi>eff</mml:mi></mml:msub></mml:math> at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>z</mml:mi><mml:mi>t</mml:mi></mml:msub><mml:mo>â‰ƒ</mml:mo><mml:mn>0.01</mml:mn> as a possible solution of the Hubble and growth tensions. Physical Review D, 2021, 104, .	1.6	63
13	Model-independent reconstruction of dark sector interactions. Physical Review D, 2021, 104, .	1.6	16
14	Comparing COVID-19 risk factors in Brazil using machine learning: the importance of socioeconomic, demographic and structural factors. Scientific Reports, 2021, 11, 15591.	1.6	23
15	Snowmass2021 - Letter of interest cosmology intertwined I: Perspectives for the next decade. Astroparticle Physics, 2021, 131, 102606.	1.9	37
16	J-PAS: forecasts on interacting vacuum energy models. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 033.	1.9	11
17	The miniJPAS survey: A preview of the Universe in 56 colors. Astronomy and Astrophysics, 2021, 653, A31.	2.1	54
18	Snowmass2021 - Letter of interest cosmology intertwined II: The hubble constant tension. Astroparticle Physics, 2021, 131, 102605.	1.9	228

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19	Snowmass2021 - Letter of interest cosmology intertwined IV: The age of the universe and its curvature. Astroparticle Physics, 2021, 131, 102607.	1.9	39
20	Cosmology intertwined III: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg"><mml:mrow><mml:mi>f</mml:mi><mml:msub><mml:mi>Ïƒ</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:mro and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg"><mml:msub><mml:mi>S</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:math>. Astroparticle Physics, 2021, 131, 102604.	1.9	182
21	A Bayesian estimate of the early COVID-19 infection fatality ratio in Brazil based on a random seroprevalence survey. International Journal of Infectious Diseases, 2021, 111, 190-195.	1.5	12
22	The Copernican principle in light of the latest cosmologicalÂdata. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1291-1302.	1.6	17
23	On the impact of baryons on the halo mass function, bias, and cluster cosmology. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2316-2335.	1.6	42
24	A fundamental test for MOND. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2875-2885.	1.6	16
25	A new method to build the (inverse) distance ladder. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2630-2644.	1.6	50
26	Ethnic and regional variations in hospital mortality from COVID-19 in Brazil: a cross-sectional observational study. The Lancet Global Health, 2020, 8, e1018-e1026.	2.9	435
27	Dark degeneracy I: Dynamical or interacting dark energy?. Physics of the Dark Universe, 2020, 28, 100490.	1.8	24
28	Reply to: Overconfidence in Bayesian analyses of galaxy rotation curves. Nature Astronomy, 2020, 4, 134-135.	4.2	9
29	Local determination of the Hubble constant and the deceleration parameter. Physical Review Research, 2020, 2, .	1.3	132
30	Observing the Dark Sector. Universe, 2019, 5, 137.	0.9	6
31	A first model-independent radial BAO constraint from the final BOSS sample. Monthly Notices of the Royal Astronomical Society, 2019, 487, 3419-3426.	1.6	9
32	Null test for interactions in the dark sector. Physical Review D, 2019, 99, .	1.6	31
33	The radial acceleration relation and its emergent nature. Proceedings of the International Astronomical Union, 2019, 15, 457-459.	0.0	0
34	Cosmology and fundamental physics with the Euclid satellite. Living Reviews in Relativity, 2018, 21, 2.	8.2	602
35	Null tests of the standard model using the linear model formalism. Physical Review D, 2018, 97, .	1.6	27
36	Reply to â€˜Presence of a fundamental acceleration scale in galaxiesâ€™ and â€˜A common Milgromian acceleration scale in natureâ€™. Nature Astronomy, 2018, 2, 927-929.	4.2	19

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37	Impact of the cosmic variance on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> on cosmological analyses. Physical Review D, 2018, 98, .	1.6	58
38	Absence of a fundamental acceleration scale in galaxies. Nature Astronomy, 2018, 2, 668-672.	4.2	74
39	Evidence against cuspy dark matter haloes in large galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 470, 2410-2426.	1.6	26
40	Clustering dark energy and halo abundances. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 048-048.	1.9	19
41	Constraining the halo mass function with observations. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1666-1677.	1.6	21
42	Cosmological constraints on the radiation released during structure formation. European Physical Journal C, 2016, 76, 1.	1.4	4
43	Coupling dark energy to dark matter inhomogeneities. Physics of the Dark Universe, 2016, 13, 25-29.	1.8	13
44	Perturbed Newtonian description of the LemaÃ®tre model with non-negligible pressure. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 030-030.	1.9	3
45	The evolving perception of controversial movies. Palgrave Communications, 2015, 1, .	4.7	8
46	Constraining the growth of perturbations with lensing of supernovae. Monthly Notices of the Royal Astronomical Society, 2015, 449, 2845-2852.	1.6	10
47	Testing the Copernican principle by constraining spatial homogeneity. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 438, L6-L10.	1.2	59
48	Linear perturbation constraints on multi-coupled dark energy. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 045-045.	1.9	16
49	Extensive search for systematic bias in supernova Ia data. Monthly Notices of the Royal Astronomical Society, 2014, 439, 1855-1864.	1.6	20
50	Accurate weak lensing of standard candles. II. Measuring <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ïƒ</mml:mi></mml:mrow><mml:mrow><mml:mn>8</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> supernovae. Physical Review D, 2014, 89, .	1.6	28
51	Searching for bias and correlations in a Bayesian way - Example: SN Ia data. Proceedings of the International Astronomical Union, 2014, 10, 19-21.	0.0	1
52	Intrinsic uncertainty on the nature of dark energy. Physics of the Dark Universe, 2013, 2, 219-223.	1.8	18
53	Cosmic Variance and the Measurement of the Local Hubble Parameter. Physical Review Letters, 2013, 110, 241305.	2.9	128
54	Supernova constraints on multi-coupled dark energy. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 042-042.	1.9	13

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55	Cosmology and Fundamental Physics with the Euclid Satellite. Living Reviews in Relativity, 2013, 16, 6.	8.2	683
56	Uncertainty on w from large-scale structure. Monthly Notices of the Royal Astronomical Society, 2013, 431, 1891-1902.	1.6	21
57	Internal robustness: systematic search for systematic bias in SNÂIa data. Monthly Notices of the Royal Astronomical Society, 2013, 430, 1867-1879.	1.6	28
58	Seeding supermassive black holes with a nonvortical dark-matter subcomponent. Physical Review D, 2013, 88, .	1.6	13
59	Accurate weak lensing of standard candles. I. Flexible cosmological fits. Physical Review D, 2013, 88, .	1.6	32
60	Exact spherically-symmetric inhomogeneous model withnperfect fluids. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 025-025.	1.9	27
61	Observational constraints on inhomogeneous cosmological models without dark energy. Classical and Quantum Gravity, 2011, 28, 164004.	1.5	94
62	Accurate modeling of weak lensing with the stochastic gravitational lensing method. Physical Review D, 2011, 83, .	1.6	40
63	Weak lensing observables in the halo model. Physical Review D, 2011, 84, .	1.6	21
64	Cosmological background solutions and cosmological backreactions. General Relativity and Gravitation, 2010, 42, 1399-1412.	0.7	56
65	Large-Scale Inhomogeneities May Improve the Cosmic Concordance of Supernovae. Physical Review Letters, 2010, 105, 121302.	2.9	38
66	Impact of cosmic inhomogeneities on SNe observations. , 2010, , .		2
67	Observational constraints on the Î›LTB model. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 021-021.	1.9	44
68	New stochastic approach to cumulative weak lensing. Physical Review D, 2009, 80, .	1.6	46
69	Supernovae observations in a â€œmeatballâ€•universe with a local void. Physical Review D, 2009, 80, .	1.6	25
70	Light-cone averages in a Swiss-cheese universe. Physical Review D, 2008, 77, .	1.6	88
71	Description of our cosmological spacetime as a perturbed conformal Newtonian metric and implications for the backreaction proposal for the accelerating universe. Physical Review D, 2008, 78, .	1.6	32
72	Cosmological observables in a Swiss-cheese universe. Physical Review D, 2007, 76, .	1.6	139

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73	Cosmological evolution of alpha driven by a general coupling with quintessence. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 011-011.	1.9	31
74	Cosmological constrains on minimally and non-minimally coupled scalar field models. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	7
75	A fast and reliable method for the comparison of covariance matrices. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	0