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	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	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
4	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
5	Snowmass2021 - Letter of interest cosmology intertwined II: The hubble constant tension. Astroparticle Physics, 2021, 131, 102605.	1.9	228
6	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
7	Cosmological observables in a Swiss-cheese universe. Physical Review D, 2007, 76, .	1.6	139
8	Local determination of the Hubble constant and the deceleration parameter. Physical Review Research, 2020, 2, .	1.3	132
9	Cosmic Variance and the Measurement of the Local Hubble Parameter. Physical Review Letters, 2013, 110, 241305.	2.9	128
10	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
11	Observational constraints on inhomogeneous cosmological models without dark energy. Classical and Quantum Gravity, 2011, 28, 164004.	1.5	94
12	Light-cone averages in a Swiss-cheese universe. Physical Review D, 2008, 77, .	1.6	88
13	Absence of a fundamental acceleration scale in galaxies. Nature Astronomy, 2018, 2, 668-672.	4.2	74
14	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</mm as a possible solution of the Hubble and growth tensions. Physical Review D, 2021, 104, .	1.6	63
15	Testing the Copernican principle by constraining spatial homogeneity. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 438, L6-L10.	1.2	59
16	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></mm on cosmological analyses. Physical Review D, 2018, 98, .	1.6	58
17	Cosmological background solutions and cosmological backreactions. General Relativity and Gravitation, 2010, 42, 1399-1412.	0.7	56
18	The miniJPAS survey: A preview of the Universe in 56 colors. Astronomy and Astrophysics, 2021, 653, A31.	2.1	54

#	ARTICLE	IF	CITATIONS
19	A new method to build the (inverse) distance ladder. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2630-2644.	1.6	50
20	New stochastic approach to cumulative weak lensing. Physical Review D, 2009, 80, .	1.6	46
21	Observational constraints on the Î›LTB model. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 021-021.	1.9	44
22	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
23	Accurate modeling of weak lensing with the stochastic gravitational lensing method. Physical Review D, 2011, 83, .	1.6	40
24	Snowmass2021 - Letter of interest cosmology intertwined IV: The age of the universe and its curvature. Astroparticle Physics, 2021, 131, 102607.	1.9	39
25	Large-Scale Inhomogeneities May Improve the Cosmic Concordance of Supernovae. Physical Review Letters, 2010, 105, 121302.	2.9	38
26	Snowmass2021 - Letter of interest cosmology intertwined I: Perspectives for the next decade. Astroparticle Physics, 2021, 131, 102606.	1.9	37
27	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
28	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
29	Accurate weak lensing of standard candles. I. Flexible cosmological fits. Physical Review D, 2013, 88, .	1.6	32
30	Cosmological evolution of alpha driven by a general coupling with quintessence. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 011-011.	1.9	31
31	Null test for interactions in the dark sector. Physical Review D, 2019, 99, .	1.6	31
32	Internal robustness: systematic search for systematic bias in SNÂIa data. Monthly Notices of the Royal Astronomical Society, 2013, 430, 1867-1879.	1.6	28
33	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></m supernovae. Physical Review D, 2014, 89, .	1.6	28
34	Exact spherically-symmetric inhomogeneous model with<i>n</i>perfect fluids. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 025-025.	1.9	27
35	Null tests of the standard model using the linear model formalism. Physical Review D, 2018, 97, .	1.6	27
36	Evidence against cuspy dark matter haloes in large galaxies. Monthly Notices of the Royal Astronomical Society, 2017, 470, 2410-2426.	1.6	26

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37	The miniJPAS survey: star-galaxy classification using machine learning. Astronomy and Astrophysics, 2021, 645, A87.	2.1	26
38	Supernovae observations in a â€œmeatballâ€•universe with a local void. Physical Review D, 2009, 80, .	1.6	25
39	Dark degeneracy I: Dynamical or interacting dark energy?. Physics of the Dark Universe, 2020, 28, 100490.	1.8	24
40	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
41	The miniJPAS survey. Astronomy and Astrophysics, 2021, 649, A79.	2.1	22
42	Weak lensing observables in the halo model. Physical Review D, 2011, 84, .	1.6	21
43	Uncertainty on w from large-scale structure. Monthly Notices of the Royal Astronomical Society, 2013, 431, 1891-1902.	1.6	21
44	Constraining the halo mass function with observations. Monthly Notices of the Royal Astronomical Society, 2016, 463, 1666-1677.	1.6	21
45	Extensive search for systematic bias in supernova Ia data. Monthly Notices of the Royal Astronomical Society, 2014, 439, 1855-1864.	1.6	20
46	Measuring the Hubble constant with black sirens. Physical Review D, 2022, 105, .	1.6	20
47	Clustering dark energy and halo abundances. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 048-048.	1.9	19
48	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
49	Intrinsic uncertainty on the nature of dark energy. Physics of the Dark Universe, 2013, 2, 219-223.	1.8	18
50	The Copernican principle in light of the latest cosmologicalÂdata. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1291-1302.	1.6	17
51	Linear perturbation constraints on multi-coupled dark energy. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 045-045.	1.9	16
52	A fundamental test for MOND. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2875-2885.	1.6	16
53	Model-independent reconstruction of dark sector interactions. Physical Review D, 2021, 104, .	1.6	16
54	J-PAS: Measuring emission lines with artificial neural networks. Astronomy and Astrophysics, 2021, 647, A158.	2.1	15

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55	Supernova constraints on multi-coupled dark energy. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 042-042.	1.9	13
56	Seeding supermassive black holes with a nonvortical dark-matter subcomponent. Physical Review D, 2013, 88, .	1.6	13
57	Coupling dark energy to dark matter inhomogeneities. Physics of the Dark Universe, 2016, 13, 25-29.	1.8	13
58	J-PAS: forecasts for dark matter-dark energy elastic couplings. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 022.	1.9	12
59	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
60	J-PAS: forecasts on interacting vacuum energy models. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 033.	1.9	11
61	Constraining the growth of perturbations with lensing of supernovae. Monthly Notices of the Royal Astronomical Society, 2015, 449, 2845-2852.	1.6	10
62	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
63	Reply to: Overconfidence in Bayesian analyses of galaxy rotation curves. Nature Astronomy, 2020, 4, 134-135.	4.2	9
64	The evolving perception of controversial movies. Palgrave Communications, 2015, 1, .	4.7	8
65	Cosmological constrains on minimally and non-minimally coupled scalar field models. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	7
66	Observing the Dark Sector. Universe, 2019, 5, 137.	0.9	6
67	Revisiting constraints on asymmetric dark matter from collapse in white dwarf stars. Physical Review D, 2022, 105, .	1.6	6
68	Cosmological constraints on the radiation released during structure formation. European Physical Journal C, 2016, 76, 1.	1.4	4
69	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
70	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
71	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
72	Impact of cosmic inhomogeneities on SNe observations. , 2010, , .		2

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73	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
74	The radial acceleration relation and its emergent nature. Proceedings of the International Astronomical Union, 2019, 15, 457-459.	0.0	0
75	A fast and reliable method for the comparison of covariance matrices. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	0