Eleonora Di Valentino

List of Publications by Year
in descending order

123 papers	25,886 citations	41344 49 h-index	20358 116 g-index
124 all docs	124 docs citations	124 times ranked	16889 citing authors

#	Article	IF	Citations
1	Modified emergent dark energy and its astronomical constraints. International Journal of Modern Physics D, 2022, 31, .	2.1	6
2	Constraints from high-precision measurements of the cosmic microwave background: the case of disintegrating dark matter with Î› or dynamical dark energy. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 012.	5.4	8
3	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. Astrophysical Journal, 2022, 926, 54.	4.5	79
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, .	4.7	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.	6.7	350
6	Minimal dark energy: Key to sterile neutrino and Hubble constant tensions?. Physical Review D, 2022, 105, .	4.7	11
7	Neutrino Mass Bounds in the Era of Tension Cosmology. Astrophysical Journal Letters, 2022, 931, L18.	8.3	31
8	New tests of dark sector interactions from the full-shape galaxy power spectrum. Physical Review D, 2022, 105, .	4.7	42
9	Investigating Cosmic Discordance. Astrophysical Journal Letters, 2021, 908, L9.	8.3	96
10	Dark Energy with Phantom Crossing and the H0 Tension. Entropy, 2021, 23, 404.	2.2	76
11	New cosmological bounds on hot relics: axions and neutrinos. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2703-2711.	4.4	30
12	Touch of neutrinos on the vacuum metamorphosis: Is the H0 solution back?. Physical Review D, 2021, 103, .	4.7	19
13	STATUS OF THREE NEUTRINO MASS AND MIXING PARAMETERS. , 2021, , .		0
14	Microwave spectro-polarimetry of matter and radiation across space and time. Experimental Astronomy, 2021, 51, 1471-1514.	3.7	15
15	In the realm of the Hubble tensionâ€”a review of solutions [*]. Classical and Quantum Gravity, 2021, 38, 153001.	4.0	816
16	Snowmass2021 - Letter of interest cosmology intertwined I: Perspectives for the next decade. Astroparticle Physics, 2021, 131, 102606.	4.3	37
17	Dark sector interaction and the supernova absolute magnitude tension. Physical Review D, 2021, 104, .	4.7	41
18	The galaxy power spectrum take on spatial curvature and cosmic concordance. Physics of the Dark Universe, 2021, 33, 100851.	4.9	76

#	Article	IF	Citations
19	Snowmass2021 - Letter of interest cosmology intertwined II: The hubble constant tension. Astroparticle Physics, 2021, 131, 102605.	4.3	228
20	Snowmass2021 - Letter of interest cosmology intertwined IV: The age of the universe and its curvature. Astroparticle Physics, 2021, 131, 102607.	4.3	39
21	Generalized emergent dark energy model and the Hubble constant tension. Physical Review D, 2021, 104, .	4.7	23
22	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:mr 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.	4.3	182
23	Most constraining cosmological neutrino mass bounds. Physical Review D, 2021, 104, .	4.7	63
24	Dissecting the H0 and S8 tensions with Planck + BAO + supernova type Ia in multi-parameter cosmologies. Journal of High Energy Astrophysics, 2021, 32, 28-64.	6.7	31
25	Interacting dark energy in a closed universe. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 502, L23-L28.	3.3	37
26	A combined analysis of the H0 late time direct measurements and the impact on the Dark Energy sector. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2065-2073.	4.4	78
27	Emergent Dark Energy, neutrinos and cosmological tensions. Physics of the Dark Universe, 2021, 31, 100762.	4.9	30
28	Dynamical dark energy after Planck CMB final release and H0 tension. Monthly Notices of the Royal Astronomical Society, 2021, 501, 5845-5858.	4.4	46
29	Unfinished fabric of the three neutrino paradigm. Physical Review D, 2021, 104, .	4.7	103
30	2021-H₀ odyssey: closed, phantom and interacting dark energy cosmologies. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 008.	5.4	35
31	Cosmological constraints on slow roll inflation: An update. Physical Review D, 2021, 104, .	4.7	20
32	Planck evidence for a closed Universe and a possible crisis for cosmology. Nature Astronomy, 2020, 4, 196-203.	10.1	363
33	Addendum to â€œGlobal constraints on absolute neutrino masses and their orderingâ€• Physical Review D, 2020, 101, .	4.7	58
34	Reconciling H₀ tension in a six parameter space?. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 062-062.	5.4	46
35	A fake interacting dark energy detection?. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 500, L22-L26.	3.3	23
36	Dynamical dark sectors and neutrino masses and abundances. Physical Review D, 2020, 102, .	4.7	28

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37	Soundness of dark energy properties. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 045-045.	5.4	32
38	Fitting string inflation to real cosmological data: The fiber inflation case. Physical Review D, 2020, 102, .	4.7	18
39	Metastable dark energy models in light of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>P</mml:mi><mml:mi>l</mml:mi><mml:mi>a</mml:mi><mml:mi>n</mml:mi><mml:mi>c</mml:mi><mml:mi> 2018 data: Alleviating the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>H</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:math> tension. Physical Review D, 2020, 102, .	4.7	25
40	All-inclusive interacting dark sector cosmologies. Physical Review D, 2020, 101, .	4.7	43
41	Planck2018 results. Astronomy and Astrophysics, 2020, 641, A6.	5.1	6,722
42	Forecasting interacting vacuum-energy models using gravitational waves. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 050-050.	5.4	23
43	Interacting dark energy in the early 2020s: A promising solution to the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1519" altimg="si57.svg"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow></ and cosmic shear tensions. Physics of the Dark Universe, 2020, 30, 100666.	4.9	184
44	Cosmological constraints in extended parameter space from the Planck 2018 Legacy release. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 013-013.	5.4	83
45	Nonminimal dark sector physics and cosmological tensions. Physical Review D, 2020, 101, .	4.7	211
46	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e10468" altimg="si642.svg"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow></ ex machina: Vacuum metamorphosis and beyond <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e10478" altimg="si642.svg"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mn>0</mml:mn></mml:mrow></ Physics of the Dark Universe, 2020, 30, 100733.	4.9	24
47	Planck2018 results. Astronomy and Astrophysics, 2020, 641, A8.	5.1	400
48	Planck 2018 results. Astronomy and Astrophysics, 2020, 641, A5.	5.1	558
49	Listening to the sound of dark sector interactions with gravitational wave standard sirens. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 037-037.	5.4	77
50	Late time transitions in the quintessence field and the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e6133" altimg="si2.svg"><mml:msub><mml:mrow><mml:mi mathvariant="bold-italic">H</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="bold">0</mml:mi></mml:mrow></mml:msub></mml:math> tension. Physics of the Dark Universe, 2019, 26, 100385.	4.9	53
51	Dark sectors with dynamical coupling. Physical Review D, 2019, 100, .	4.7	54
52	Testing the inflationary slow-roll condition with tensor modes. Physical Review D, 2019, 99, .	4.7	10
53	Dark Energy Survey year 1 results: Constraints on extended cosmological models from galaxy clustering and weak lensing. Physical Review D, 2019, 99, .	4.7	130
54	Testing Predictions of the Quantum Landscape Multiverse 3: The Hilltop Inflationary Potential. Symmetry, 2019, 11, 520.	2.2	4

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55	Observational constraints on one-parameter dynamical dark-energy parametrizations and the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>H</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:math> tension. Physical Review D, 2019, 99, .	4.7	90
56	Observational Constraints on Dynamical Dark Energy with Pivoting Redshift. Universe, 2019, 5, 219.	2.5	17
57	Dawn of the dark: unified dark sectors and the EDGES Cosmic Dawn 21-cm signal. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 044-044.	5.4	36
58	Challenging bulk viscous unified scenarios with cosmological observations. Physical Review D, 2019, 100, .	4.7	34
59	Interacting scenarios with dynamical dark energy: Observational constraints and alleviation of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>H</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:math> tension. Physical Review D, 2019, 100, .	4.7	110
60	First cosmological constraints combining Planck with the recent gravitational-wave standard siren measurement of the Hubble constant. Physical Review D, 2018, 97, .	4.7	19
61	Vacuum phase transition solves the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>H</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:math> tension. Physical Review D, 2018, 97, .	4.7	119
62	Exploring cosmic origins with CORE: Survey requirements and mission design. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 014-014.	5.4	98
63	Exploring cosmic origins with CORE: Inflation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 016-016.	5.4	75
64	Exploring cosmic origins with CORE: Cosmological parameters. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 017-017.	5.4	73
65	Exploring cosmic origins with CORE: Gravitational lensing of the CMB. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 018-018.	5.4	29
66	Exploring cosmic origins with CORE: Effects of observer peculiar motion. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 021-021.	5.4	18
67	Exploring cosmic origins with CORE:B-mode component separation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 023-023.	5.4	44
68	Impact of theoretical assumptions in the determination of the neutrino effective number from future CMB measurements. Physical Review D, 2018, 97, .	4.7	8
69	Exploring the Tension between Current Cosmic Microwave Background and Cosmic Shear Data. Symmetry, 2018, 10, 585.	2.2	45
70	Interacting dark energy with time varying equation of state and the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>H</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:math> tension. Physical Review D, 2018, 98, .	4.7	101
71	Planck intermediate results. Astronomy and Astrophysics, 2018, 619, A94.	5.1	18
72	Planck intermediate results. Astronomy and Astrophysics, 2018, 617, A48.	5.1	22

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73	Cosmological impact of future constraints 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> from gravitational-wave standard sirens. Physical Review D, 2018, 98, .	4.7	26
74	Bayesian evidence against the Harrison-Zelâ€™dovich spectrum in tensions with cosmological data sets. Physical Review D, 2018, 98, .	4.7	29
75	Tale of stable interacting dark energy, observational signatures, and the H₀ tension. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 019-019.	5.4	237
76	Cornering the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>P</mml:mi><mml:mi>l</mml:mi><mml:mi>a</mml:mi><mml:mi>n</mml:mi><mml:mi>c</mml:mi><mml:mi><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>A</mml:mi><mml:mrow><mml:mi>lens</mml:mi></mml:mrow></mml:msub></mml:math>	4.7	20
77	and <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> tensions with dark matter-neutrino interactions. Physical Review D, 2018, 97, .	4.7	133
78	The impact of primordial magnetic fields on future CMB bounds on inflationary gravitational waves. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 038-038.	5.4	11
79	Testing predictions of the quantum landscape multiverse 1: the Starobinsky inflationary potential. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 002-002.	5.4	17
80	Planck intermediate results. Astronomy and Astrophysics, 2017, 599, A51.	5.1	46
81	Testing predictions of the quantum landscape multiverse 2: the exponential inflationary potential. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 020-020.	5.4	24
82	Crack in the cosmological paradigm. Nature Astronomy, 2017, 1, 569-570.	10.1	46
83	Constraining dark energy dynamics in extended parameter space. Physical Review D, 2017, 96, .	4.7	149
84	Global constraints on absolute neutrino masses and their ordering. Physical Review D, 2017, 95, .	4.7	245
85	Global constraints on neutrino masses and their ordering. AIP Conference Proceedings, 2017, , .	0.4	0
86	Can interacting dark energy solve the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>H</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:math> tension?. Physical Review D, 2017, 96, .	4.7	268
87	Planck intermediate results. Astronomy and Astrophysics, 2017, 607, A95.	5.1	131
88	Planckintermediate results. Astronomy and Astrophysics, 2017, 607, A122.	5.1	24
89	Constraints on massive neutrinos in a non-standard PPS scenario. , 2017, , .		0
90	Recent results and perspectives on cosmology and fundamental physics from microwave surveys. , 2017, , .		0

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91	Robustness of cosmological thermal axion mass bounds. , 2017, , .		0
92	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A105.	5.1	47
93	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A1.	5.1	738
94	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A108.	5.1	375
95	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A109.	5.1	185
96	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A13.	5.1	8,344
97	Cosmological axion and neutrino mass constraints from Planck 2015 temperature and polarization data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 752, 182-185.	4.1	79
98	Recent results and perspectives on cosmology and fundamental physics from microwave surveys. International Journal of Modern Physics D, 2016, 25, 1630016.	2.1	0
99	A comment on power-law inflation with a dark radiation component. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 011-011.	5.4	26
100	Cosmological hints of modified gravity?. Physical Review D, 2016, 93, .	4.7	49
101	Dark radiation and inflationary freedom after Planck 2015. Physical Review D, 2016, 93, .	4.7	26
102	Cosmological limits on neutrino unknowns versus low redshift priors. Physical Review D, 2016, 93, .	4.7	52
103	Reconciling Planck with the local value of H 0 in extended parameter space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 761, 242-246.	4.1	279
104	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A110.	5.1	64
105	Constraints on the running of the running of the scalar tilt from CMB anisotropies and spectral distortions. Physical Review D, 2016, 94, .	4.7	30
106	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A107.	5.1	359
107	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A11.	5.1	613
108	Robustness of cosmological axion mass limits. Physical Review D, 2015, 91, .	4.7	20

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109	Beyond six parameters: Extending<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="normal">Î›</mml:mi><mml:mi>CDM</mml:mi></mml:math>. Physical Review D, 2015, 92, .	4.7	83
110	Blue gravity waves from BICEP2?. Physical Review D, 2014, 90, .	4.7	23
111	Planck constraints on neutrino isocurvature density perturbations. Physical Review D, 2014, 90, .	4.7	5
112	Probing nuclear rates with Planck and BICEP2. Physical Review D, 2014, 90, .	4.7	39
113	Axion cold dark matter: Status after Planck and BICEP2. Physical Review D, 2014, 90, .	4.7	22
114	Relic neutrinos, thermal axions, and cosmology in early 2014. Physical Review D, 2014, 90, .	4.7	74
115	Planck constraints on the effective neutrino number and the CMB power spectrum lensing amplitude. Physical Review D, 2013, 88, .	4.7	16
116	Dark radiation sterile neutrino candidates after Planck data. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 018-018.	5.4	34
117	Neutrino anisotropies after Planck. Physical Review D, 2013, 88, .	4.7	19
118	Tickling the CMB damping tail: Scrutinizing the tension between the Atacama Cosmology Telescope and South Pole Telescope experiments. Physical Review D, 2013, 88, .	4.7	14
119	Dark radiation and the CMB bispectrum. Physical Review D, 2013, 87, .	4.7	1
120	Parametrized modified gravity and the CMB bispectrum. Physical Review D, 2012, 86, .	4.7	20
121	Future constraints on neutrino isocurvature perturbations in the curvaton scenario. Physical Review D, 2012, 85, .	4.7	18
122	TESTING THE INFLATIONARY NULL ENERGY CONDITION WITH CURRENT AND FUTURE COSMIC MICROWAVE BACKGROUND DATA. International Journal of Modern Physics D, 2011, 20, 1183-1189.	2.1	5
123	Cosmological forecasts on thermal axions, relic neutrinos and light elements. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	11