Eleonora Di Valentino

List of Publications by Year
in descending order

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Version: 2024-02-01

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	<i>Planck</i>2015 results. Astronomy and Astrophysics, 2016, 594, A13.	5.1	8,344
2	<i>Planck</i>2018 results. Astronomy and Astrophysics, 2020, 641, A6.	5.1	6,722
3	In the realm of the Hubble tensionâ€"a review of solutions [*]. Classical and Quantum Gravity, 2021, 38, 153001.	4.0	816
4	<i>Planck</i>2015 results. Astronomy and Astrophysics, 2016, 594, A1.	5.1	738
5	<i>Planck</i>2015 results. Astronomy and Astrophysics, 2016, 594, A11.	5.1	613
6	<i>Planck</i> 2018 results. Astronomy and Astrophysics, 2020, 641, A5.	5.1	558
7	<i>Planck</i>2018 results. Astronomy and Astrophysics, 2020, 641, A8.	5.1	400
8	<i>Planck</i>intermediate results. Astronomy and Astrophysics, 2016, 596, A108.	5.1	375
9	Planck evidence for a closed Universe and a possible crisis for cosmology. Nature Astronomy, 2020, 4, 196-203.	10.1	363
10	<i>Planck</i>intermediate results. Astronomy and Astrophysics, 2016, 596, A107.	5.1	359
11	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
12	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
13	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
14	Global constraints on absolute neutrino masses and their ordering. Physical Review D, 2017, 95, .	4.7	245
15	Tale of stable interacting dark energy, observational signatures, and the <i>H</i>₀ tension. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 019-019.	5.4	237
16	Snowmass2021 - Letter of interest cosmology intertwined II: The hubble constant tension. Astroparticle Physics, 2021, 131, 102605.	4.3	228
17	Nonminimal dark sector physics and cosmological tensions. Physical Review D, 2020, 101, .	4.7	211
18	<i>Planck</i>intermediate results. Astronomy and Astrophysics, 2016, 596, A109.	5.1	185

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19	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
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: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
21	Constraining dark energy dynamics in extended parameter space. Physical Review D, 2017, 96, .	4.7	149
22	Reducing the <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 and <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></mm tensions with dark matter-neutrino interactions. Physical Review D, 2018, 97, .	4.7	133
23	<i>Planck </i>intermediate results. Astronomy and Astrophysics, 2017, 607, A95.	5.1	131
24	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
25	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
26	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
27	Unfinished fabric of the three neutrino paradigm. Physical Review D, 2021, 104, .	4.7	103
28	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
29	Exploring cosmic origins with CORE: Survey requirements and mission design. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 014-014.	5.4	98
30	Investigating Cosmic Discordance. Astrophysical Journal Letters, 2021, 908, L9.	8.3	96
31	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
32	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
33	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
34	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
35	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. Astrophysical Journal, 2022, 926, 54.	4.5	79
36	A combined analysis of the <i>H</i>0 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

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37	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
38	Dark Energy with Phantom Crossing and the H0 Tension. Entropy, 2021, 23, 404.	2.2	76
39	The galaxy power spectrum take on spatial curvature and cosmic concordance. Physics of the Dark Universe, 2021, 33, 100851.	4.9	76
40	Exploring cosmic origins with CORE: Inflation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 016-016.	5.4	75
41	Relic neutrinos, thermal axions, and cosmology in early 2014. Physical Review D, 2014, 90, .	4.7	74
42	Exploring cosmic origins with CORE: Cosmological parameters. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 017-017.	5.4	73
43	<i>Planck</i>intermediate results. Astronomy and Astrophysics, 2016, 596, A110.	5.1	64
44	Most constraining cosmological neutrino mass bounds. Physical Review D, 2021, 104, .	4.7	63
45	Addendum to â€œGlobal constraints on absolute neutrino masses and their orderingâ€. Physical Review D, 2020, 101, .	4.7	58
46	Dark sectors with dynamical coupling. Physical Review D, 2019, 100, .	4.7	54
47	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
48	Cosmological limits on neutrino unknowns versus low redshift priors. Physical Review D, 2016, 93, .	4.7	52
49	Cosmological hints of modified gravity?. Physical Review D, 2016, 93, .	4.7	49
50	<i>Planck</i>intermediate results. Astronomy and Astrophysics, 2016, 596, A105.	5.1	47
51	<i>Planck </i>intermediate results. Astronomy and Astrophysics, 2017, 599, A51.	5.1	46
52	Crack in the cosmological paradigm. Nature Astronomy, 2017, 1, 569-570.	10.1	46
53	Reconciling <i>H</i>₀ tension in a six parameter space?. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 062-062.	5.4	46
54	Dynamical dark energy after Planck CMB final release and <i>H</i>0 tension. Monthly Notices of the Royal Astronomical Society, 2021, 501, 5845-5858.	4.4	46

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55	Exploring the Tension between Current Cosmic Microwave Background and Cosmic Shear Data. Symmetry, 2018, 10, 585.	2.2	45
56	Exploring cosmic origins with CORE:<i>B</i>-mode component separation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 023-023.	5.4	44
57	All-inclusive interacting dark sector cosmologies. Physical Review D, 2020, 101, .	4.7	43
58	New tests of dark sector interactions from the full-shape galaxy power spectrum. Physical Review D, 2022, 105, .	4.7	42
59	Dark sector interaction and the supernova absolute magnitude tension. Physical Review D, 2021, 104, .	4.7	41
60	Probing nuclear rates with Planck and BICEP2. Physical Review D, 2014, 90, .	4.7	39
61	Snowmass2021 - Letter of interest cosmology intertwined IV: The age of the universe and its curvature. Astroparticle Physics, 2021, 131, 102607.	4.3	39
62	Snowmass2021 - Letter of interest cosmology intertwined I: Perspectives for the next decade. Astroparticle Physics, 2021, 131, 102606.	4.3	37
63	Interacting dark energy in a closed universe. Monthly Notices of the Royal Astronomical Society: Letters, 2021, 502, L23-L28.	3.3	37
64	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
65	2021-H₀ odyssey: closed, phantom and interacting dark energy cosmologies. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 008.	5.4	35
66	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
67	Dark radiation sterile neutrino candidates after Planck data. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 018-018.	5.4	34
68	Challenging bulk viscous unified scenarios with cosmological observations. Physical Review D, 2019, 100, .	4.7	34
69	Soundness of dark energy properties. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 045-045.	5.4	32
70	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
71	Neutrino Mass Bounds in the Era of Tension Cosmology. Astrophysical Journal Letters, 2022, 931, L18.	8.3	31
72	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

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73	New cosmological bounds on hot relics: axions and neutrinos. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2703-2711.	4.4	30
74	Emergent Dark Energy, neutrinos and cosmological tensions. Physics of the Dark Universe, 2021, 31, 100762.	4.9	30
75	Exploring cosmic origins with CORE: Gravitational lensing of the CMB. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 018-018.	5.4	29
76	Bayesian evidence against the Harrison-Zelâ€™dovich spectrum in tensions with cosmological data sets. Physical Review D, 2018, 98, .	4.7	29
77	Dynamical dark sectors and neutrino masses and abundances. Physical Review D, 2020, 102, .	4.7	28
78	A comment on power-law inflation with a dark radiation component. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 011-011.	5.4	26
79	Dark radiation and inflationary freedom after Planck 2015. Physical Review D, 2016, 93, .	4.7	26
80	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></mm from gravitational-wave standard sirens. Physical Review D, 2018, 98, .	4.7	26
81	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
82	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
83	<i>Planck</i>intermediate results. Astronomy and Astrophysics, 2017, 607, A122.	5.1	24
84	<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
85	Blue gravity waves from BICEP2?. Physical Review D, 2014, 90, .	4.7	23
86	A fake interacting dark energy detection?. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 500, L22-L26.	3.3	23
87	Forecasting interacting vacuum-energy models using gravitational waves. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 050-050.	5.4	23
88	Generalized emergent dark energy model and the Hubble constant tension. Physical Review D, 2021, 104, .	4.7	23
89	Axion cold dark matter: Status after Planck and BICEP2. Physical Review D, 2014, 90, .	4.7	22
90	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2018, 617, A48.	5.1	22

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91	Parametrized modified gravity and the CMB bispectrum. Physical Review D, 2012, 86, .	4.7	20
92	Robustness of cosmological axion mass limits. Physical Review D, 2015, 91, .	4.7	20
93	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> tension with future CMB data. Physical Review D, 2018, 97, .	4.7	20
94	Cosmological constraints on slow roll inflation: An update. Physical Review D, 2021, 104, .	4.7	20
95	Neutrino anisotropies after Planck. Physical Review D, 2013, 88, .	4.7	19
96	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
97	Touch of neutrinos on the vacuum metamorphosis: Is the H0 solution back?. Physical Review D, 2021, 103, .	4.7	19
98	Future constraints on neutrino isocurvature perturbations in the curvaton scenario. Physical Review D, 2012, 85, .	4.7	18
99	Exploring cosmic origins with CORE: Effects of observer peculiar motion. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 021-021.	5.4	18
100	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2018, 619, A94.	5.1	18
101	Fitting string inflation to real cosmological data: The fiber inflation case. Physical Review D, 2020, 102, .	4.7	18
102	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
103	Observational Constraints on Dynamical Dark Energy with Pivoting Redshift. Universe, 2019, 5, 219.	2.5	17
104	Planck constraints on the effective neutrino number and the CMB power spectrum lensing amplitude. Physical Review D, 2013, 88, .	4.7	16
105	Microwave spectro-polarimetry of matter and radiation across space and time. Experimental Astronomy, 2021, 51, 1471-1514.	3.7	15
106	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
107	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
108	Cosmological forecasts on thermal axions, relic neutrinos and light elements. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	11

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109	Minimal dark energy: Key to sterile neutrino and Hubble constant tensions?. Physical Review D, 2022, 105, .	4.7	11
110	Testing the inflationary slow-roll condition with tensor modes. Physical Review D, 2019, 99, .	4.7	10
111	Impact of theoretical assumptions in the determination of the neutrino effective number from future CMB measurements. Physical Review D, 2018, 97, .	4.7	8
112	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
113	Modified emergent dark energy and its astronomical constraints. International Journal of Modern Physics D, 2022, 31, .	2.1	6
114	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
115	Planck constraints on neutrino isocurvature density perturbations. Physical Review D, 2014, 90, .	4.7	5
116	Testing Predictions of the Quantum Landscape Multiverse 3: The Hilltop Inflationary Potential. Symmetry, 2019, 11, 520.	2.2	4
117	Dark radiation and the CMB bispectrum. Physical Review D, 2013, 87, .	4.7	1
118	Recent results and perspectives on cosmology and fundamental physics from microwave surveys. International Journal of Modern Physics D, 2016, 25, 1630016.	2.1	0
119	Global constraints on neutrino masses and their ordering. AIP Conference Proceedings, 2017, , .	0.4	0
120	STATUS OF THREE NEUTRINO MASS AND MIXING PARAMETERS. , 2021, , .		0
121	Constraints on massive neutrinos in a non-standard PPS scenario. , 2017, , .		0
122	Recent results and perspectives on cosmology and fundamental physics from microwave surveys. , 2017, , .		0
123	Robustness of cosmological thermal axion mass bounds. , 2017, , .		0