

# Eleonora Di Valentino

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114  
papers

15,447  
citations

39  
h-index

124  
g-index

124  
ext. papers

20,598  
ext. citations

4.9  
avg, IF

6.75  
L-index

#	Paper	IF	Citations
114	Constraints from high-precision measurements of the cosmic microwave background: the case of disintegrating dark matter with $\Lambda$ CDM dynamical dark energy. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2022</b> , 2022, 012	6.4	2
113	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , <b>2022</b> , 926, 54	4.7	9
112	Late-transition versus smooth $H(z)$ -deformation models for the resolution of the Hubble crisis. <i>Physical Review D</i> , <b>2022</b> , 105,	4.9	2
111	Cosmology Intertwined: A Review of the Particle Physics, Astrophysics, and Cosmology Associated with the Cosmological Tensions and Anomalies. <i>Journal of High Energy Astrophysics</i> , <b>2022</b> , 34, 49-49	2.5	17
110	Neutrino Mass Bounds in the Era of Tension Cosmology. <i>Astrophysical Journal Letters</i> , <b>2022</b> , 931, L18	7.9	1
109	Cosmological constraints on slow roll inflation: An update. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	4
108	The ( $H_0$ ) Tensions to Discriminate Among Concurring Models <b>2021</b> , 483-505		1
107	Unfinished fabric of the three neutrino paradigm. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	9
106	2021- $H_0$ odyssey: closed, phantom and interacting dark energy cosmologies. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2021</b> , 2021, 008	6.4	9
105	Dynamical dark energy after Planck CMB final release and $H_0$ tension. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 501, 5845-5858	4.3	20
104	Dark Energy with Phantom Crossing and the Tension. <i>Entropy</i> , <b>2021</b> , 23,	2.8	20
103	New cosmological bounds on hot relics: axions and neutrinos. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 505, 2703-2711	4.3	6
102	Touch of neutrinos on the vacuum metamorphosis: Is the $H_0$ solution back?. <i>Physical Review D</i> , <b>2021</b> , 103,	4.9	11
101	Investigating Cosmic Discordance. <i>Astrophysical Journal Letters</i> , <b>2021</b> , 908, L9	7.9	37
100	In the realm of the Hubble tension—review of solutions and perspectives. <i>Classical and Quantum Gravity</i> , <b>2021</b> , 38, 153001	3.3	193
99	Snowmass2021 - Letter of interest cosmology intertwined I: Perspectives for the next decade. <i>Astroparticle Physics</i> , <b>2021</b> , 131, 102606	2.4	13
98	Dark sector interaction and the supernova absolute magnitude tension. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	12

97	The galaxy power spectrum take on spatial curvature and cosmic concordance. <i>Physics of the Dark Universe</i> , <b>2021</b> , 33, 100851	4.4	25
96	Snowmass2021 - Letter of interest cosmology intertwined II: The hubble constant tension. <i>Astroparticle Physics</i> , <b>2021</b> , 131, 102605	2.4	65
95	Snowmass2021 - Letter of interest cosmology intertwined IV: The age of the universe and its curvature. <i>Astroparticle Physics</i> , <b>2021</b> , 131, 102607	2.4	16
94	Generalized emergent dark energy model and the Hubble constant tension. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	5
93	Cosmology intertwined III: $f\sigma_8$ and S8. <i>Astroparticle Physics</i> , <b>2021</b> , 131, 102604	2.4	51
92	Most constraining cosmological neutrino mass bounds. <i>Physical Review D</i> , <b>2021</b> , 104,	4.9	10
91	Dissecting the H0 and S8 tensions with Planck + BAO + supernova type Ia in multi-parameter cosmologies. <i>Journal of High Energy Astrophysics</i> , <b>2021</b> , 32, 28-64	2.5	8
90	Interacting dark energy in a closed universe. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2021</b> , 502, L23-L28	4.3	13
89	A combined analysis of the H0 late time direct measurements and the impact on the Dark Energy sector. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 502, 2065-2073	4.3	31
88	Emergent Dark Energy, neutrinos and cosmological tensions. <i>Physics of the Dark Universe</i> , <b>2021</b> , 31, 100762	4.4	15
87	Forecasting interacting vacuum-energy models using gravitational waves. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2020</b> , 2020, 050-050	6.4	11
86	Interacting dark energy in the early 2020s: A promising solution to the H0 and cosmic shear tensions. <i>Physics of the Dark Universe</i> , <b>2020</b> , 30, 100666	4.4	90
85	Cosmological constraints in extended parameter space from the Planck 2018 Legacy release. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2020</b> , 2020, 013-013	6.4	51
84	Nonminimal dark sector physics and cosmological tensions. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	111
83	H0 ex machina: Vacuum metamorphosis and beyond H0. <i>Physics of the Dark Universe</i> , <b>2020</b> , 30, 100733	4.4	12
82	Planck2018 results. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 641, A8	5.1	173
81	Planck 2018 results. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 641, A5	5.1	229
80	Planck evidence for a closed Universe and a possible crisis for cosmology. <i>Nature Astronomy</i> , <b>2020</b> , 4, 196-203	12.1	188

79	Addendum to Global constraints on absolute neutrino masses and their ordering. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	29
78	Reconciling H0 tension in a six parameter space?. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2020</b> , 2020, 062-062	6.4	29
77	A fake interacting dark energy detection?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2020</b> , 500, L22-L26	4.3	11
76	Dynamical dark sectors and neutrino masses and abundances. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	15
75	Soundness of dark energy properties. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2020</b> , 2020, 045-045.	4.4	15
74	Fitting string inflation to real cosmological data: The fiber inflation case. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	5
73	Metastable dark energy models in light of Planck 2018 data: Alleviating the H0 tension. <i>Physical Review D</i> , <b>2020</b> , 102,	4.9	17
72	All-inclusive interacting dark sector cosmologies. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	27
71	Planck 2018 results. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 641, A6	5.1	2476
70	Testing the inflationary slow-roll condition with tensor modes. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	6
69	Dark Energy Survey year 1 results: Constraints on extended cosmological models from galaxy clustering and weak lensing. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	89
68	Testing Predictions of the Quantum Landscape Multiverse 3: The Hilltop Inflationary Potential. <i>Symmetry</i> , <b>2019</b> , 11, 520	2.7	1
67	Observational constraints on one-parameter dynamical dark-energy parametrizations and the H0 tension. <i>Physical Review D</i> , <b>2019</b> , 99,	4.9	58
66	Listening to the sound of dark sector interactions with gravitational wave standard sirens. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2019</b> , 2019, 037-037	6.4	50
65	Late time transitions in the quintessence field and the H0 tension. <i>Physics of the Dark Universe</i> , <b>2019</b> , 26, 100385	4.4	36
64	Dark sectors with dynamical coupling. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	40
63	Observational Constraints on Dynamical Dark Energy with Pivoting Redshift. <i>Universe</i> , <b>2019</b> , 5, 219	2.5	9
62	Dawn of the dark: unified dark sectors and the EDGES Cosmic Dawn 21-cm signal. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2019</b> , 2019, 044-044	6.4	23

61	Challenging bulk viscous unified scenarios with cosmological observations. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	20
60	Interacting scenarios with dynamical dark energy: Observational constraints and alleviation of the H0 tension. <i>Physical Review D</i> , <b>2019</b> , 100,	4.9	72
59	First cosmological constraints combining Planck with the recent gravitational-wave standard siren measurement of the Hubble constant. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	17
58	Vacuum phase transition solves the H0 tension. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	103
57	Exploring cosmic origins with CORE: Survey requirements and mission design. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2018</b> , 2018, 014-014	6.4	68
56	Exploring cosmic origins with CORE: Inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2018</b> , 2018, 016-016	6.4	52
55	Exploring cosmic origins with CORE: Cosmological parameters. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2018</b> , 2018, 017-017	6.4	54
54	Exploring cosmic origins with CORE: Gravitational lensing of the CMB. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2018</b> , 2018, 018-018	6.4	20
53	Exploring cosmic origins with CORE: Effects of observer peculiar motion. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2018</b> , 2018, 021-021	6.4	12
52	Exploring cosmic origins with CORE: B-mode component separation. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2018</b> , 2018, 023-023	6.4	33
51	Impact of theoretical assumptions in the determination of the neutrino effective number from future CMB measurements. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	6
50	The impact of primordial magnetic fields on future CMB bounds on inflationary gravitational waves. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2018</b> , 2018, 038-038	6.4	6
49	Exploring the Tension between Current Cosmic Microwave Background and Cosmic Shear Data. <i>Symmetry</i> , <b>2018</b> , 10, 585	2.7	29
48	Interacting dark energy with time varying equation of state and the H0 tension. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	76
47	Planck intermediate results. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 619, A94	5.1	15
46	Planck intermediate results. <i>Astronomy and Astrophysics</i> , <b>2018</b> , 617, A48	5.1	15
45	Cosmological impact of future constraints on H0 from gravitational-wave standard sirens. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	21
44	Bayesian evidence against the Harrison-Zel'dovich spectrum in tensions with cosmological data sets. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	14

43	Tale of stable interacting dark energy, observational signatures, and the H0 tension. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2018</b> , 2018, 019-019	6.4	159
42	Cornering the Planck Alens tension with future CMB data. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	14
41	Reducing the H0 and $\Omega_b$ tensions with dark matter-neutrino interactions. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	101
40	Testing predictions of the quantum landscape multiverse 1: the Starobinsky inflationary potential. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2017</b> , 2017, 002-002	6.4	13
39	Planck intermediate results. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 599, A51	5.1	38
38	Testing predictions of the quantum landscape multiverse 2: the exponential inflationary potential. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2017</b> , 2017, 020-020	6.4	19
37	Planck intermediate results. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 607, A95	5.1	100
36	Planck intermediate results. <i>Astronomy and Astrophysics</i> , <b>2017</b> , 607, A122	5.1	17
35	Constraining dark energy dynamics in extended parameter space. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	122
34	Global constraints on absolute neutrino masses and their ordering. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	195
33	Can interacting dark energy solve the H0 tension?. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	200
32	Cosmological hints of modified gravity?. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	40
31	Dark radiation and inflationary freedom after Planck 2015. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	23
30	Cosmological limits on neutrino unknowns versus low redshift priors. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	46
29	Reconciling Planck with the local value of H0 in extended parameter space. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 761, 242-246	4.2	216
28	Planckintermediate results. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 596, A110	5.1	42
27	Constraints on the running of the running of the scalar tilt from CMB anisotropies and spectral distortions. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	27
26	Planckintermediate results. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 596, A107	5.1	302

25	Planck2015 results. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 594, A11	5.1	546
24	Planckintermediate results. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 596, A105	5.1	39
23	Planck2015 results. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 594, A1	5.1	596
22	Planckintermediate results. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 596, A108	5.1	318
21	Planckintermediate results. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 596, A109	5.1	114
20	Planck2015 results. <i>Astronomy and Astrophysics</i> , <b>2016</b> , 594, A13	5.1	6658
19	Cosmological axion and neutrino mass constraints from Planck 2015 temperature and polarization data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 752, 182-185	4.2	57
18	Recent results and perspectives on cosmology and fundamental physics from microwave surveys. <i>International Journal of Modern Physics D</i> , <b>2016</b> , 25, 1630016	2.2	
17	A comment on power-law inflation with a dark radiation component. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2016</b> , 2016, 011-011	6.4	20
16	Robustness of cosmological axion mass limits. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	15
15	Beyond six parameters: Extending $\Lambda$ CDM. <i>Physical Review D</i> , <b>2015</b> , 92,	4.9	65
14	Relic neutrinos, thermal axions, and cosmology in early 2014. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	66
13	Blue gravity waves from BICEP2?. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	23
12	Planck constraints on neutrino isocurvature density perturbations. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	5
11	Probing nuclear rates with Planck and BICEP2. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	34
10	Axion cold dark matter: Status after Planck and BICEP2. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	21
9	Planck constraints on the effective neutrino number and the CMB power spectrum lensing amplitude. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	15
8	Dark radiation sterile neutrino candidates after Planck data. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2013</b> , 2013, 018-018	6.4	30

7	Neutrino anisotropies after Planck. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	15
6	Tickling the CMB damping tail: Scrutinizing the tension between the Atacama Cosmology Telescope and South Pole Telescope experiments. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	14
5	Dark radiation and the CMB bispectrum. <i>Physical Review D</i> , <b>2013</b> , 87,	4.9	1
4	Parametrized modified gravity and the CMB bispectrum. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	18
3	Future constraints on neutrino isocurvature perturbations in the curvaton scenario. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	15
2	TESTING THE INFLATIONARY NULL ENERGY CONDITION WITH CURRENT AND FUTURE COSMIC MICROWAVE BACKGROUND DATA. <i>International Journal of Modern Physics D</i> , <b>2011</b> , 20, 1183-1189	2.2	4
1	Microwave spectro-polarimetry of matter and radiation across space and time. <i>Experimental Astronomy</i> ,1	1.3	5