

Eleonora Di Valentino

List of Publications by Citations

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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	Planck2015 results. <i>Astronomy and Astrophysics</i> , 2016 , 594, A13	5.1	6658
113	Planck 2018 results. <i>Astronomy and Astrophysics</i> , 2020 , 641, A6	5.1	2476
112	Planck2015 results. <i>Astronomy and Astrophysics</i> , 2016 , 594, A1	5.1	596
111	Planck2015 results. <i>Astronomy and Astrophysics</i> , 2016 , 594, A11	5.1	546
110	Planckintermediate results. <i>Astronomy and Astrophysics</i> , 2016 , 596, A108	5.1	318
109	Planckintermediate results. <i>Astronomy and Astrophysics</i> , 2016 , 596, A107	5.1	302
108	Planck 2018 results. <i>Astronomy and Astrophysics</i> , 2020 , 641, A5	5.1	229
107	Reconciling Planck with the local value of H_0 in extended parameter space. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 761, 242-246	4.2	216
106	Can interacting dark energy solve the H_0 tension?. <i>Physical Review D</i> , 2017 , 96,	4.9	200
105	Global constraints on absolute neutrino masses and their ordering. <i>Physical Review D</i> , 2017 , 95,	4.9	195
104	In the realm of the Hubble tension—review of solutions *. <i>Classical and Quantum Gravity</i> , 2021 , 38, 153001	3.3	193
103	Planck evidence for a closed Universe and a possible crisis for cosmology. <i>Nature Astronomy</i> , 2020 , 4, 196-203	12.1	188
102	Planck2018 results. <i>Astronomy and Astrophysics</i> , 2020 , 641, A8	5.1	173
101	Tale of stable interacting dark energy, observational signatures, and the H_0 tension. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018 , 2018, 019-019	6.4	159
100	Constraining dark energy dynamics in extended parameter space. <i>Physical Review D</i> , 2017 , 96,	4.9	122
99	Planckintermediate results. <i>Astronomy and Astrophysics</i> , 2016 , 596, A109	5.1	114
98	Nonminimal dark sector physics and cosmological tensions. <i>Physical Review D</i> , 2020 , 101,	4.9	111

97	Vacuum phase transition solves the H0 tension. <i>Physical Review D</i> , 2018 , 97,	4.9	103
96	Reducing the H0 and Ω_b tensions with dark matter-neutrino interactions. <i>Physical Review D</i> , 2018 , 97,	4.9	101
95	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2017 , 607, A95	5.1	100
94	Interacting dark energy in the early 2020s: A promising solution to the H0 and cosmic shear tensions. <i>Physics of the Dark Universe</i> , 2020 , 30, 100666	4.4	90
93	Dark Energy Survey year 1 results: Constraints on extended cosmological models from galaxy clustering and weak lensing. <i>Physical Review D</i> , 2019 , 99,	4.9	89
92	Interacting dark energy with time varying equation of state and the H0 tension. <i>Physical Review D</i> , 2018 , 98,	4.9	76
91	Interacting scenarios with dynamical dark energy: Observational constraints and alleviation of the H0 tension. <i>Physical Review D</i> , 2019 , 100,	4.9	72
90	Exploring cosmic origins with CORE: Survey requirements and mission design. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018 , 2018, 014-014	6.4	68
89	Relic neutrinos, thermal axions, and cosmology in early 2014. <i>Physical Review D</i> , 2014 , 90,	4.9	66
88	Beyond six parameters: Extending Λ CDM. <i>Physical Review D</i> , 2015 , 92,	4.9	65
87	Snowmass2021 - Letter of interest cosmology intertwined II: The hubble constant tension. <i>Astroparticle Physics</i> , 2021 , 131, 102605	2.4	65
86	Observational constraints on one-parameter dynamical dark-energy parametrizations and the H0 tension. <i>Physical Review D</i> , 2019 , 99,	4.9	58
85	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> , 2016 , 752, 182-185	4.2	57
84	Exploring cosmic origins with CORE: Cosmological parameters. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018 , 2018, 017-017	6.4	54
83	Exploring cosmic origins with CORE: Inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018 , 2018, 016-016	6.4	52
82	Cosmological constraints in extended parameter space from the Planck 2018 Legacy release. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020 , 2020, 013-013	6.4	51
81	Cosmology intertwined III: Ω_b and S_8 . <i>Astroparticle Physics</i> , 2021 , 131, 102604	2.4	51
80	Listening to the sound of dark sector interactions with gravitational wave standard sirens. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019 , 2019, 037-037	6.4	50

79	Cosmological limits on neutrino unknowns versus low redshift priors. <i>Physical Review D</i> , 2016 , 93,	4.9	46
78	Planckintermediate results. <i>Astronomy and Astrophysics</i> , 2016 , 596, A110	5.1	42
77	Cosmological hints of modified gravity?. <i>Physical Review D</i> , 2016 , 93,	4.9	40
76	Dark sectors with dynamical coupling. <i>Physical Review D</i> , 2019 , 100,	4.9	40
75	Planckintermediate results. <i>Astronomy and Astrophysics</i> , 2016 , 596, A105	5.1	39
74	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2017 , 599, A51	5.1	38
73	Investigating Cosmic Discordance. <i>Astrophysical Journal Letters</i> , 2021 , 908, L9	7.9	37
72	Late time transitions in the quintessence field and the H0 tension. <i>Physics of the Dark Universe</i> , 2019 , 26, 100385	4.4	36
71	Probing nuclear rates with Planck and BICEP2. <i>Physical Review D</i> , 2014 , 90,	4.9	34
70	Exploring cosmic origins with CORE:B-mode component separation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018 , 2018, 023-023	6.4	33
69	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> , 2021 , 502, 2065-2073	4.3	31
68	Dark radiation sterile neutrino candidates after Planck data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013 , 2013, 018-018	6.4	30
67	Addendum to Global constraints on absolute neutrino masses and their ordering. <i>Physical Review D</i> , 2020 , 101,	4.9	29
66	Reconciling H0 tension in a six parameter space?. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020 , 2020, 062-062	6.4	29
65	Exploring the Tension between Current Cosmic Microwave Background and Cosmic Shear Data. <i>Symmetry</i> , 2018 , 10, 585	2.7	29
64	Constraints on the running of the running of the scalar tilt from CMB anisotropies and spectral distortions. <i>Physical Review D</i> , 2016 , 94,	4.9	27
63	All-inclusive interacting dark sector cosmologies. <i>Physical Review D</i> , 2020 , 101,	4.9	27
62	The galaxy power spectrum take on spatial curvature and cosmic concordance. <i>Physics of the Dark Universe</i> , 2021 , 33, 100851	4.4	25

61	Dark radiation and inflationary freedom after Planck 2015. <i>Physical Review D</i> , 2016 , 93,	4.9	23
60	Blue gravity waves from BICEP2?. <i>Physical Review D</i> , 2014 , 90,	4.9	23
59	Dawn of the dark: unified dark sectors and the EDGES Cosmic Dawn 21-cm signal. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019 , 2019, 044-044	6.4	23
58	Axion cold dark matter: Status after Planck and BICEP2. <i>Physical Review D</i> , 2014 , 90,	4.9	21
57	Cosmological impact of future constraints on H0 from gravitational-wave standard sirens. <i>Physical Review D</i> , 2018 , 98,	4.9	21
56	Exploring cosmic origins with CORE: Gravitational lensing of the CMB. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018 , 2018, 018-018	6.4	20
55	Dynamical dark energy after Planck CMB final release and H0 tension. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 501, 5845-5858	4.3	20
54	Dark Energy with Phantom Crossing and the Tension. <i>Entropy</i> , 2021 , 23,	2.8	20
53	A comment on power-law inflation with a dark radiation component. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016 , 2016, 011-011	6.4	20
52	Challenging bulk viscous unified scenarios with cosmological observations. <i>Physical Review D</i> , 2019 , 100,	4.9	20
51	Testing predictions of the quantum landscape multiverse 2: the exponential inflationary potential. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017 , 2017, 020-020	6.4	19
50	Parametrized modified gravity and the CMB bispectrum. <i>Physical Review D</i> , 2012 , 86,	4.9	18
49	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2017 , 607, A122	5.1	17
48	First cosmological constraints combining Planck with the recent gravitational-wave standard siren measurement of the Hubble constant. <i>Physical Review D</i> , 2018 , 97,	4.9	17
47	Metastable dark energy models in light of Planck 2018 data: Alleviating the H0 tension. <i>Physical Review D</i> , 2020 , 102,	4.9	17
46	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> , 2022 , 34, 49-49	2.5	17
45	Snowmass2021 - Letter of interest cosmology intertwined IV: The age of the universe and its curvature. <i>Astroparticle Physics</i> , 2021 , 131, 102607	2.4	16
44	Planck constraints on the effective neutrino number and the CMB power spectrum lensing amplitude. <i>Physical Review D</i> , 2013 , 88,	4.9	15

43	Robustness of cosmological axion mass limits. <i>Physical Review D</i> , 2015 , 91,	4.9	15
42	Neutrino anisotropies after Planck. <i>Physical Review D</i> , 2013 , 88,	4.9	15
41	Future constraints on neutrino isocurvature perturbations in the curvaton scenario. <i>Physical Review D</i> , 2012 , 85,	4.9	15
40	Dynamical dark sectors and neutrino masses and abundances. <i>Physical Review D</i> , 2020 , 102,	4.9	15
39	Soundness of dark energy properties. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020 , 2020, 045-046.	4.4	15
38	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2018 , 619, A94	5.1	15
37	Planck intermediate results. <i>Astronomy and Astrophysics</i> , 2018 , 617, A48	5.1	15
36	Emergent Dark Energy, neutrinos and cosmological tensions. <i>Physics of the Dark Universe</i> , 2021 , 31, 100762	4.2	15
35	Tickling the CMB damping tail: Scrutinizing the tension between the Atacama Cosmology Telescope and South Pole Telescope experiments. <i>Physical Review D</i> , 2013 , 88,	4.9	14
34	Bayesian evidence against the Harrison-Zel'dovich spectrum in tensions with cosmological data sets. <i>Physical Review D</i> , 2018 , 98,	4.9	14
33	Cornering the Planck Alens tension with future CMB data. <i>Physical Review D</i> , 2018 , 97,	4.9	14
32	Testing predictions of the quantum landscape multiverse 1: the Starobinsky inflationary potential. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017 , 2017, 002-002	6.4	13
31	Snowmass2021 - Letter of interest cosmology intertwined I: Perspectives for the next decade. <i>Astroparticle Physics</i> , 2021 , 131, 102606	2.4	13
30	Interacting dark energy in a closed universe. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2021 , 502, L23-L28	4.3	13
29	Exploring cosmic origins with CORE: Effects of observer peculiar motion. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018 , 2018, 021-021	6.4	12
28	H0 ex machina: Vacuum metamorphosis and beyond H0. <i>Physics of the Dark Universe</i> , 2020 , 30, 100733	4.4	12
27	Dark sector interaction and the supernova absolute magnitude tension. <i>Physical Review D</i> , 2021 , 104,	4.9	12
26	Forecasting interacting vacuum-energy models using gravitational waves. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020 , 2020, 050-050	6.4	11

25	A fake interacting dark energy detection?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020 , 500, L22-L26	4.3	11
24	Touch of neutrinos on the vacuum metamorphosis: Is the H0 solution back?. <i>Physical Review D</i> , 2021 , 103,	4.9	11
23	Most constraining cosmological neutrino mass bounds. <i>Physical Review D</i> , 2021 , 104,	4.9	10
22	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022 , 926, 54	4.7	9
21	Unfinished fabric of the three neutrino paradigm. <i>Physical Review D</i> , 2021 , 104,	4.9	9
20	2021-H0 odyssey: closed, phantom and interacting dark energy cosmologies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021 , 2021, 008	6.4	9
19	Observational Constraints on Dynamical Dark Energy with Pivoting Redshift. <i>Universe</i> , 2019 , 5, 219	2.5	9
18	Dissecting the H0 and S8 tensions with Planck + BAO + supernova type Ia in multi-parameter cosmologies. <i>Journal of High Energy Astrophysics</i> , 2021 , 32, 28-64	2.5	8
17	Testing the inflationary slow-roll condition with tensor modes. <i>Physical Review D</i> , 2019 , 99,	4.9	6
16	Impact of theoretical assumptions in the determination of the neutrino effective number from future CMB measurements. <i>Physical Review D</i> , 2018 , 97,	4.9	6
15	The impact of primordial magnetic fields on future CMB bounds on inflationary gravitational waves. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018 , 2018, 038-038	6.4	6
14	New cosmological bounds on hot relics: axions and neutrinos. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 505, 2703-2711	4.3	6
13	Planck constraints on neutrino isocurvature density perturbations. <i>Physical Review D</i> , 2014 , 90,	4.9	5
12	Fitting string inflation to real cosmological data: The fiber inflation case. <i>Physical Review D</i> , 2020 , 102,	4.9	5
11	Microwave spectro-polarimetry of matter and radiation across space and time. <i>Experimental Astronomy</i> , 1	1.3	5
10	Generalized emergent dark energy model and the Hubble constant tension. <i>Physical Review D</i> , 2021 , 104,	4.9	5
9	TESTING THE INFLATIONARY NULL ENERGY CONDITION WITH CURRENT AND FUTURE COSMIC MICROWAVE BACKGROUND DATA. <i>International Journal of Modern Physics D</i> , 2011 , 20, 1183-1189	2.2	4
8	Cosmological constraints on slow roll inflation: An update. <i>Physical Review D</i> , 2021 , 104,	4.9	4

7	Constraints from high-precision measurements of the cosmic microwave background: the case of disintegrating dark matter with Ω_b dynamical dark energy. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022 , 2022, 012	6.4	2
6	Late-transition versus smooth $H(z)$ -deformation models for the resolution of the Hubble crisis. <i>Physical Review D</i> , 2022 , 105,	4.9	2
5	Testing Predictions of the Quantum Landscape Multiverse 3: The Hilltop Inflationary Potential. <i>Symmetry</i> , 2019 , 11, 520	2.7	1
4	Dark radiation and the CMB bispectrum. <i>Physical Review D</i> , 2013 , 87,	4.9	1
3	The (H_0) Tensions to Discriminate Among Concurring Models 2021 , 483-505		1
2	Neutrino Mass Bounds in the Era of Tension Cosmology. <i>Astrophysical Journal Letters</i> , 2022 , 931, L18	7.9	1
1	Recent results and perspectives on cosmology and fundamental physics from microwave surveys. <i>International Journal of Modern Physics D</i> , 2016 , 25, 1630016	2.2	