Massimiliano Lattanzi

List of Publications by Year
in descending order

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124 papers	27,861 citations	31976 53 h-index	20358 116 g-index
124 all docs	124 docs citations	124 times ranked	18338 citing authors

#	Article	IF	Citations
1	Thermal axions with multi-eV masses are possible in low-reheating scenarios. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 031.	5.4	12
2	Bounds on light sterile neutrino mass and mixing from cosmology and laboratory searches. Physical Review D, 2021, 104, .	4.7	32
3	Cornering (quasi) degenerate neutrinos with cosmology. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
4	Likelihood Methods for CMB Experiments. Frontiers in Physics, 2020, 8, .	2.1	12
5	Planck intermediate results. Astronomy and Astrophysics, 2020, 644, A99.	5.1	4
6	Planck intermediate results. Astronomy and Astrophysics, 2020, 644, A100.	5.1	20
7	Planck intermediate results. Astronomy and Astrophysics, 2020, 643, A42.	5.1	123
8	Cosmological constraints on neutrino self-interactions with a light mediator. Physical Review D, 2019, 100, .	4.7	51
9	Decaying warm dark matter and structure formation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 026-026.	5.4	11
10	Status of Neutrino Properties and Future Prospectsâ€”Cosmological and Astrophysical Constraints. Frontiers in Physics, 2018, 5, .	2.1	102
11	The evens and odds of CMB anomalies. Physics of the Dark Universe, 2018, 20, 49-64.	4.9	27
12	Planck intermediate results. Astronomy and Astrophysics, 2017, 599, A51.	5.1	46
13	Cosmic microwave background constraints on secret interactions among sterile neutrinos. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 038-038.	5.4	43
14	On the impact of large angle CMB polarization data on cosmological parameters. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 041-041.	5.4	15
15	Unveiling <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î½</mml:mi></mml:math> secrets with cosmological data: Neutrino masses and mass hierarchy. Physical Review D, 2017, 96, .	4.7	277
16	A novel approach to quantifying the sensitivity of current and future cosmological datasets to the neutrino mass ordering through Bayesian hierarchical modeling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 239-250.	4.1	36
17	Impact of neutrino properties on the estimation of inflationary parameters from current and future observations. Physical Review D, 2017, 95, .	4.7	70
18	Planck intermediate results. Astronomy and Astrophysics, 2017, 607, A95.	5.1	131

#	Article	IF	Citations
19	Planckintermediate results. Astronomy and Astrophysics, 2017, 607, A122.	5.1	24
20	Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A140.	5.1	89
21	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A28.	5.1	134
22	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A7.	5.1	94
23	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A10.	5.1	384
24	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A23.	5.1	89
25	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A12.	5.1	117
26	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A24.	5.1	525
27	Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A132.	5.1	109
28	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A6.	5.1	62
29	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A2.	5.1	79
30	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A8.	5.1	209
31	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A9.	5.1	182
32	Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A141.	5.1	55
33	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A100.	5.1	44
34	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A5.	5.1	55
35	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A4.	5.1	56
36	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A18.	5.1	69

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37	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A21.	5.1	114
38	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A3.	5.1	53
39	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A19.	5.1	273
40	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A16.	5.1	338
41	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A20.	5.1	1,233
42	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A101.	5.1	24
43	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A105.	5.1	47
44	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A27.	5.1	535
45	Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A138.	5.1	270
46	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A1.	5.1	738
47	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A108.	5.1	375
48	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A14.	5.1	568
49	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A15.	5.1	360
50	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A25.	5.1	153
51	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A103.	5.1	89
52	Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A133.	5.1	173
53	Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A137.	5.1	27
54	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A109.	5.1	185

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55	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A13.	5.1	8,344
56	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
57	Breaking Be: a sterile neutrino solution to the cosmological lithium problem. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 022-022.	5.4	14
58	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î½</mml:mi></mml:math>generation: Present and future constraints on neutrino masses from global analysis of cosmology and laboratory experiments. Physical Review D, 2016, 93, .	4.7	21
59	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A22.	5.1	274
60	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A106.	5.1	23
61	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A102.	5.1	25
62	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A104.	5.1	36
63	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A110.	5.1	64
64	Planck 2015constraints on neutrino physics. Journal of Physics: Conference Series, 2016, 718, 032008.	0.4	6
65	Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A135.	5.1	109
66	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A26.	5.1	182
67	Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A107.	5.1	359
68	Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A139.	5.1	32
69	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A17.	5.1	440
70	Planck2015 results. Astronomy and Astrophysics, 2016, 594, A11.	5.1	613
71	Bounds on very low reheating scenarios after Planck. Physical Review D, 2015, 92, .	4.7	181
72	Planckintermediate results. XXVI. Optical identification and redshifts ofPlanckclusters with the RTT150 telescope. Astronomy and Astrophysics, 2015, 582, A29.	5.1	46

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73	Planckintermediate results. Astronomy and Astrophysics, 2015, 582, A31.	5.1	59
74	Planckintermediate results. Astronomy and Astrophysics, 2015, 582, A28.	5.1	33
75	Joint Analysis of BICEP2/Keck ArrayandPlanckData. Physical Review Letters, 2015, 114, 101301.	7.8	819
76	Absolute neutrino mass scale: session summary. Nuclear and Particle Physics Proceedings, 2015, 265-266, 333-338.	0.5	0
77	Constraints on secret neutrino interactions after Planck. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 014-014.	5.4	46
78	Revisiting cosmological bounds on sterile neutrinos. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 006-006.	5.4	50
79	Connecting neutrino physics with dark matter. New Journal of Physics, 2014, 16, 125012.	2.9	34
80	PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 006-006.	5.4	138
81	Axion cold dark matter: Status after Planck and BICEP2. Physical Review D, 2014, 90, .	4.7	22
82	Relic neutrinos, thermal axions, and cosmology in early 2014. Physical Review D, 2014, 90, .	4.7	74
83	Constraints on majoron dark matter from cosmic microwave background and astrophysical observations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 742, 154-157.	1.6	3
84	Planck2013 results. I. Overview of products and scientific results. Astronomy and Astrophysics, 2014, 571, A1.	5.1	948
85	Planck2013 results. XV. CMB power spectra and likelihood. Astronomy and Astrophysics, 2014, 571, A15.	5.1	364
86	Planck2013 results. II. Low Frequency Instrument data processing. Astronomy and Astrophysics, 2014, 571, A2.	5.1	74
87	Planck2013 results. XVI. Cosmological parameters. Astronomy and Astrophysics, 2014, 571, A16.	5.1	4,703
88	Cosmological implications of a viable non-analytical f(R) model. European Physical Journal Plus, 2013, 128, 1.	2.6	7
89	Featuring the primordial power spectrum: New constraints on interrupted slow-roll from CMB and LRG data. Physical Review D, 2013, 87, .	4.7	16
90	Cosmological data and indications for new physics. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 030-030.	5.4	8

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91	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
92	Updated CMB and x- and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi></mml:math>-ray constraints on Majoron dark matter. Physical Review D, 2013, 88, .	4.7	49
93	Future constraints on neutrino isocurvature perturbations in the curvaton scenario. Physical Review D, 2012, 85, .	4.7	18
94	Gravitational instability of the primordial plasma: Anisotropic evolution of structure seeds. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 255-264.	4.1	6
95	Cosmological lepton asymmetry with a nonzero mixing angle<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î¸</mml:mi><mml:mn>13</mml:mn></mml:msub></mml:math>. Physical Review D, 2012, 86, .	4.7	52
96	Stability of a self-gravitating homogeneous resistive plasma. Physica D: Nonlinear Phenomena, 2012, 241, 721-728.	2.8	5
97	ENHANCEMENT OF THE DARK MATTER ANNIHILATION CROSS SECTION IN COLD SUBSTRUCTURES. , 2012, , .		0
98	Features in the primordial spectrum: New constraints from WMAP7 and ACT data and prospects for the Planck mission. Physical Review D, 2011, 84, .	4.7	25
99	Signatures of the neutrino thermal history in the spectrum of primordial gravitational waves. General Relativity and Gravitation, 2011, 43, 945-958.	2.0	10
100	On the Viability of a Non-Analytical f (R)-Theory. Springer Proceedings in Physics, 2011, , 227-236.	0.2	1
101	A separable solution for the oscillatory structure of plasma in accretion disks. Europhysics Letters, 2010, 89, 39001.	2.0	6
102	Imprint of cosmic neutrino decoupling in the spectrum of inflationary gravitational waves. Journal of Physics: Conference Series, 2010, 259, 012086.	0.4	0
103	CONSTRAINTS ON THE DARK ENERGY EQUATION OF STATE IN PRESENCE OF A VARYING FINE STRUCTURE CONSTANT. International Journal of Modern Physics D, 2010, 19, 507-512.	2.1	6
104	Discriminating the source of high-energy positrons with AMS-02. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 020-020.	5.4	30
105	A possible signature of cosmic neutrino decoupling in the nHz region of the spectrum of primordial gravitational waves. Classical and Quantum Gravity, 2010, 27, 194008.	4.0	9
106	Inflation with primordial broken power law spectrum as an alternative to the concordance cosmological model. Physical Review D, 2010, 81, .	4.7	1
107	Impact of general reionization scenarios on extraction of inflationary parameters. Physical Review D, 2010, 82, .	4.7	14
108	A solution of the strong<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math>problem via the Peccei-Quinn mechanism through the Nieh-Yan modified gravity and cosmological implications. Physical Review D, 2010, 81, .	4.7	17

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109	Signatures of clumpy dark matter in the global 21Âcm background signal. Physical Review D, 2010, 82, .	4.7	25
110	The majoron: a new dark matter candidate. Journal of the Korean Physical Society, 2010, 56, 1677-1685.	0.7	0
111	Mass Varying Neutrinos: a model-independent approach. Nuclear Physics, Section B, Proceedings Supplements, 2009, 188, 40-42.	0.4	0
112	Constraining the dark matter annihilation cross-section with Cherenkov telescope observations of dwarf galaxies. Monthly Notices of the Royal Astronomical Society, 2009, 399, 2033-2040.	4.4	24
113	The Impact of Halo Substructure on Dark Matter Signatures. Nuclear Physics, Section B, Proceedings Supplements, 2009, 194, 162-165.	0.4	0
114	Can the WIMP annihilation boost factor be boosted by the Sommerfeld enhancement?. Physical Review D, 2009, 79, .	4.7	140
115	Model independent constraints on mass-varying neutrino scenarios. Physical Review D, 2009, 80, .	4.7	18
116	ON THE COUPLING BETWEEN SPINNING PARTICLES AND COSMOLOGICAL GRAVITATIONAL WAVES. International Journal of Modern Physics A, 2008, 23, 1278-1281.	1.5	2
117	Decaying majoron dark matter and neutrino masses. AIP Conference Proceedings, 2008, , .	0.4	12
118	X-ray photons from late-decaying majoron dark matter. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 013.	5.4	60
119	CONSTRAINING THE COSMOLOGICAL LEPTON ASYMMETRY THROUGH COSMIC MICROWAVE BACKGROUND OBSERVATIONS. , 2008, , .		0
120	Decaying Warm Dark Matter and Neutrino Masses. Physical Review Letters, 2007, 99, 121301.	7.8	94
121	Do WMAP data constraint the lepton asymmetry of the Universe to be zero?. AIP Conference Proceedings, 2006, , .	0.4	0
122	ON THE INTERACTION BETWEEN THERMALIZED NEUTRINOS AND COSMOLOGICAL GRAVITATIONAL WAVES ABOVE THE ELECTROWEAK UNIFICATION SCALE. Modern Physics Letters A, 2005, 20, 2607-2618.	1.2	8
123	Joint constraints on the lepton asymmetry of the Universe and neutrino mass from the Wilkinson Microwave Anisotropy Probe. Physical Review D, 2005, 72, .	4.7	21
124	On the possible role of massive neutrinos in cosmological structure formation. AIP Conference Proceedings, 2003, , .	0.4	1