Julien Lesgourgues

List of Publications by Year
in descending order

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34 papers	4,184 citations	201674 27 h-index	377865 34 g-index
34 all docs	34 docs citations	34 times ranked	2314 citing authors

#	Article	IF	Citations
1	Massive neutrinos and cosmology. Physics Reports, 2006, 429, 307-379.	25.6	796
2	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
3	Lyman-Î± constraints on warm and on warm-plus-cold dark matter models. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 012-012.	5.4	325
4	MontePython 3: Boosted MCMC sampler and other features. Physics of the Dark Universe, 2019, 24, 100260.	4.9	315
5	The Cosmic Linear Anisotropy Solving System (CLASS) IV: efficient implementation of non-cold relics. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 032-032.	5.4	220
6	Neutrino masses and cosmology with Lyman-alpha forest power spectrum. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 011-011.	5.4	211
7	Probing cosmological parameters with the CMB: forecasts from Monte Carlo simulations. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 013-013.	5.4	186
8	A fresh look at linear cosmological constraints on a decaying Dark Matter component. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 036-036.	5.4	146
9	Neutrino Mass from Cosmology. Advances in High Energy Physics, 2012, 2012, 1-34.	1.1	145
10	Hints, neutrino bounds, and WDM constraints from SDSS DR14 Lyman-Î± and Planck full-survey data. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 038-038.	5.4	144
11	Neutrino masses and cosmological parameters from a Euclid-like survey: Markov Chain Monte Carlo forecasts including theoretical errors. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 026-026.	5.4	119
12	Interacting dark sector and precision cosmology. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 008-008.	5.4	114
13	Cosmological parameters from large scale structure - geometric versus shape information. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 022-022.	5.4	111
14	Neutrino cosmology and Planck. New Journal of Physics, 2014, 16, 065002.	2.9	110
15	Constraint on neutrino masses from SDSS-III/BOSS LyÎ± forest and other cosmological probes. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 045-045.	5.4	100
16	The promising future of a robust cosmological neutrino mass measurement. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 059-059.	5.4	91
17	Non-linear power spectrum including massive neutrinos: the time-RG flow approach. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 017-017.	5.4	83
18	Using the CMB angular power spectrum to study Dark Matter-photon interactions. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 026-026.	5.4	79

#	Article	IF	Citations
19	Using big bang nucleosynthesis in cosmological parameter extraction from the cosmic microwave background: a forecast for PLANCK. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 004.	5.4	78
20	Cosmology in the era of Euclid and the Square Kilometre Array. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 047-047.	5.4	68
21	Bias due to neutrinos must not uncorrect'd go. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 001-001.	5.4	65
22	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
23	Updated tomographic analysis of the integrated Sachs-Wolfe effect and implications for dark energy. Physical Review D, 2018, 97, .	4.7	52
24	<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 or <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>T</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:math> tension?. Physical Review D, 2020, 102, .	4.7	44
25	Cosmological constraints on a light nonthermal sterile neutrino. Physical Review D, 2009, 79, .	4.7	36
26	What will it take to measure individual neutrino mass states using cosmology?. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 021-021.	5.4	33
27	Constraints on dark radiation from cosmological probes. Physical Review D, 2015, 92, .	4.7	31
28	Constraining neutrino masses with the integrated-Sachs-Wolfe-galaxy correlation function. Physical Review D, 2008, 77, .	4.7	18
29	Model independent constraints on mass-varying neutrino scenarios. Physical Review D, 2009, 80, .	4.7	18
30	Including massive neutrinos in thermal Sunyaev Zeldovich power spectrum and cluster counts analyses. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1332-1347.	4.4	18
31	Microwave spectro-polarimetry of matter and radiation across space and time. Experimental Astronomy, 2021, 51, 1471-1514.	3.7	15
32	Gravitation and the Universe from large scale-structures. Experimental Astronomy, 2021, 51, 1623-1640.	3.7	5
33	Galaxies weigh in on neutrinos. Physics Magazine, 2010, 3, .	0.1	4
34	Lensing anomalies from the epoch of reionisation. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 042-042.	5.4	2