Gianpiero Mangano

List of Publications by Year
in descending order

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39 papers	4,179 citations	257450 24 h-index	377865 34 g-index
39 all docs	39 docs citations	39 times ranked	2394 citing authors

#	Article	IF	Citations
1	Hilbert space representation of the minimal length uncertainty relation. Physical Review D, 1995, 52, 1108-1118.	4.7	1,451
2	Relic neutrino decoupling including flavour oscillations. Nuclear Physics B, 2005, 729, 221-234.	2.5	597
3	Primordial nucleosynthesis: From precision cosmology to fundamental physics. Physics Reports, 2009, 472, 1-76.	25.6	371
4	Minimal length uncertainty relation and ultraviolet regularization. Physical Review D, 1997, 55, 7909-7920.	4.7	341
5	A robust upper limit on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mi>N</mml:mi><mml:mi mathvariant="normal">eff</mml:mi></mml:msub></mml:math> from BBN, circa 2011. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 296-299.	4.1	148
6	Cosmological perturbations and short distance physics from Noncommutative Geometry. Journal of High Energy Physics, 2002, 2002, 049-049.	4.7	122
7	Cosmological bounds on dark-matter-neutrino interactions. Physical Review D, 2006, 74, .	4.7	101
8	Probing low energy neutrino backgrounds with neutrino capture on beta decaying nuclei. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 015-015.	5.4	95
9	Updated BBN bounds on the cosmological lepton asymmetry for non-zero <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mi>Î¸</mml:mi><mml:mn>13</mml:mn></mml:msub></mml:math>. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 1-5.	4.1	79
10	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
11	Constraints on neutrino-dark matter interactions from cosmic microwave background and large scale structure data. Physical Review D, 2010, 81, .	4.7	70
12	The strongest bounds on active-sterile neutrino mixing after Planck data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 8-14.	4.1	67
13	Effects of non-standard neutrinoâ€“electron interactions on relic neutrino decoupling. Nuclear Physics B, 2006, 756, 100-116.	2.5	56
14	Collisional production of sterile neutrinos via secret interactions and cosmological implications. Physical Review D, 2015, 91, .	4.7	53
15	Constraining the cosmic radiation density due to lepton number with Big Bang Nucleosynthesis. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 035-035.	5.4	52
16	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
17	Multimomentum and multiflavor active-sterile neutrino oscillations in the early universe: Role of neutrino asymmetries and effects on nucleosynthesis. Physical Review D, 2013, 87, .	4.7	48
18	The standard and degenerate primordial nucleosynthesis versus recent experimental data. Journal of High Energy Physics, 2000, 2000, 038-038.	4.7	44

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19	Unveiling secret interactions among sterile neutrinos with big-bang nucleosynthesis. Physical Review D, 2014, 90, .	4.7	43
20	Probing nuclear rates with Planck and BICEP2. Physical Review D, 2014, 90, .	4.7	39
21	Evolution and Nucleosynthesis of Primordial Lowâ€Mass Stars. Astrophysical Journal, 2004, 609, 1035-1044.	4.5	31
22	Do observations prove that cosmological neutrinos are thermally distributed?. Physical Review D, 2005, 71, .	4.7	31
23	Diffuse cosmic neutrino background from population III stars. Astroparticle Physics, 2005, 23, 303-312.	4.3	29
24	Varying couplings in the early universe: Correlated variations of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>G</mml:mi></mml:math>. Physical Review D, 2010, 82, .	4.7	26
25	Low energy antineutrino detection using neutrino capture on electron capture decaying nuclei. Physical Review D, 2009, 79, .	4.7	22
26	Inconstant Planckâ€™s constant. International Journal of Modern Physics A, 2015, 30, 1550209.	1.5	21
27	ANOTHER ALTERNATIVE TO COMPACTIFICATION: NONCOMMUTATIVE GEOMETRY AND RANDALLâ€“SUNDRUM MODELS. Modern Physics Letters A, 2001, 16, 1-8.	1.2	19
28	Future constraints on neutrino isocurvature perturbations in the curvaton scenario. Physical Review D, 2012, 85, .	4.7	18
29	Spacetime noncommutativity and antisymmetric tensor dynamics in the early Universe. Physical Review D, 2003, 68, .	4.7	17
30	Path integral approach to noncommutative spaceâ€“times. Journal of Mathematical Physics, 1998, 39, 2584-2591.	1.1	16
31	RADIATIVE CORRECTIONS TO NEUTRINO ENERGY LOSS RATE IN STELLAR INTERIORS. Modern Physics Letters A, 2002, 17, 491-502.	1.2	15
32	Optimal uncertainty relations in a modified Heisenberg algebra. Physical Review D, 2016, 94, .	4.7	13
33	Shadows of trans-Planckian physics on cosmology and the role of the zero-point energy density. Physical Review D, 2010, 82, .	4.7	8
34	SPACETIME SYMMETRY RESTORATION IN COSMOLOGICAL MODELS WITH KALBâ€“RAMOND AND SCALAR FIELDS. Modern Physics Letters A, 2005, 20, 605-612.	1.2	6
35	CP violation in the minimal standard model: K and B meson decays. Nuclear Physics, Section B, Proceedings Supplements, 1992, 27, 58-69.	0.4	0
36	A MASS SPECTRUM FOR LEPTONS AND QUARKS. Modern Physics Letters A, 1993, 08, 1519-1526.	1.2	0

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37	Constraining the cosmic radiation density due to lepton number. Nuclear Physics, Section B, Proceedings Supplements, 2013, 237-238, 253-255.	0.4	0
38	Precision cosmology and neutrino properties. Nuclear and Particle Physics Proceedings, 2015, 265-266, 13-18.	0.5	0
39	Primordial nucleosynthesis in the precision era for cosmology. , 2003, , .		0