

Gianpiero Mangano

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

4,179
citations

257450

24
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377865

34
g-index

39
all docs

39
docs citations

39
times ranked

2394
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Optimal uncertainty relations in a modified Heisenberg algebra. Physical Review D, 2016, 94, . | 4.7 | 13 |
| 2 | Inconstant Planck's constant. International Journal of Modern Physics A, 2015, 30, 1550209. | 1.5 | 21 |
| 3 | Collisional production of sterile neutrinos via secret interactions and cosmological implications. Physical Review D, 2015, 91, . | 4.7 | 53 |
| 4 | Precision cosmology and neutrino properties. Nuclear and Particle Physics Proceedings, 2015, 265-266, 13-18. | 0.5 | 0 |
| 5 | Unveiling secret interactions among sterile neutrinos with big-bang nucleosynthesis. Physical Review D, 2014, 90, . | 4.7 | 43 |
| 6 | Probing nuclear rates with Planck and BICEP2. Physical Review D, 2014, 90, . | 4.7 | 39 |
| 7 | Constraining the cosmic radiation density due to lepton number. Nuclear Physics, Section B, Proceedings Supplements, 2013, 237-238, 253-255. | 0.4 | 0 |
| 8 | 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 |
| 9 | 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 |
| 10 | Future constraints on neutrino isocurvature perturbations in the curvaton scenario. Physical Review D, 2012, 85, . | 4.7 | 18 |
| 11 | Cosmological lepton asymmetry with a nonzero mixing angle $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \hat{l} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 13 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle .$ Physical Review D, 2012, 86, . | 4.7 | 52 |
| 12 | Updated BBN bounds on the cosmological lepton asymmetry for non-zero $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"} \langle \text{mml:msub} \langle \text{mml:mi} \rangle \hat{l} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 13 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle .$ Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 1-5. | 4.1 | 79 |
| 13 | A robust upper limit on $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"} \langle \text{mml:msub} \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{eff} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ from BBN, circa 2011. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 296-299. | 4.1 | 148 |
| 14 | 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 |
| 15 | Constraints on neutrino-dark matter interactions from cosmic microwave background and large scale structure data. Physical Review D, 2010, 81, . | 4.7 | 70 |
| 16 | Shadows of trans-Planckian physics on cosmology and the role of the zero-point energy density. Physical Review D, 2010, 82, . | 4.7 | 8 |
| 17 | Varying couplings in the early universe: Correlated variations of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \hat{l} \pm \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle G \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle .$ Physical Review D, 2010, 82, . | 4.7 | 26 |
| 18 | Primordial nucleosynthesis: From precision cosmology to fundamental physics. Physics Reports, 2009, 472, 1-76. | 25.6 | 371 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Low energy antineutrino detection using neutrino capture on electron capture decaying nuclei. Physical Review D, 2009, 79, . | 4.7 | 22 |
| 20 | 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 |
| 21 | 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 |
| 22 | Cosmological bounds on dark-matter-neutrino interactions. Physical Review D, 2006, 74, . | 4.7 | 101 |
| 23 | Effects of non-standard neutrino-electron interactions on relic neutrino decoupling. Nuclear Physics B, 2006, 756, 100-116. | 2.5 | 56 |
| 24 | Diffuse cosmic neutrino background from population III stars. Astroparticle Physics, 2005, 23, 303-312. | 4.3 | 29 |
| 25 | SPACETIME SYMMETRY RESTORATION IN COSMOLOGICAL MODELS WITH KALB-RAMOND AND SCALAR FIELDS. Modern Physics Letters A, 2005, 20, 605-612. | 1.2 | 6 |
| 26 | Do observations prove that cosmological neutrinos are thermally distributed?. Physical Review D, 2005, 71, . | 4.7 | 31 |
| 27 | Relic neutrino decoupling including flavour oscillations. Nuclear Physics B, 2005, 729, 221-234. | 2.5 | 597 |
| 28 | Evolution and Nucleosynthesis of Primordial Low-Mass Stars. Astrophysical Journal, 2004, 609, 1035-1044. | 4.5 | 31 |
| 29 | Spacetime noncommutativity and antisymmetric tensor dynamics in the early Universe. Physical Review D, 2003, 68, . | 4.7 | 17 |
| 30 | Primordial nucleosynthesis in the precision era for cosmology. , 2003, , . | | 0 |
| 31 | RADIATIVE CORRECTIONS TO NEUTRINO ENERGY LOSS RATE IN STELLAR INTERIORS. Modern Physics Letters A, 2002, 17, 491-502. | 1.2 | 15 |
| 32 | Cosmological perturbations and short distance physics from Noncommutative Geometry. Journal of High Energy Physics, 2002, 2002, 049-049. | 4.7 | 122 |
| 33 | ANOTHER ALTERNATIVE TO COMPACTIFICATION: NONCOMMUTATIVE GEOMETRY AND RANDALL-SUNDRUM MODELS. Modern Physics Letters A, 2001, 16, 1-8. | 1.2 | 19 |
| 34 | The standard and degenerate primordial nucleosynthesis versus recent experimental data. Journal of High Energy Physics, 2000, 2000, 038-038. | 4.7 | 44 |
| 35 | Path integral approach to noncommutative space-times. Journal of Mathematical Physics, 1998, 39, 2584-2591. | 1.1 | 16 |
| 36 | Minimal length uncertainty relation and ultraviolet regularization. Physical Review D, 1997, 55, 7909-7920. | 4.7 | 341 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Hilbert space representation of the minimal length uncertainty relation. Physical Review D, 1995, 52, 1108-1118. | 4.7 | 1,451 |
| 38 | A MASS SPECTRUM FOR LEPTONS AND QUARKS. Modern Physics Letters A, 1993, 08, 1519-1526. | 1.2 | 0 |
| 39 | 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 |