# 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 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A13. | 5.1 | 8,344 |
| 2 | Planck2013 results. XVI. Cosmological parameters. Astronomy and Astrophysics, 2014, 571, A16. | 5.1 | 4,703 |
| 3 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A20. | 5.1 | 1,233 |
| 4 | Planck2013 results. I. Overview of products and scientific results. Astronomy and Astrophysics, 2014, 571, A1. | 5.1 | 948 |
| 5 | Joint Analysis of BICEP2/Keck ArrayandPlanckData. Physical Review Letters, 2015, 114, 101301. | 7.8 | 819 |
| 6 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A1. | 5.1 | 738 |
| 7 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A11. | 5.1 | 613 |
| 8 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A14. | 5.1 | 568 |
| 9 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A27. | 5.1 | 535 |
| 10 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A24. | 5.1 | 525 |
| 11 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A17. | 5.1 | 440 |
| 12 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A10. | 5.1 | 384 |
| 13 | Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A108. | 5.1 | 375 |
| 14 | Planck2013 results. XV. CMB power spectra and likelihood. Astronomy and Astrophysics, 2014, 571, A15. | 5.1 | 364 |
| 15 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A15. | 5.1 | 360 |
| 16 | Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A107. | 5.1 | 359 |
| 17 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A16. | 5.1 | 338 |
| 18 | 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 |

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|---|---|---|---|
| 19 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A22. | 5.1 | 274 |
| 20 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A19. | 5.1 | 273 |
| 21 | Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A138. | 5.1 | 270 |
| 22 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A8. | 5.1 | 209 |
| 23 | Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A109. | 5.1 | 185 |
| 24 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A9. | 5.1 | 182 |
| 25 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A26. | 5.1 | 182 |
| 26 | Bounds on very low reheating scenarios after Planck. Physical Review D, 2015, 92, . | 4.7 | 181 |
| 27 | Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A133. | 5.1 | 173 |
| 28 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A25. | 5.1 | 153 |
| 29 | Can the WIMP annihilation boost factor be boosted by the Sommerfeld enhancement?. Physical Review D, 2009, 79, . | 4.7 | 140 |
| 30 | PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 006-006. | 5.4 | 138 |
| 31 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A28. | 5.1 | 134 |
| 32 | Planck intermediate results. Astronomy and Astrophysics, 2017, 607, A95. | 5.1 | 131 |
| 33 | Planck intermediate results. Astronomy and Astrophysics, 2020, 643, A42. | 5.1 | 123 |
| 34 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A12. | 5.1 | 117 |
| 35 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A21. | 5.1 | 114 |
| 36 | Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A132. | 5.1 | 109 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A135. | 5.1 | 109 |
| 38 | Status of Neutrino Properties and Future Prospectsâ€”Cosmological and Astrophysical Constraints. Frontiers in Physics, 2018, 5, . | 2.1 | 102 |
| 39 | Decaying Warm Dark Matter and Neutrino Masses. Physical Review Letters, 2007, 99, 121301. | 7.8 | 94 |
| 40 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A7. | 5.1 | 94 |
| 41 | Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A140. | 5.1 | 89 |
| 42 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A23. | 5.1 | 89 |
| 43 | Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A103. | 5.1 | 89 |
| 44 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A2. | 5.1 | 79 |
| 45 | 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 |
| 46 | Relic neutrinos, thermal axions, and cosmology in early 2014. Physical Review D, 2014, 90, . | 4.7 | 74 |
| 47 | Planck2013 results. II. Low Frequency Instrument data processing. Astronomy and Astrophysics, 2014, 571, A2. | 5.1 | 74 |
| 48 | Impact of neutrino properties on the estimation of inflationary parameters from current and future observations. Physical Review D, 2017, 95, . | 4.7 | 70 |
| 49 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A18. | 5.1 | 69 |
| 50 | Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A110. | 5.1 | 64 |
| 51 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A6. | 5.1 | 62 |
| 52 | X-ray photons from late-decaying majoron dark matter. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 013. | 5.4 | 60 |
| 53 | Planckintermediate results. Astronomy and Astrophysics, 2015, 582, A31. | 5.1 | 59 |
| 54 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A4. | 5.1 | 56 |

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|---|---|---|---|
| 55 | Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A141. | 5.1 | 55 |
| 56 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A5. | 5.1 | 55 |
| 57 | Planck2015 results. Astronomy and Astrophysics, 2016, 594, A3. | 5.1 | 53 |
| 58 | 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 |
| 59 | Cosmological constraints on neutrino self-interactions with a light mediator. Physical Review D, 2019, 100, . | 4.7 | 51 |
| 60 | Revisiting cosmological bounds on sterile neutrinos. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 006-006. | 5.4 | 50 |
| 61 | 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 |
| 62 | Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A105. | 5.1 | 47 |
| 63 | Planckintermediate results. XXVI. Optical identification and redshifts ofPlanckclusters with the RTT150 telescope. Astronomy and Astrophysics, 2015, 582, A29. | 5.1 | 46 |
| 64 | Constraints on secret neutrino interactions after Planck. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 014-014. | 5.4 | 46 |
| 65 | Planck intermediate results. Astronomy and Astrophysics, 2017, 599, A51. | 5.1 | 46 |
| 66 | Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A100. | 5.1 | 44 |
| 67 | Cosmic microwave background constraints on secret interactions among sterile neutrinos. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 038-038. | 5.4 | 43 |
| 68 | Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A104. | 5.1 | 36 |
| 69 | 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 |
| 70 | Connecting neutrino physics with dark matter. New Journal of Physics, 2014, 16, 125012. | 2.9 | 34 |
| 71 | Planckintermediate results. Astronomy and Astrophysics, 2015, 582, A28. | 5.1 | 33 |
| 72 | Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A139. | 5.1 | 32 |

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|---|---|---|---|
| 73 | Bounds on light sterile neutrino mass and mixing from cosmology and laboratory searches. Physical Review D, 2021, 104, . | 4.7 | 32 |
| 74 | Discriminating the source of high-energy positrons with AMS-02. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 020-020. | 5.4 | 30 |
| 75 | Planckintermediate results. Astronomy and Astrophysics, 2016, 586, A137. | 5.1 | 27 |
| 76 | The evens and odds of CMB anomalies. Physics of the Dark Universe, 2018, 20, 49-64. | 4.9 | 27 |
| 77 | Signatures of clumpy dark matter in the global 21Âcm background signal. Physical Review D, 2010, 82, . | 4.7 | 25 |
| 78 | 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 |
| 79 | Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A102. | 5.1 | 25 |
| 80 | 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 |
| 81 | Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A101. | 5.1 | 24 |
| 82 | Planckintermediate results. Astronomy and Astrophysics, 2017, 607, A122. | 5.1 | 24 |
| 83 | Planckintermediate results. Astronomy and Astrophysics, 2016, 596, A106. | 5.1 | 23 |
| 84 | Axion cold dark matter: Status after Planck and BICEP2. Physical Review D, 2014, 90, . | 4.7 | 22 |
| 85 | 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 |
| 86 | <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 |
| 87 | Planck intermediate results. Astronomy and Astrophysics, 2020, 644, A100. | 5.1 | 20 |
| 88 | Model independent constraints on mass-varying neutrino scenarios. Physical Review D, 2009, 80, . | 4.7 | 18 |
| 89 | Future constraints on neutrino isocurvature perturbations in the curvaton scenario. Physical Review D, 2012, 85, . | 4.7 | 18 |
| 90 | 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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| 91 | Featuring the primordial power spectrum: New constraints on interrupted slow-roll from CMB and LRG data. Physical Review D, 2013, 87, . | 4.7 | 16 |
| 92 | 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 |
| 93 | Impact of general reionization scenarios on extraction of inflationary parameters. Physical Review D, 2010, 82, . | 4.7 | 14 |
| 94 | 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 |
| 95 | Breaking Be: a sterile neutrino solution to the cosmological lithium problem. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 022-022. | 5.4 | 14 |
| 96 | Decaying majoron dark matter and neutrino masses. AIP Conference Proceedings, 2008, , . | 0.4 | 12 |
| 97 | Likelihood Methods for CMB Experiments. Frontiers in Physics, 2020, 8, . | 2.1 | 12 |
| 98 | Thermal axions with multi-eV masses are possible in low-reheating scenarios. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 031. | 5.4 | 12 |
| 99 | Decaying warm dark matter and structure formation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 026-026. | 5.4 | 11 |
| 100 | Signatures of the neutrino thermal history in the spectrum of primordial gravitational waves. General Relativity and Gravitation, 2011, 43, 945-958. | 2.0 | 10 |
| 101 | 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 |
| 102 | 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 |
| 103 | Cosmological data and indications for new physics. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 030-030. | 5.4 | 8 |
| 104 | Cosmological implications of a viable non-analytical f(R) model. European Physical Journal Plus, 2013, 128, 1. | 2.6 | 7 |
| 105 | A separable solution for the oscillatory structure of plasma in accretion disks. Europhysics Letters, 2010, 89, 39001. | 2.0 | 6 |
| 106 | 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 |
| 107 | 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 |
| 108 | Planck 2015constraints on neutrino physics. Journal of Physics: Conference Series, 2016, 718, 032008. | 0.4 | 6 |

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| 109 | Stability of a self-gravitating homogeneous resistive plasma. Physica D: Nonlinear Phenomena, 2012, 241, 721-728. | 2.8 | 5 |
| 110 | Cornering (quasi) degenerate neutrinos with cosmology. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 4 |
| 111 | Planck intermediate results. Astronomy and Astrophysics, 2020, 644, A99. | 5.1 | 4 |
| 112 | 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 |
| 113 | ON THE COUPLING BETWEEN SPINNING PARTICLES AND COSMOLOGICAL GRAVITATIONAL WAVES. International Journal of Modern Physics A, 2008, 23, 1278-1281. | 1.5 | 2 |
| 114 | On the possible role of massive neutrinos in cosmological structure formation. AIP Conference Proceedings, 2003, , . | 0.4 | 1 |
| 115 | Inflation with primordial broken power law spectrum as an alternative to the concordance cosmological model. Physical Review D, 2010, 81, . | 4.7 | 1 |
| 116 | On the Viability of a Non-Analytical f (R)-Theory. Springer Proceedings in Physics, 2011, , 227-236. | 0.2 | 1 |
| 117 | Do WMAP data constraint the lepton asymmetry of the Universe to be zero?. AIP Conference Proceedings, 2006, , . | 0.4 | 0 |
| 118 | Mass Varying Neutrinos: a model-independent approach. Nuclear Physics, Section B, Proceedings Supplements, 2009, 188, 40-42. | 0.4 | 0 |
| 119 | The Impact of Halo Substructure on Dark Matter Signatures. Nuclear Physics, Section B, Proceedings Supplements, 2009, 194, 162-165. | 0.4 | 0 |
| 120 | Imprint of cosmic neutrino decoupling in the spectrum of inflationary gravitational waves. Journal of Physics: Conference Series, 2010, 259, 012086. | 0.4 | 0 |
| 121 | Absolute neutrino mass scale: session summary. Nuclear and Particle Physics Proceedings, 2015, 265-266, 333-338. | 0.5 | 0 |
| 122 | CONSTRAINING THE COSMOLOGICAL LEPTON ASYMMETRY THROUGH COSMIC MICROWAVE BACKGROUND OBSERVATIONS. , 2008, , . | | 0 |
| 123 | The majoron: a new dark matter candidate. Journal of the Korean Physical Society, 2010, 56, 1677-1685. | 0.7 | 0 |
| 124 | ENHANCEMENT OF THE DARK MATTER ANNIHILATION CROSS SECTION IN COLD SUBSTRUCTURES. , 2012, , . | | 0 |