

AdriÀ GÃ³mez-Valent

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

2,489
citations

236925

25
h-index

477307

29
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29
all docs

29
docs citations

29
times ranked

826
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. <i>Journal of High Energy Astrophysics</i> , 2022, 34, 49-211. | 6.7 | 350 |
| 2 | Snowmass2021 - Letter of interest cosmology intertwined II: The hubble constant tension. <i>Astroparticle Physics</i> , 2021, 131, 102605. | 4.3 | 228 |
| 3 | Cosmology intertwined III: $\int f^{-1} f^{-8} S$ and $\int f^{-3} S$. <i>Astroparticle Physics</i> , 2021, 131, 102604. | 4.3 | 182 |
| 4 | H_0 from cosmic chronometers and Type Ia supernovae, with Gaussian Processes and the novel Weighted Polynomial Regression method. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 051-051. | 5.4 | 177 |
| 5 | First Evidence of Running Cosmic Vacuum: Challenging the Concordance Model. <i>Astrophysical Journal</i> , 2017, 836, 43. | 4.5 | 146 |
| 6 | The H_0 tension in light of vacuum dynamics in the universe. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 774, 317-324. | 4.1 | 120 |
| 7 | HINTS OF DYNAMICAL VACUUM ENERGY IN THE EXPANDING UNIVERSE. <i>Astrophysical Journal Letters</i> , 2015, 811, L14. | 8.3 | 110 |
| 8 | Dynamical vacuum energy in the expanding Universe confronted with observations: a dedicated study. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 004-004. | 5.4 | 108 |
| 9 | Possible signals of vacuum dynamics in the Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 4357-4373. | 4.4 | 100 |
| 10 | Update on coupled dark energy and the H_0 tension. <i>Physical Review D</i> , 2020, 101, . | 4.7 | 95 |
| 11 | Brans-Dicke Gravity with a Cosmological Constant Smooths Out Λ CDM Tensions. <i>Astrophysical Journal Letters</i> , 2019, 886, L6. | 8.3 | 91 |
| 12 | The Λ CDM cosmology: From inflation to dark energy through running $\hat{\Lambda}$. <i>International Journal of Modern Physics D</i> , 2015, 24, 1541003. | 2.1 | 81 |
| 13 | Dynamical dark energy vs. $\hat{\Lambda} = \text{const}$ in light of observations. <i>Europhysics Letters</i> , 2018, 121, 39001. | 2.0 | 73 |
| 14 | Density perturbations for running vacuum: a successful approach to structure formation and to the $\int f^{-8}$ -tension. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 126-145. | 4.4 | 72 |
| 15 | Dynamical dark energy: Scalar fields and running vacuum. <i>Modern Physics Letters A</i> , 2017, 32, 1750054. | 1.2 | 66 |
| 16 | Vacuum models with a linear and a quadratic term in H : structure formation and number counts analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 2810-2821. | 4.4 | 64 |
| 17 | Signs of dynamical dark energy in current observations. <i>Physics of the Dark Universe</i> , 2019, 25, 100311. | 4.9 | 57 |
| 18 | Relaxing the $\int f^{-8}$ -tension through running vacuum in the Universe. <i>Europhysics Letters</i> , 2017, 120, 39001. | 2.0 | 56 |

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|----|---|-----|-----------|
| 19 | Brans-Dicke cosmology with a $\hat{\nu}$ -term: a possible solution to $\hat{\nu}$ CDM tensions*. Classical and Quantum Gravity, 2020, 37, 245003. | 4.0 | 54 |
| 20 | Running vacuum against the H_0 and $f\sigma_8$ tensions. Europhysics Letters, 2021, 134, 19001. | 2.0 | 52 |
| 21 | Background history and cosmic perturbations for a general system of self-conserved dynamical dark energy and matter. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 048-048. | 5.4 | 40 |
| 22 | Snowmass2021 - Letter of interest cosmology intertwined IV: The age of the universe and its curvature. Astroparticle Physics, 2021, 131, 102607. | 4.3 | 39 |
| 23 | Snowmass2021 - Letter of interest cosmology intertwined I: Perspectives for the next decade. Astroparticle Physics, 2021, 131, 102606. | 4.3 | 37 |
| 24 | Quantifying the evidence for the current speed-up of the Universe with low and intermediate-redshift data. A more model-independent approach. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 026-026. | 5.4 | 27 |
| 25 | Early dark energy in the pre- and postrecombination epochs. Physical Review D, 2021, 104, . | 4.7 | 25 |
| 26 | Vacuum dynamics in the Universe versus a rigid $\hat{\nu}=\text{const.}$. International Journal of Modern Physics A, 2017, 32, 1730014. | 1.5 | 20 |
| 27 | Measuring the sound horizon and absolute magnitude of SNIa by maximizing the consistency between low-redshift data sets. Physical Review D, 2022, 105, . | 4.7 | 12 |
| 28 | Difficulties in reconciling non-negligible differences between the local and cosmological values of the gravitational coupling in extended Brans-Dicke theories. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 040. | 5.4 | 5 |
| 29 | Boosting Monte Carlo sampling with a non-Gaussian fit. Monthly Notices of the Royal Astronomical Society, 2020, 498, 181-193. | 4.4 | 2 |