

Ivan Agullo

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,772
citations

279798

23
h-index

265206

42
g-index

58
all docs

58
docs citations

58
times ranked

753
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The pre-inflationary dynamics of loop quantum cosmology: confronting quantum gravity with observations. <i>Classical and Quantum Gravity</i> , 2013, 30, 085014. | 4.0 | 194 |
| 2 | Quantum Gravity Extension of the Inflationary Scenario. <i>Physical Review Letters</i> , 2012, 109, 251301. | 7.8 | 177 |
| 3 | Extension of the quantum theory of cosmological perturbations to the Planck era. <i>Physical Review D</i> , 2013, 87, . | 4.7 | 158 |
| 4 | Non-Gaussianities and the stimulated creation of quanta in the inflationary universe. <i>Physical Review D</i> , 2011, 83, . | 4.7 | 126 |
| 5 | Black Hole State Counting in Loop Quantum Gravity: A Number-Theoretical Approach. <i>Physical Review Letters</i> , 2008, 100, 211301. | 7.8 | 93 |
| 6 | Detailed analysis of the predictions of loop quantum cosmology for the primordial power spectra. <i>Physical Review D</i> , 2015, 92, . | 4.7 | 74 |
| 7 | Detailed black hole state counting in loop quantum gravity. <i>Physical Review D</i> , 2010, 82, . | 4.7 | 68 |
| 8 | Loop quantum cosmology, non-Gaussianity, and CMB power asymmetry. <i>Physical Review D</i> , 2015, 92, . | 4.7 | 52 |
| 9 | Potential Gravitational Wave Signatures of Quantum Gravity. <i>Physical Review Letters</i> , 2021, 126, 041302. | 7.8 | 51 |
| 10 | Revising the Predictions of Inflation for the Cosmic Microwave Background Anisotropies. <i>Physical Review Letters</i> , 2009, 103, 061301. | 7.8 | 47 |
| 11 | Combinatorics of the $SU(2)$ black hole entropy in loop quantum gravity. <i>Physical Review D</i> , 2009, 80, . | 4.7 | 46 |
| 12 | Preferred instantaneous vacuum for linear scalar fields in cosmological space-times. <i>Physical Review D</i> , 2015, 91, . | 4.7 | 46 |
| 13 | Large non-Gaussian halo bias from single field inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 007-007. | 5.4 | 43 |
| 14 | Loop Quantum Cosmology. <i>International Journal of Population Studies</i> , 2017, , 183-240. | 0.1 | 39 |
| 15 | Revising the observable consequences of slow-roll inflation. <i>Physical Review D</i> , 2010, 81, . | 4.7 | 35 |
| 16 | Primordial power spectrum from the Daporâ€“Liegener model of loop quantum cosmology. <i>General Relativity and Gravitation</i> , 2018, 50, 1. | 2.0 | 31 |
| 17 | Reexamination of the Power Spectrum in De Sitter Inflation. <i>Physical Review Letters</i> , 2008, 101, 171301. | 7.8 | 30 |
| 18 | Stimulated creation of quanta during inflation and the observable universe. <i>General Relativity and Gravitation</i> , 2011, 43, 2541-2545. | 2.0 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Electromagnetic Duality Anomaly in Curved Spacetimes. <i>Physical Review Letters</i> , 2017, 118, 111301. | 7.8 | 29 |
| 20 | Non-Gaussianity in loop quantum cosmology. <i>Physical Review D</i> , 2018, 97, . | 4.7 | 28 |
| 21 | Unitarity and ultraviolet regularity in cosmology. <i>Physical Review D</i> , 2015, 91, . | 4.7 | 27 |
| 22 | Phenomenology with fluctuating quantum geometries in loop quantum cosmology. <i>Classical and Quantum Gravity</i> , 2017, 34, 074003. | 4.0 | 26 |
| 23 | Large scale anomalies in the CMB and non-Gaussianity in bouncing cosmologies. <i>Classical and Quantum Gravity</i> , 2021, 38, 065010. | 4.0 | 23 |
| 24 | Hawking Radiation by Kerr Black Holes and Conformal Symmetry. <i>Physical Review Letters</i> , 2010, 105, 211305. | 7.8 | 22 |
| 25 | Black hole state degeneracy in loop quantum gravity. <i>Physical Review D</i> , 2008, 77, . | 4.7 | 19 |
| 26 | Remarks on the renormalization of primordial cosmological perturbations. <i>Physical Review D</i> , 2011, 84, . | 4.7 | 18 |
| 27 | Two-point functions with an invariant Planck scale and thermal effects. <i>Physical Review D</i> , 2008, 77, . | 4.7 | 17 |
| 28 | Inflation, quantum fields, and CMB anisotropies. <i>General Relativity and Gravitation</i> , 2009, 41, 2301-2306. | 2.0 | 15 |
| 29 | Black Hole Radiance, Short Distances, and TeV Gravity. <i>Physical Review Letters</i> , 2006, 97, 041302. | 7.8 | 14 |
| 30 | Enhanced local-type inflationary trispectrum from a non-vacuum initial state. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 019-019. | 5.4 | 14 |
| 31 | Classical and quantum aspects of electric-magnetic duality rotations in curved spacetimes. <i>Physical Review D</i> , 2018, 98, . | 4.7 | 14 |
| 32 | Anomalies in the CMB from a cosmic bounce. <i>General Relativity and Gravitation</i> , 2021, 53, 1. | 2.0 | 14 |
| 33 | Observational consequences of Bianchi I spacetimes in loop quantum cosmology. <i>Physical Review D</i> , 2020, 102, . | 4.7 | 12 |
| 34 | Anomalies in the Cosmic Microwave Background and Their Non-Gaussian Origin in Loop Quantum Cosmology. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, . | 2.8 | 12 |
| 35 | Insensitivity of Hawking radiation to an invariant Planck-scale cutoff. <i>Physical Review D</i> , 2009, 80, . | 4.7 | 11 |
| 36 | Hamiltonian theory of classical and quantum gauge invariant perturbations in Bianchi I spacetimes. <i>Physical Review D</i> , 2020, 101, . | 4.7 | 11 |

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|----|--|-----|-----------|
| 37 | Electric-magnetic duality and renormalization in curved spacetimes. Physical Review D, 2014, 90, . | 4.7 | 10 |
| 38 | Predictions for the Cosmic Microwave Background from an Anisotropic Quantum Bounce. Physical Review Letters, 2020, 124, 251301. | 7.8 | 10 |
| 39 | Acceleration radiation and the Planck scale. Physical Review D, 2008, 77, . | 4.7 | 9 |
| 40 | Computing black hole entropy in loop quantum gravity from a conformal field theory perspective. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 016-016. | 5.4 | 9 |
| 41 | Gravity and handedness of photons. International Journal of Modern Physics D, 2017, 26, 1742001. | 2.1 | 9 |
| 42 | Quantum Aspects of Stimulated Hawking Radiation in an Optical Analog White-Black Hole Pair. Physical Review Letters, 2022, 128, 091301. | 7.8 | 9 |
| 43 | On the Electric-Magnetic Duality Symmetry: Quantum Anomaly, Optical Helicity, and Particle Creation. Symmetry, 2018, 10, 763. | 2.2 | 8 |
| 44 | Acceleration radiation, transition probabilities and trans-Planckian physics. New Journal of Physics, 2010, 12, 095017. | 2.9 | 7 |
| 45 | Spontaneous Creation of Circularly Polarized Photons in Chiral Astrophysical Systems. Physical Review Letters, 2020, 124, 211301. | 7.8 | 7 |
| 46 | INFLATION, QUANTUM FIELDS, AND CMB ANISOTROPIES. International Journal of Modern Physics D, 2009, 18, 2329-2335. | 2.1 | 4 |
| 47 | xAct Implementation of the Theory of Cosmological Perturbation in Bianchi I Spacetimes. Mathematics, 2020, 8, 290. | 2.2 | 4 |
| 48 | STIMULATED CREATION OF QUANTA DURING INFLATION AND THE OBSERVABLE UNIVERSE. International Journal of Modern Physics D, 2011, 20, 2861-2866. | 2.1 | 3 |
| 49 | Black hole entropy in loop quantum gravity. Journal of Physics: Conference Series, 2012, 360, 012035. | 0.4 | 3 |
| 50 | THE ROLE OF THE PLANCK SCALE IN BLACK HOLE RADIANCE. International Journal of Modern Physics D, 2008, 17, 489-494. | 2.1 | 1 |
| 51 | Reply to "Comment on "Insensitivity of Hawking radiation to an invariant Planck-scale cutoff"â€™. Physical Review D, 2010, 81, . | 4.7 | 1 |
| 52 | Absorption spectroscopy of quantum black holes with gravitational waves. International Journal of Modern Physics D, 0, , 2142013. | 2.1 | 1 |
| 53 | HAWKING RADIATION IN THE PRESENCE OF AN INVARIANT PLANCK-SCALE CUTOFF. , 2012, , . | | 0 |
| 54 | A QUANTUM GRAVITY EXTENSION OF THE INFLATIONARY PARADIGM. , 2015, , . | | 0 |

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|----|---|----|-----------|
| 55 | SHORT DISTANCES, BLACK HOLES, AND TeV GRAVITY. , 2008, , . | | 0 |
| 56 | INFLATION, QUANTUM FIELD RENORMALIZATION, AND CMB ANISOTROPIES. , 2012, , . | | 0 |
| 57 | Computation of non-Gaussianity in loop quantum cosmology. , 2022, , . | | 0 |