

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

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58
all docs

58
docs citations

58
times ranked

753
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Aspects of Stimulated Hawking Radiation in an Optical Analog White-Black Hole Pair. <i>Physical Review Letters</i> , 2022, 128, 091301.	7.8	9
2	Computation of non-Gaussianity in loop quantum cosmology. , 2022, , .		0
3	Large scale anomalies in the CMB and non-Gaussianity in bouncing cosmologies. <i>Classical and Quantum Gravity</i> , 2021, 38, 065010.	4.0	23
4	Anomalies in the CMB from a cosmic bounce. <i>General Relativity and Gravitation</i> , 2021, 53, 1.	2.0	14
5	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
6	Potential Gravitational Wave Signatures of Quantum Gravity. <i>Physical Review Letters</i> , 2021, 126, 041302.	7.8	51
7	Observational consequences of Bianchi I spacetimes in loop quantum cosmology. <i>Physical Review D</i> , 2020, 102, .	4.7	12
8	Spontaneous Creation of Circularly Polarized Photons in Chiral Astrophysical Systems. <i>Physical Review Letters</i> , 2020, 124, 211301.	7.8	7
9	Predictions for the Cosmic Microwave Background from an Anisotropic Quantum Bounce. <i>Physical Review Letters</i> , 2020, 124, 251301.	7.8	10
10	xAct Implementation of the Theory of Cosmological Perturbation in Bianchi I Spacetimes. <i>Mathematics</i> , 2020, 8, 290.	2.2	4
11	Hamiltonian theory of classical and quantum gauge invariant perturbations in Bianchi I spacetimes. <i>Physical Review D</i> , 2020, 101, .	4.7	11
12	On the Electric-Magnetic Duality Symmetry: Quantum Anomaly, Optical Helicity, and Particle Creation. <i>Symmetry</i> , 2018, 10, 763.	2.2	8
13	Classical and quantum aspects of electric-magnetic duality rotations in curved spacetimes. <i>Physical Review D</i> , 2018, 98, .	4.7	14
14	Non-Gaussianity in loop quantum cosmology. <i>Physical Review D</i> , 2018, 97, .	4.7	28
15	Primordial power spectrum from the Daporâ€“Liegener model of loop quantum cosmology. <i>General Relativity and Gravitation</i> , 2018, 50, 1.	2.0	31
16	Loop Quantum Cosmology. <i>International Journal of Population Studies</i> , 2017, , 183-240.	0.1	39
17	Phenomenology with fluctuating quantum geometries in loop quantum cosmology. <i>Classical and Quantum Gravity</i> , 2017, 34, 074003.	4.0	26
18	Electromagnetic Duality Anomaly in Curved Spacetimes. <i>Physical Review Letters</i> , 2017, 118, 111301.	7.8	29

#	ARTICLE	IF	CITATIONS
19	Gravity and handedness of photons. International Journal of Modern Physics D, 2017, 26, 1742001.	2.1	9
20	Unitarity and ultraviolet regularity in cosmology. Physical Review D, 2015, 91, .	4.7	27
21	Detailed analysis of the predictions of loop quantum cosmology for the primordial power spectra. Physical Review D, 2015, 92, .	4.7	74
22	Loop quantum cosmology, non-Gaussianity, and CMB power asymmetry. Physical Review D, 2015, 92, .	4.7	52
23	A QUANTUM GRAVITY EXTENSION OF THE INFLATIONARY PARADIGM. , 2015, , .		0
24	Preferred instantaneous vacuum for linear scalar fields in cosmological space-times. Physical Review D, 2015, 91, .	4.7	46
25	Electric-magnetic duality and renormalization in curved spacetimes. Physical Review D, 2014, 90, .	4.7	10
26	Extension of the quantum theory of cosmological perturbations to the Planck era. Physical Review D, 2013, 87, .	4.7	158
27	The pre-inflationary dynamics of loop quantum cosmology: confronting quantum gravity with observations. Classical and Quantum Gravity, 2013, 30, 085014.	4.0	194
28	Large non-Gaussian halo bias from single field inflation. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 007-007.	5.4	43
29	Black hole entropy in loop quantum gravity. Journal of Physics: Conference Series, 2012, 360, 012035.	0.4	3
30	Enhanced local-type inflationary trispectrum from a non-vacuum initial state. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 019-019.	5.4	14
31	HAWKING RADIATION IN THE PRESENCE OF AN INVARIANT PLANCK-SCALE CUTOFF. , 2012, , .		0
32	Quantum Gravity Extension of the Inflationary Scenario. Physical Review Letters, 2012, 109, 251301.	7.8	177
33	INFLATION, QUANTUM FIELD RENORMALIZATION, AND CMB ANISOTROPIES. , 2012, , .		0
34	Stimulated creation of quanta during inflation and the observable universe. General Relativity and Gravitation, 2011, 43, 2541-2545.	2.0	30
35	Non-Gaussianities and the stimulated creation of quanta in the inflationary universe. Physical Review D, 2011, 83, .	4.7	126
36	Remarks on the renormalization of primordial cosmological perturbations. Physical Review D, 2011, 84, .	4.7	18

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37	STIMULATED CREATION OF QUANTA DURING INFLATION AND THE OBSERVABLE UNIVERSE. International Journal of Modern Physics D, 2011, 20, 2861-2866.	2.1	3
38	Hawking Radiation by Kerr Black Holes and Conformal Symmetry. Physical Review Letters, 2010, 105, 211305.	7.8	22
39	Acceleration radiation, transition probabilities and trans-Planckian physics. New Journal of Physics, 2010, 12, 095017.	2.9	7
40	Revising the observable consequences of slow-roll inflation. Physical Review D, 2010, 81, .	4.7	35
41	Reply to "Comment on "Insensitivity of Hawking radiation to an invariant Planck-scale cutoff"â€™ "â€œ. Physical Review D, 2010, 81, .	4.7	1
42	Detailed black hole state counting in loop quantum gravity. Physical Review D, 2010, 82, .	4.7	68
43	INFLATION, QUANTUM FIELDS, AND CMB ANISOTROPIES. International Journal of Modern Physics D, 2009, 18, 2329-2335.	2.1	4
44	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
45	Inflation, quantum fields, and CMB anisotropies. General Relativity and Gravitation, 2009, 41, 2301-2306.	2.0	15
46	Combinatorics of the SU(2) black hole entropy in loop quantum gravity. Physical Review D, 2009, 80, .	4.7	46
47	Insensitivity of Hawking radiation to an invariant Planck-scale cutoff. Physical Review D, 2009, 80, .	4.7	11
48	Revising the Predictions of Inflation for the Cosmic Microwave Background Anisotropies. Physical Review Letters, 2009, 103, 061301.	7.8	47
49	Reexamination of the Power Spectrum in De Sitter Inflation. Physical Review Letters, 2008, 101, 171301.	7.8	30
50	Black hole state degeneracy in loop quantum gravity. Physical Review D, 2008, 77, .	4.7	19
51	Acceleration radiation and the Planck scale. Physical Review D, 2008, 77, .	4.7	9
52	Two-point functions with an invariant Planck scale and thermal effects. Physical Review D, 2008, 77, .	4.7	17
53	THE ROLE OF THE PLANCK SCALE IN BLACK HOLE RADIANCE. International Journal of Modern Physics D, 2008, 17, 489-494.	2.1	1
54	Black Hole State Counting in Loop Quantum Gravity: A Number-Theoretical Approach. Physical Review Letters, 2008, 100, 211301.	7.8	93

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55	SHORT DISTANCES, BLACK HOLES, AND TeV GRAVITY. , 2008, , .		0
56	Black Hole Radiance, Short Distances, and TeV Gravity. Physical Review Letters, 2006, 97, 041302.	7.8	14
57	Absorption spectroscopy of quantum black holes with gravitational waves. International Journal of Modern Physics D, 0, , 2142013.	2.1	1