

Javier Olmedo

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,483
citations

361413

20
h-index

315739

38
g-index

52
all docs

52
docs citations

52
times ranked

292
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Transfiguration of Kruskal Black Holes. <i>Physical Review Letters</i> , 2018, 121, 241301.	7.8	148
2	Quantum extension of the Kruskal spacetime. <i>Physical Review D</i> , 2018, 98, .	4.7	129
3	Hybrid quantization of an inflationary universe. <i>Physical Review D</i> , 2012, 86, .	4.7	103
4	From black holes to white holes: a quantum gravitational, symmetric bounce. <i>Classical and Quantum Gravity</i> , 2017, 34, 225011.	4.0	92
5	Further improvements in the understanding of isotropic loop quantum cosmology. <i>Physical Review D</i> , 2009, 80, .	4.7	83
6	Quantum black holes in loop quantum gravity. <i>Classical and Quantum Gravity</i> , 2014, 31, 095009.	4.0	76
7	Spherically symmetric loop quantum gravity: analysis of improved dynamics. <i>Classical and Quantum Gravity</i> , 2020, 37, 205012.	4.0	67
8	Hybrid quantization of an inflationary model: The flat case. <i>Physical Review D</i> , 2013, 88, .	4.7	64
9	Cosmological perturbations in hybrid loop quantum cosmology: Mukhanov-Sasaki variables. <i>Physical Review D</i> , 2014, 90, .	4.7	64
10	Primordial power spectra for scalar perturbations in loop quantum cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 029-029.	5.4	57
11	Prescriptions in loop quantum cosmology: A comparative analysis. <i>Physical Review D</i> , 2011, 84, .	4.7	49
12	Hybrid loop quantum cosmology and predictions for the cosmic microwave background. <i>Physical Review D</i> , 2017, 96, .	4.7	46
13	Unique Fock quantization of scalar cosmological perturbations. <i>Physical Review D</i> , 2012, 85, .	4.7	44
14	Properties of a recent quantum extension of the Kruskal geometry. <i>International Journal of Modern Physics D</i> , 2020, 29, 2050076.	2.1	43
15	A uniqueness criterion for the Fock quantization of scalar fields with time-dependent mass. <i>Classical and Quantum Gravity</i> , 2011, 28, 172001.	4.0	41
16	Criteria for the determination of time dependent scalings in the Fock quantization of scalar fields with a time dependent mass in ultrastatic spacetimes. <i>Physical Review D</i> , 2012, 86, .	4.7	38
17	Primordial tensor modes of the early Universe. <i>Physical Review D</i> , 2016, 93, .	4.7	35
18	Effective dynamics of scalar perturbations in a flat Friedmann-Robertson-Walker spacetime in loop quantum cosmology. <i>Physical Review D</i> , 2014, 89, .	4.7	34

#	ARTICLE	IF	CITATIONS
19	Uniqueness of the Fock quantization of fields with unitary dynamics in nonstationary spacetimes. <i>Physical Review D</i> , 2011, 83, .	4.7	28
20	Quantum self-gravitating collapsing matter in a quantum geometry. <i>Classical and Quantum Gravity</i> , 2016, 33, 18LT01.	4.0	28
21	Loop Quantum Black Hole Extensions Within the Improved Dynamics. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	20
22	A unique Fock quantization for fields in non-stationary spacetimes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 030-030.	5.4	19
23	Primordial scalar power spectrum from the hybrid approach in loop cosmologies. <i>Physical Review D</i> , 2020, 102, .	4.7	19
24	Brief Review on Black Hole Loop Quantization. <i>Universe</i> , 2016, 2, 12.	2.5	17
25	States of low energy in bouncing inflationary scenarios in loop quantum cosmology. <i>Physical Review D</i> , 2021, 103, .	4.7	15
26	Loop quantization of the Gowdy model with local rotational symmetry. <i>Physical Review D</i> , 2017, 96, .	4.7	12
27	Power spectrum of primordial perturbations for an emergent universe in quantum reduced loop gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 030-030.	5.4	12
28	Observational consequences of Bianchi I spacetimes in loop quantum cosmology. <i>Physical Review D</i> , 2020, 102, .	4.7	12
29	Callan-Giddings-Harvey-Strominger vacuum in loop quantum gravity and singularity resolution. <i>Physical Review D</i> , 2016, 94, .	4.7	11
30	Hamiltonian theory of classical and quantum gauge invariant perturbations in Bianchi I spacetimes. <i>Physical Review D</i> , 2020, 101, .	4.7	11
31	Predictions for the Cosmic Microwave Background from an Anisotropic Quantum Bounce. <i>Physical Review Letters</i> , 2020, 124, 251301.	7.8	10
32	Breaking of isospectrality of quasinormal modes in nonrotating loop quantum gravity black holes. <i>Physical Review D</i> , 2022, 105, .	4.7	10
33	Uniqueness of the Fock quantization of scalar fields in a Bianchi I cosmology with unitary dynamics. <i>Physical Review D</i> , 2016, 94, .	4.7	8
34	Non-Oscillatory Power Spectrum From States of Low Energy in Kinetically Dominated Early Universes. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	7
35	Towards a quantum notion of covariance in spherically symmetric loop quantum gravity. <i>Physical Review D</i> , 2022, 105, .	4.7	7
36	Classical axisymmetric gravity in real Ashtekar variables. <i>Classical and Quantum Gravity</i> , 2019, 36, 125009.	4.0	6

#	ARTICLE	IF	CITATIONS
37	Casimir effect in a quantum space-time. Classical and Quantum Gravity, 2015, 32, 115002.	4.0	4
38	xAct Implementation of the Theory of Cosmological Perturbation in Bianchi I Spacetimes. Mathematics, 2020, 8, 290.	2.2	4
39	Schrödinger-like quantum dynamics in loop quantized black holes. International Journal of Modern Physics D, 2016, 25, 1642006.	2.1	3
40	Evolution in totally constrained models: Schrödinger vs. Heisenberg pictures. International Journal of Modern Physics D, 2016, 25, 1642004.	2.1	3
41	Further improvements in the understanding of LQC. Journal of Physics: Conference Series, 2011, 314, 012048.	0.4	1
42	A complete hybrid quantization in inhomogeneous cosmology. , 2012, , .		1
43	Loop Quantum Cosmological Perturbations. Journal of Physics: Conference Series, 2014, 490, 012152.	0.4	1
44	Reply to "Comment on "Towards a quantum notion of covariance in spherically symmetric loop quantum gravity"™. Physical Review D, 2022, 105, .	4.7	1
45	Loops 11: Non-Perturbative / Background Independent Quantum Gravity. Journal of Physics: Conference Series, 2012, 360, 011001.	0.4	0
46	Inflation and inhomogeneities: a hybrid quantization. Journal of Physics: Conference Series, 2012, 360, 012033.	0.4	0
47	The $SL(2, \mathbb{R})$ totally constrained model: three quantization approaches. General Relativity and Gravitation, 2014, 46, 1.	2.0	0
48	Inflation from inhomogeneous polarized Gowdy model. Classical and Quantum Gravity, 2022, 39, 015001.	4.0	0
49	Complete Quantization of Scalar Cosmological Perturbations. Springer Proceedings in Mathematics and Statistics, 2014, , 261-265.	0.2	0
50	UNITARY EVOLUTION AS A UNIQUENESS CRITERION. , 2015, , .		0
51	HYBRID QUANTIZATION OF AN INHOMOGENEOUS INFLATIONARY SCENARIO. , 2015, , .		0
52	Local rotational symmetry Gowdy model in loop quantum gravity. , 2017, , .		0