Alejandro Perez

List of Publications by Year in descending order

75 papers	3,418 citations	147801 31 h-index	138484 58 g-index
75 all docs	75 docs citations	75 times ranked	1058 citing authors

#	Article	IF	Citations
1	Resolving the H_0 tension with diffusion. General Relativity and Gravitation, 2021, 53, 1.	2.0	28
2	Black holes, Planckian granularity, and the changing cosmological 'constant'. General Relativity and Gravitation, 2021, 53, 1.	2.0	3
3	Unitarity and Information in Quantum Gravity: A Simple Example. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	11
4	Spherically symmetric black holes and affine-null metric formulation of Einstein's equations. Physical Review D, 2021, 104, .	4.7	1
5	Dark Energy from Quantum Gravity Discreteness. Physical Review Letters, 2019, 122, 221302.	7.8	33
6	Light cone black holes. Physical Review D, 2019, 99, .	4.7	4
7	Light cone thermodynamics. Physical Review D, 2018, 97, .	4.7	16
8	Quantum Gravity at the Corner. Universe, 2018, 4, 107.	2.5	29
9	A microscopic model for an emergent cosmological constant. International Journal of Modern Physics D, 2018, 27, 1846002.	2.1	26
10	Dark Energy from Violation of Energy Conservation. Physical Review Letters, 2017, 118, 021102.	7.8	141
11	Loop gravity string. Physical Review D, 2017, 95, .	4.7	46
12	Black holes in loop quantum gravity. Reports on Progress in Physics, 2017, 80, 126901.	20.1	81
13	Improved black hole fireworks: Asymmetric black-hole-to-white-hole tunneling scenario. Physical Review D, 2016, 93, .	4.7	36
14	Analytic continuation of the rotating black hole state counting. Journal of High Energy Physics, 2016, 2016, 1.	4.7	18
15	Black holes as gases of punctures with a chemical potential: Bose-Einstein condensation and logarithmic corrections to the entropy. Physical Review D, 2015, 91, .	4.7	16
16	Black hole spectroscopy from loop quantum gravity models. Physical Review D, 2015, 92, .	4.7	16
17	No firewalls in quantum gravity: the role of discreteness of quantum geometry in resolving the information loss paradox. Classical and Quantum Gravity, 2015, 32, 084001.	4.0	32
18	Statistics, holography, and black hole entropy in loop quantum gravity. Physical Review D, 2014, 89, .	4.7	42

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19	Statistical and entanglement entropy for black holes in quantum geometry. Physical Review D, 2014, 90, .	4.7	10
20	Modelling black holes with angular momentum in loop quantum gravity. General Relativity and Gravitation, 2014, 46, 1.	2.0	21
21	Black-hole entropy from complex Ashtekar variables. Europhysics Letters, 2014, 107, 10005.	2.0	54
22	Statistical entropy of a BTZ black hole from loop quantum gravity. Journal of High Energy Physics, 2013, 2013, 1.	4.7	27
23	Quasilocal first law for black hole thermodynamics. Physical Review D, 2013, 87, .	4.7	36
24	Smooth null hypersurfaces near the horizon in the presence of tails. Physical Review D, 2013, 87, .	4.7	2
25	The Spin-Foam Approach to Quantum Gravity. Living Reviews in Relativity, 2013, 16, 3.	26.7	424
26	Black hole entropy in LQG: Recent developments. , 2012, , .		2
27	Regular isolated black holes. , 2012, , .		0
28	THE <i>SU</i>(2) INVARIANT PRESYMPLECTIC STRUCTURE OF SPHERICAL ISOLATED HORIZONS. , 2012, , .		1
29	Invited review: The new spin foam models and quantum gravity. Papers in Physics, 2012, 4, .	0.2	6
30	Black Hole Entropy and Isolated Horizons Thermodynamics. Physical Review Letters, 2011, 107, 241301.	7.8	97
31	Canonical quantization of non-commutative holonomies in 2‰+‰1 loop quantum gravity. Journal of High Energy Physics, 2011, 2011, 1.	4.7	43
32	The SU(2) black hole entropy revisited. Journal of High Energy Physics, 2011, 2011, 1.	4.7	67
33	CHARACTERIZING SMOOTH ISOLATED BLACK HOLES. International Journal of Modern Physics D, 2011, 20, 757-766.	2.1	4
34	ON THE SYMMETRY OF THE VACUUM IN THEORIES WITH "SPONTANEOUS SYMMETRY BREAKING". International Journal of Modern Physics A, 2011, 26, 1493-1544.	1.5	7
35	Static Isolated Horizons: SU(2) Invariant Phase Space, Quantization, and Black Hole Entropy. Entropy, 2011, 13, 744-777.	2.2	37
36	Spin foam quantization and anomalies. General Relativity and Gravitation, 2010, 42, 877-907.	2.0	31

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37	On the regularization of the constraint algebra of quantum gravity in 2 + 1 dimensions with a nonvanishing cosmological constant. Classical and Quantum Gravity, 2010, 27, 145009.	4.0	39
38	Black hole entropy from the $SU(2)$ ...	4.7	18
39	Topological limit of gravity admitting an $SU(2)$ ...	4.7	17
40	Black Hole Entropy and $SU(2)$ ... 031302.	7.8	54
41	Loop Quantum Gravity: an introduction. , 2009, , .		2
42	Cosmological Plebanski theory. General Relativity and Gravitation, 2009, 41, 2597-2618.	2.0	1
43	Four-dimensional Lorentzian Holst action with topological terms. Physical Review D, 2009, 79, .	4.7	42
44	Quantization of the Jackiw-Teitelboim model. Physical Review D, 2009, 79, .	4.7	16
45	Î̧parameter in loop quantum gravity: Effects on quantum geometry and black hole entropy. Physical Review D, 2008, 78, .	4.7	7
46	Two-dimensional topological field theories coupled to four-dimensional BF theory. Physical Review D, 2008, 77, .	4.7	9
47	Extended matter coupled to BF theory. Physical Review D, 2008, 78, .	4.7	17
48	Multiple-event probability in general-relativistic quantum mechanics. II. A discrete model. Physical Review D, 2007, 76, .	4.7	4
49	Multiple-event probability in general-relativistic quantum mechanics. Physical Review D, 2007, 75, .	4.7	16
50	Quantization of strings and branes coupled to BF theory. Advances in Theoretical and Mathematical Physics, 2007, 11, 451-469.	0.6	13
51	Physical effects of the Immirzi parameter in loop quantum gravity. Physical Review D, 2006, 73, .	4.7	144
52	On the quantum origin of the seeds of cosmic structure. Classical and Quantum Gravity, 2006, 23, 2317-2354.	4.0	131
53	Loop quantum gravity. Europhysics News, 2006, 37, 17-21.	0.3	3
54	Regularization ambiguities in loop quantum gravity. Physical Review D, 2006, 73, .	4.7	74

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55	Radiative effects and dimension 5 operators arising from quantum gravity. General Relativity and Gravitation, 2005, 37, 813-816.	2.0	0
56	Three-dimensional loop quantum gravity: physical scalar product and spin-foam models. Classical and Quantum Gravity, 2005, 22, 1739-1761.	4.0	130
57	Three-dimensional loop quantum gravity: coupling to point particles. Classical and Quantum Gravity, 2005, 22, 4489-4513.	4.0	49
58	On the physical Hilbert space of loop quantum cosmology. Physical Review D, 2005, 71, .	4.7	33
59	Lorentz Invariance and Quantum Gravity: An Additional Fine-Tuning Problem?. Physical Review Letters, 2004, 93, 191301.	7.8	241
60	OBSERVABILITY AND GEOMETRY IN THREE DIMENSIONAL QUANTUM GRAVITY. , 2004, , .		1
61	DYNAMICS OF LOOP QUANTUM GRAVITY AND SPIN FOAM MODELS IN THREE DIMENSIONS. , 2004, , .		2
62	Comment on â€œUltraviolet Modifications of Dispersion Relations in Effective Field Theoryâ€. Physical Review Letters, 2003, 91, 179101.	7.8	18
63	Spin foam models for quantum gravity. Classical and Quantum Gravity, 2003, 20, R43-R104.	4.0	383
64	2D manifold-independent spinfoam theory. Classical and Quantum Gravity, 2003, 20, 4425-4445.	4.0	13
65	Energy and angular momentum radiated for non-head-on binary black hole collisions. Physical Review D, 2002, 66, .	4.7	5
66	Spin foam diagrammatics and topological invariance. Classical and Quantum Gravity, 2002, 19, 1093-1108.	4.0	20
67	Perturbative Finiteness in Spin-Foam Quantum Gravity. Physical Review Letters, 2001, 87, .	7.8	50
68	Finiteness of a spinfoam model for Euclidean quantum general relativity. Nuclear Physics B, 2001, 599, 427-434.	2.5	51
69	A spin foam model without bubble divergences. Nuclear Physics B, 2001, 599, 255-282.	2.5	74
70	Perturbations with angular momentum of Robinson-Trautman spacetimes. Classical and Quantum Gravity, 2001, 18, 3701-3719.	4.0	2
71	Spin foam model for Lorentzian general relativity. Physical Review D, 2001, 63, .	4.7	64
72	(3+1)-dimensional spin foam model of quantum gravity with spacelike and timelike components. Physical Review D, 2001, 64, .	4.7	28

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73	Comparative studies of lensing methods. Physical Review D, 2000, 62, .	4.7	6
74	Iterative approach to gravitational lensing theory. Physical Review D, 2000, 61, .	4.7	11
75	Characteristic surface data for the eikonal equation. Journal of Mathematical Physics, 1999, 40, 1093-1102.	1.1	2