

Eduardo Jâ€s VillaseÃ±or

List of Publications by Year in descending order

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71
papers

783
citations

516710

16
h-index

580821

25
g-index

71
all docs

71
docs citations

71
times ranked

323
citing authors

#	ARTICLE	IF	CITATIONS
1	Black Hole State Counting in Loop Quantum Gravity: A Number-Theoretical Approach. <i>Physical Review Letters</i> , 2008, 100, 211301.	7.8	93
2	Detailed black hole state counting in loop quantum gravity. <i>Physical Review D</i> , 2010, 82, .	4.7	68
3	Combinatorics of the $SU(2)$ black hole entropy in loop quantum gravity. <i>Physical Review D</i> , 2009, 80, .	4.7	46
4	The time-dependent quantum harmonic oscillator revisited: Applications to quantum field theory. <i>Annals of Physics</i> , 2009, 324, 1360-1385.	2.8	30
5	Flux-area operator and black hole entropy. <i>Physical Review D</i> , 2009, 80, .	4.7	29
6	Adiabatic expansions for Dirac fields, renormalization, and anomalies. <i>Physical Review D</i> , 2018, 98, .	4.7	29
7	Generating functions for black hole entropy in loop quantum gravity. <i>Physical Review D</i> , 2008, 77, .	4.7	27
8	On the computation of black hole entropy in loop quantum gravity. <i>Classical and Quantum Gravity</i> , 2009, 26, 035017.	4.0	27
9	Microcausality and quantum cylindrical gravitational waves. <i>Physical Review D</i> , 2003, 67, .	4.7	24
10	Geometric formulation of the covariant phase space methods with boundaries. <i>Physical Review D</i> , 2021, 103, .	4.7	24
11	Quantum unitary evolution of linearly polarized $S^1 \times S^2$ and S^3 Gowdy models coupled to massless scalar fields. <i>Classical and Quantum Gravity</i> , 2008, 25, 085002.	4.0	22
12	Quantization of Midisuperspace Models. <i>Living Reviews in Relativity</i> , 2010, 13, 6.	26.7	19
13	Bivariate generating functions for a class of linear recurrences: General structure. <i>Journal of Combinatorial Theory - Series A</i> , 2014, 125, 146-165.	0.8	19
14	Lorentz violations and Euclidean signature metrics. <i>Physical Review D</i> , 2003, 68, .	4.7	18
15	Statistical description of the black hole degeneracy spectrum. <i>Physical Review D</i> , 2011, 83, .	4.7	18
16	Hamiltonian treatment of linear field theories in the presence of boundaries: a geometric approach. <i>Classical and Quantum Gravity</i> , 2014, 31, 045021.	4.0	18
17	Band structure in the polymer quantization of the harmonic oscillator. <i>Classical and Quantum Gravity</i> , 2013, 30, 165011.	4.0	16
18	Dirac's algorithm in the presence of boundaries: a practical guide to a geometric approach. <i>Classical and Quantum Gravity</i> , 2019, 36, 205014.	4.0	16

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19	Evolution operators for linearly polarized two-Killing cosmological models. <i>Physical Review D</i> , 2006, 74, .	4.7	13
20	Hamiltonian dynamics of linearly polarized Gowdy models coupled to massless scalar fields. <i>Classical and Quantum Gravity</i> , 2007, 24, 5945-5972.	4.0	13
21	Separable Hilbert space for loop quantization. <i>Physical Review D</i> , 2014, 90, .	4.7	13
22	The thermodynamic limit and black hole entropy in the area ensemble. <i>Classical and Quantum Gravity</i> , 2011, 28, 215014.	4.0	11
23	Topology of the Misner space and its g -boundary. <i>General Relativity and Gravitation</i> , 2014, 46, 1.	2.0	11
24	Quantization of scalar fields coupled to point masses. <i>Classical and Quantum Gravity</i> , 2015, 32, 245009.	4.0	10
25	Concise symplectic formulation for tetrad gravity. <i>Physical Review D</i> , 2021, 103, .	4.7	10
26	Higher derivative fermionic field theories. <i>Journal of Physics A</i> , 2002, 35, 6169-6182.	1.6	9
27	Time uncertainty in quantum gravitational systems. <i>Physical Review D</i> , 2004, 69, .	4.7	9
28	Gauge fixing in higher-derivative gravity. <i>Classical and Quantum Gravity</i> , 1999, 16, 2283-2298.	4.0	8
29	BFactions for the Husain-Kuchař™ model. <i>Physical Review D</i> , 2001, 63, .	4.7	8
30	Boundary Hilbert spaces and trace operators. <i>Classical and Quantum Gravity</i> , 2017, 34, 095005.	4.0	8
31	Generalizations of the Pontryagin and Husain-Kuchař™ actions to manifolds with boundary. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	8
32	Higher-derivative boson field theories and constrained second-order theories. <i>Journal of Physics A</i> , 2001, 34, 8919-8940.	1.6	7
33	Asymptotic analysis of field commutators for Einstein-Rosen gravitational waves. <i>Journal of Mathematical Physics</i> , 2004, 45, 3498-3532.	1.1	7
34	Exact Quantization of Einstein-Rosen Waves Coupled to Massless Scalar Matter. <i>Physical Review Letters</i> , 2005, 95, 051301.	7.8	7
35	Hamiltonian description of the parametrized scalar field in bounded spatial regions. <i>Classical and Quantum Gravity</i> , 2016, 33, 105002.	4.0	7
36	Hamiltonian Gotay-Nester-Hinds analysis of the parametrized unimodular extension of the Holst action. <i>Physical Review D</i> , 2021, 103, .	4.7	7

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37	Covariant phase space for gravity with boundaries: Metric versus tetrad formulations. <i>Physical Review D</i> , 2021, 104, .	4.7	7
38	Unitary evolution of free massless fields in de Sitter spacetime. <i>Classical and Quantum Gravity</i> , 2008, 25, 145008.	4.0	6
39	Palatini gravity with nonmetricity, torsion, and boundaries in metric and connection variables. <i>Physical Review D</i> , 2021, 104, .	4.7	6
40	In search of local degrees of freedom in quadratic diff-invariant Lagrangians. <i>Physical Review D</i> , 2000, 61, .	4.7	5
41	Quadratic s-form field actions with semi-bounded energy. <i>Nuclear Physics B</i> , 2001, 600, 423-449.	2.5	4
42	QUANTUM CYLINDRICAL WAVES AND SIGMA MODELS. <i>International Journal of Modern Physics D</i> , 2004, 13, 1119-1127.	2.1	4
43	Probing quantized Einstein-Rosen waves with massless scalar matter. <i>Physical Review D</i> , 2006, 74, .	4.7	4
44	Hamiltonian dynamics of the parametrized electromagnetic field. <i>Classical and Quantum Gravity</i> , 2016, 33, 125030.	4.0	4
45	On the distribution of the eigenvalues of the area operator in loop quantum gravity. <i>Classical and Quantum Gravity</i> , 2018, 35, 065008.	4.0	4
46	Particles and vacuum for perturbative and nonperturbative Einstein-Rosen gravity. <i>Physical Review D</i> , 2004, 70, .	4.7	3
47	Asymptotics of regulated field commutators for Einstein-Rosen waves. <i>Journal of Mathematical Physics</i> , 2005, 46, 062306.	1.1	3
48	Quantum Einstein-Rosen waves: coherent states and n -point functions. <i>Classical and Quantum Gravity</i> , 2008, 25, 205013.	4.0	3
49	Black hole entropy in loop quantum gravity. <i>Journal of Physics: Conference Series</i> , 2012, 360, 012035.	0.4	3
50	On-shell equivalence of general relativity and Holst theories with nonmetricity, torsion, and boundaries. <i>Physical Review D</i> , 2022, 105, .	4.7	3
51	Consistent and non-consistent deformations of gravitational theories. <i>Journal of High Energy Physics</i> , 2022, 2022, .	4.7	3
52	On the asymptotics of the rescaled Appell polynomials. <i>Advances in Applied Mathematics</i> , 2020, 113, 101962.	0.7	2
53	Quantum isolated horizons and black hole entropy. , 2013, , .		2
54	Proof of the equivalence of the symplectic forms derived from the canonical and the covariant phase space formalisms. <i>Physical Review D</i> , 2022, 105, .	4.7	2

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55	Diff-invariant kinetic terms in arbitrary dimensions. <i>Physical Review D</i> , 2002, 65, .	4.7	1
56	Classical and quantum behavior of dynamical systems defined by functions of solvable Hamiltonians. <i>American Journal of Physics</i> , 2008, 76, 153-157.	0.7	1
57	Introduction to Quantum Mechanics. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	1
58	Gauge invariance in simple mechanical systems. <i>European Journal of Physics</i> , 2015, 36, 055005.	0.6	1
59	Three Roads to the Geometric Constraint Formulation of Gravitational Theories with Boundaries. <i>Symmetry</i> , 2021, 13, 1430.	2.2	1
60	A two-sided Faulhaber-like formula involving Bernoulli polynomials. <i>Comptes Rendus Mathematique</i> , 2020, 358, 41-44.	0.3	1
61	Kinetic terms for 2-forms in four dimensions. <i>Physical Review D</i> , 2002, 66, .	4.7	0
62	Coupling Einstein-Rosen Waves to Matter: The Massless Scalar Field Case. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
63	Quantization of linearly polarized cosmological models with two Killing vector fields. <i>Journal of Physics: Conference Series</i> , 2007, 66, 012035.	0.4	0
64	Semiclassical states for a symmetry reduced gravitational system. , 2009, , .		0
65	Functional description of Λ - and Gowdy cosmologies. <i>Journal of Physics: Conference Series</i> , 2009, 175, 012010.	0.4	0
66	Loops 11: Non-Perturbative / Background Independent Quantum Gravity. <i>Journal of Physics: Conference Series</i> , 2012, 360, 011001.	0.4	0
67	THE THERMODYNAMIC LIMIT FOR BLACK HOLES IN LOOP QUANTUM GRAVITY. , 2015, , .		0
68	Functional evolution of scalar fields in bounded one-dimensional regions. <i>Classical and Quantum Gravity</i> , 2017, 34, 065004.	4.0	0
69	EINSTEIN-ROSEN WAVES COUPLED TO MATTER. , 2008, , .		0
70	GENERATING FUNCTIONS FOR BLACK HOLES IN LOOP QUANTUM GRAVITY. , 2012, , .		0
71	FLUX-AREA OPERATOR AND BLACK HOLE ENTROPY. , 2012, , .		0