

# 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	On-shell equivalence of general relativity and Holst theories with nonmetricity, torsion, and boundaries. <i>Physical Review D</i> , 2022, 105, .	4.7	3
2	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
3	Consistent and non-consistent deformations of gravitational theories. <i>Journal of High Energy Physics</i> , 2022, 2022, .	4.7	3
4	Geometric formulation of the covariant phase space methods with boundaries. <i>Physical Review D</i> , 2021, 103, .	4.7	24
5	Concise symplectic formulation for tetrad gravity. <i>Physical Review D</i> , 2021, 103, .	4.7	10
6	Hamiltonian Gotay-Nester-Hinds analysis of the parametrized unimodular extension of the Holst action. <i>Physical Review D</i> , 2021, 103, .	4.7	7
7	Palatini gravity with nonmetricity, torsion, and boundaries in metric and connection variables. <i>Physical Review D</i> , 2021, 104, .	4.7	6
8	Three Roads to the Geometric Constraint Formulation of Gravitational Theories with Boundaries. <i>Symmetry</i> , 2021, 13, 1430.	2.2	1
9	Covariant phase space for gravity with boundaries: Metric versus tetrad formulations. <i>Physical Review D</i> , 2021, 104, .	4.7	7
10	On the asymptotics of the rescaled Appell polynomials. <i>Advances in Applied Mathematics</i> , 2020, 113, 101962.	0.7	2
11	A two-sided Faulhaber-like formula involving Bernoulli polynomials. <i>Comptes Rendus Mathematique</i> , 2020, 358, 41-44.	0.3	1
12	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
13	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
14	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
15	Adiabatic expansions for Dirac fields, renormalization, and anomalies. <i>Physical Review D</i> , 2018, 98, .	4.7	29
16	Functional evolution of scalar fields in bounded one-dimensional regions. <i>Classical and Quantum Gravity</i> , 2017, 34, 065004.	4.0	0
17	Boundary Hilbert spaces and trace operators. <i>Classical and Quantum Gravity</i> , 2017, 34, 095005.	4.0	8
18	Hamiltonian dynamics of the parametrized electromagnetic field. <i>Classical and Quantum Gravity</i> , 2016, 33, 125030.	4.0	4

#	ARTICLE	IF	CITATIONS
19	Hamiltonian description of the parametrized scalar field in bounded spatial regions. Classical and Quantum Gravity, 2016, 33, 105002.	4.0	7
20	THE THERMODYNAMIC LIMIT FOR BLACK HOLES IN LOOP QUANTUM GRAVITY. , 2015, , .		0
21	Quantization of scalar fields coupled to point masses. Classical and Quantum Gravity, 2015, 32, 245009.	4.0	10
22	Gauge invariance in simple mechanical systems. European Journal of Physics, 2015, 36, 055005.	0.6	1
23	Hamiltonian treatment of linear field theories in the presence of boundaries: a geometric approach. Classical and Quantum Gravity, 2014, 31, 045021.	4.0	18
24	Bivariate generating functions for a class of linear recurrences: General structure. Journal of Combinatorial Theory - Series A, 2014, 125, 146-165.	0.8	19
25	Separable Hilbert space for loop quantization. Physical Review D, 2014, 90, .	4.7	13
26	Topology of the Misner space and its $g$ -boundary. General Relativity and Gravitation, 2014, 46, 1.	2.0	11
27	Band structure in the polymer quantization of the harmonic oscillator. Classical and Quantum Gravity, 2013, 30, 165011.	4.0	16
28	Quantum isolated horizons and black hole entropy. , 2013, , .		2
29	Black hole entropy in loop quantum gravity. Journal of Physics: Conference Series, 2012, 360, 012035.	0.4	3
30	Loops 11: Non-Perturbative / Background Independent Quantum Gravity. Journal of Physics: Conference Series, 2012, 360, 011001.	0.4	0
31	GENERATING FUNCTIONS FOR BLACK HOLES IN LOOP QUANTUM GRAVITY. , 2012, , .		0
32	FLUX-AREA OPERATOR AND BLACK HOLE ENTROPY. , 2012, , .		0
33	Statistical description of the black hole degeneracy spectrum. Physical Review D, 2011, 83, .	4.7	18
34	The thermodynamic limit and black hole entropy in the area ensemble. Classical and Quantum Gravity, 2011, 28, 215014.	4.0	11
35	Quantization of Midisuperspace Models. Living Reviews in Relativity, 2010, 13, 6.	26.7	19
36	Detailed black hole state counting in loop quantum gravity. Physical Review D, 2010, 82, .	4.7	68

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37	Semiclassical states for a symmetry reduced gravitational system. , 2009, , .		0
38	On the computation of black hole entropy in loop quantum gravity. Classical and Quantum Gravity, 2009, 26, 035017.	4.0	27
39	The time-dependent quantum harmonic oscillator revisited: Applications to quantum field theory. Annals of Physics, 2009, 324, 1360-1385.	2.8	30
40	Flux-area operator and black hole entropy. Physical Review D, 2009, 80, .	4.7	29
41	Combinatorics of the SU(2) black hole entropy in loop quantum gravity. Physical Review D, 2009, 80, .	4.7	46
42	Functional description of $\Lambda$ - and Gowdy cosmologies. Journal of Physics: Conference Series, 2009, 175, 012010.	0.4	0
43	Classical and quantum behavior of dynamical systems defined by functions of solvable Hamiltonians. American Journal of Physics, 2008, 76, 153-157.	0.7	1
44	Unitary evolution of free massless fields in de Sitter spacetime. Classical and Quantum Gravity, 2008, 25, 145008.	4.0	6
45	Introduction to Quantum Mechanics. AIP Conference Proceedings, 2008, , .	0.4	1
46	Quantum Einstein-Rosen waves: coherent states and n-point functions. Classical and Quantum Gravity, 2008, 25, 205013.	4.0	3
47	Quantum unitary evolution of linearly polarized $S^1 \times S^2$ and $S^3$ Gowdy models coupled to massless scalar fields. Classical and Quantum Gravity, 2008, 25, 085002.	4.0	22
48	Generating functions for black hole entropy in loop quantum gravity. Physical Review D, 2008, 77, .	4.7	27
49	Black Hole State Counting in Loop Quantum Gravity: A Number-Theoretical Approach. Physical Review Letters, 2008, 100, 211301.	7.8	93
50	EINSTEIN-ROSEN WAVES COUPLED TO MATTER. , 2008, , .		0
51	Hamiltonian dynamics of linearly polarized Gowdy models coupled to massless scalar fields. Classical and Quantum Gravity, 2007, 24, 5945-5972.	4.0	13
52	Quantization of linearly polarized cosmological models with two Killing vector fields. Journal of Physics: Conference Series, 2007, 66, 012035.	0.4	0
53	Evolution operators for linearly polarized two-Killing cosmological models. Physical Review D, 2006, 74, .	4.7	13
54	Coupling Einstein-Rosen Waves to Matter: The Massless Scalar Field Case. AIP Conference Proceedings, 2006, , .	0.4	0

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55	Probing quantized Einstein-Rosen waves with massless scalar matter. <i>Physical Review D</i> , 2006, 74, .	4.7	4
56	Asymptotics of regulated field commutators for Einstein-Rosen waves. <i>Journal of Mathematical Physics</i> , 2005, 46, 062306.	1.1	3
57	Exact Quantization of Einstein-Rosen Waves Coupled to Massless Scalar Matter. <i>Physical Review Letters</i> , 2005, 95, 051301.	7.8	7
58	Time uncertainty in quantum gravitational systems. <i>Physical Review D</i> , 2004, 69, .	4.7	9
59	Particles and vacuum for perturbative and nonperturbative Einstein-Rosen gravity. <i>Physical Review D</i> , 2004, 70, .	4.7	3
60	Asymptotic analysis of field commutators for Einstein-Rosen gravitational waves. <i>Journal of Mathematical Physics</i> , 2004, 45, 3498-3532.	1.1	7
61	QUANTUM CYLINDRICAL WAVES AND SIGMA MODELS. <i>International Journal of Modern Physics D</i> , 2004, 13, 1119-1127.	2.1	4
62	Microcausality and quantum cylindrical gravitational waves. <i>Physical Review D</i> , 2003, 67, .	4.7	24
63	Lorentz violations and Euclidean signature metrics. <i>Physical Review D</i> , 2003, 68, .	4.7	18
64	Diff-invariant kinetic terms in arbitrary dimensions. <i>Physical Review D</i> , 2002, 65, .	4.7	1
65	Kinetic terms for 2-forms in four dimensions. <i>Physical Review D</i> , 2002, 66, .	4.7	0
66	Higher derivative fermionic field theories. <i>Journal of Physics A</i> , 2002, 35, 6169-6182.	1.6	9
67	Quadratic s-form field actions with semi-bounded energy. <i>Nuclear Physics B</i> , 2001, 600, 423-449.	2.5	4
68	Higher-derivative boson field theories and constrained second-order theories. <i>Journal of Physics A</i> , 2001, 34, 8919-8940.	1.6	7
69	BFactions for the Husain-Kuchař™ model. <i>Physical Review D</i> , 2001, 63, .	4.7	8
70	In search of local degrees of freedom in quadratic diff-invariant Lagrangians. <i>Physical Review D</i> , 2000, 61, .	4.7	5
71	Gauge fixing in higher-derivative gravity. <i>Classical and Quantum Gravity</i> , 1999, 16, 2283-2298.	4.0	8