Etera R Livine

List of Publications by Year
in descending order

123 papers	4,366 citations	126907 33 h-index	118850 62 g-index
123 all docs	123 docs citations	123 times ranked	1123 citing authors

#	Article	IF	Citations
1	Self-duality of the $6j$-symbol and Fisher zeros for the tetrahedron. Annales De L'Institut Henri Poincare (D) Combinatorics, Physics and Their Interactions, 2022, 9, 73-119.	1.1	1
2	Classical dynamics for loop gravity: The two-vertex model. Physical Review D, 2022, 105, .	4.7	2
3	Hawking radiation by spherically-symmetric static black holes for all spins: Teukolsky equations and potentials. Physical Review D, 2021, 103, .	4.7	15
4	Loop quantum gravity boundary dynamics and $SL(2,C)$ gauge theory. Classical and Quantum Gravity, 2021, 38, 135031.	4.0	4
5	Loop quantum gravity's boundary maps. Classical and Quantum Gravity, 2021, 38, 155019.	4.0	10
6	Twisted geometries coherent states for loop quantum gravity. Classical and Quantum Gravity, 2021, 38, 025004.	4.0	9
7	Hawking radiation by spherically-symmetric static black holes for all spins. II. Numerical emission rates, analytical limits, and new constraints. Physical Review D, 2021, 104, .	4.7	10
8	The quantum gravity disk: Discrete current algebra. Journal of Mathematical Physics, 2021, 62, 102303.	1.1	3
9	Symmetries and conformal bridge in Schwarschild-(A)dS black hole mechanics. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
10	q-deformed 3D loop gravity on the torus. Classical and Quantum Gravity, 2020, 37, 025017.	4.0	5
11	Kinematical gravitational charge algebra. Physical Review D, 2020, 101, .	4.7	14
12	Cosmological spinor. Physical Review D, 2020, 101, .	4.7	7
13	Non-perturbative 3D quantum gravity: quantum boundary states and exact partition function. General Relativity and Gravitation, 2020, 52, 1.	2.0	15
14	Conformal structure of FLRW cosmology: spinorial representation and the $\mathfrak{so}(2, 3)$ algebra of observables. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
15	The cosmological constant from conformal transformations: Möbius invariance and Schwarzian action. Classical and Quantum Gravity, 2020, 37, 215001.	4.0	10
16	Quasi-local holographic dualities in non-perturbative 3d quantum gravity I – Convergence of multiple approaches and examples of Ponzano–Regge statistical duals. Nuclear Physics B, 2019, 938, 807-877.	2.5	29
17	Quasi-local holographic dualities in non-perturbative 3d quantum gravity II – From coherent quantum boundaries to BMS3 characters. Nuclear Physics B, 2019, 938, 878-934.	2.5	22
18	Gravitational edge modes: from Kac–Moody charges to Poincaré networks. Classical and Quantum Gravity, 2019, 36, 195014.	4.0	30

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19	Area propagator and boosted spin networks in loop quantum gravity. Classical and Quantum Gravity, 2019, 36, 185009.	4.0	6
20	Hamiltonian flows of Lorentzian polyhedra: Kapovich-Millson phase space and SU(1, 1) intertwiners. Journal of Mathematical Physics, 2019, 60, 012301.	1.1	0
21	Bubble networks: framed discrete geometry for quantum gravity. General Relativity and Gravitation, 2019, 51, 1.	2.0	20
22	Cosmology as a CFT1. Journal of High Energy Physics, 2019, 2019, 1.	4.7	22
23	Polymer quantum cosmology: Lifting quantization ambiguities using a SL(2,R) conformal symmetry. Physical Review D, 2019, 99, .	4.7	16
24	Intertwiner entanglement on spin networks. Physical Review D, 2018, 97, .	4.7	20
25	Entanglement entropy and correlations in loop quantum gravity. Classical and Quantum Gravity, 2018, 35, 045009.	4.0	10
26	Probing the shape of quantum surfaces: the quadrupole moment operator. Classical and Quantum Gravity, 2018, 35, 215004.	4.0	1
27	Quasi-local holographic dualities in non-perturbative 3D quantum gravity. Classical and Quantum Gravity, 2018, 35, 13LT01.	4.0	31
28	From coarse-graining to holography in loop quantum gravity. Europhysics Letters, 2018, 123, 10001.	2.0	9
29	Surface state decoherence in loop quantum gravity, a first toy model. Classical and Quantum Gravity, 2017, 34, 045004.	4.0	8
30	The closure constraint for the hyperbolic tetrahedron as a Bianchi identity. General Relativity and Gravitation, 2017, 49, 1.	2.0	8
31	Thiemann complexifier in classical and quantum FLRW cosmology. Physical Review D, 2017, 96, .	4.7	24
32	3d Quantum Gravity: Coarse-Graining and $$\varvec{q}$$ q -Deformation. Annales Henri Poincare, 2017, 18, 1465-1491.	1.7	12
33	Quantum surface and intertwiner dynamics in loop quantum gravity. Physical Review D, 2017, 95, .	4.7	10
34	Duality Between Spin Networks and the 2D Ising Model. Communications in Mathematical Physics, 2016, 344, 531-579.	2.2	16
35	The Fock space of loopy spin networks for quantum gravity. General Relativity and Gravitation, 2016, 48, 1.	2.0	26
36	Ising spin network states for loop quantum gravity: a toy model for phase transitions. Classical and Quantum Gravity, 2016, 33, 065005.	4.0	16

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37	Ashtekar-Barbero holonomy on the hyperboloid: Immirzi parameter as a cutoff for quantum gravity. Physical Review D, 2015, 92, .	4.7	4
38	Closure constraints for hyperbolic tetrahedra. Classical and Quantum Gravity, 2015, 32, 135003.	4.0	15
39	Deformed spinor networks for loop gravity: towards hyperbolic twisted geometries. General Relativity and Gravitation, 2014, 46, 1.	2.0	26
40	Deformation operators of spin networks and coarse-graining. Classical and Quantum Gravity, 2014, 31, 075004.	4.0	41
41	On terminal forms for topological polynomials for ribbon graphs: TheN-petal flower. European Journal of Combinatorics, 2014, 36, 348-366.	0.8	3
42	Some classes of renormalizable tensor models. Journal of Mathematical Physics, 2013, 54, .	1.1	40
43	Deformations of polyhedra and polygons by the unitary group. Journal of Mathematical Physics, 2013, 54, .	1.1	24
44	Classical setting and effective dynamics for spinfoam cosmology. Classical and Quantum Gravity, 2013, 30, 035006.	4.0	16
45	Generating functions for coherent intertwiners. Classical and Quantum Gravity, 2013, 30, 055018.	4.0	21
46	Holonomy operator and quantization ambiguities on spinor space. Physical Review D, 2013, 87, .	4.7	19
47	New tools for Loop Quantum Gravity with applications to a simple model. , 2012, , .		0
48	Holomorphic Lorentzian simplicity constraints. Journal of Mathematical Physics, 2012, 53, 032502.	1.1	40
49	Spinors group field theory and Voros star product: First contact. Physical Review D, 2012, 86, .	4.7	11
50	Dynamics for a simple graph using the $U(N)$ framework for loop quantum gravity. Journal of Physics: Conference Series, 2012, 360, 012019.	0.4	1
51	Holomorphic Simplicity Constraints for 4d Riemannian Spinfoam Models. Journal of Physics: Conference Series, 2012, 360, 012046.	0.4	12
52	Loop gravity in terms of spinors. Journal of Physics: Conference Series, 2012, 360, 012023.	0.4	6
53	Twistor networks and covariant twisted geometries. Physical Review D, 2012, 85, .	4.7	27
54	Group theoretical quantization of isotropic loop cosmology. Physical Review D, 2012, 85, .	4.7	18

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55	A new Hamiltonian for the topological BF phase with spinor networks. Journal of Mathematical Physics, 2012, 53, .	1.1	24
56	Spinor representation for loop quantum gravity. Journal of Mathematical Physics, 2012, 53, 012503.	1.1	57
57	Entropy in the classical and quantum polymer black hole models. Classical and Quantum Gravity, 2012, 29, 224012.	4.0	13
58	A New Recursion Relation for the 6j-Symbol. Annales Henri Poincare, 2012, 13, 1083-1099.	1.7	5
59	U(N) tools for loop quantum gravity: the return of the spinor. Classical and Quantum Gravity, 2011, 28, 055005.	4.0	53
60	U(<i>N</i>) coherent states for loop quantum gravity. Journal of Mathematical Physics, 2011, 52, .	1.1	67
61	U(<i>N</i>) invariant dynamics for a simplified loop quantum gravity model. Journal of Physics: Conference Series, 2011, 314, 012041.	0.4	1
62	Scalar field theory in Snyder space-time: alternatives. Journal of High Energy Physics, 2011, 2011, 1.	4.7	38
63	Boundary state stability under spinfoam evolution for the quantum 4-simplex. Classical and Quantum Gravity, 2011, 28, 215002.	4.0	1
64	Revisiting the simplicity constraints and coherent intertwiners. Classical and Quantum Gravity, 2011, 28, 085001.	4.0	30
65	Holomorphic simplicity constraints for 4D spinfoam models. Classical and Quantum Gravity, 2011, 28, 215022.	4.0	48
66	Effective Hamiltonian constraint from group field theory. Classical and Quantum Gravity, 2011, 28, 245010.	4.0	21
67	Holomorphic Factorization for a Quantum Tetrahedron. Communications in Mathematical Physics, 2010, 297, 45-93.	2.2	53
68	The fine structure of SU(2) intertwiners from U(N) representations. Journal of Mathematical Physics, 2010, 51, .	1.1	66
69	A deformed PoincarÃ© invariance for group field theories. Classical and Quantum Gravity, 2010, 27, 245018.	4.0	27
70	The particle interpretation of N = 1 supersymmetric spin foams. Classical and Quantum Gravity, 2010, 27, 225022.	4.0	4
71	Dynamics for a 2-vertex quantum gravity model. Classical and Quantum Gravity, 2010, 27, 235010.	4.0	34
72	The 6j-symbol: recursion, correlations and asymptotics. Classical and Quantum Gravity, 2010, 27, 135003.	4.0	13

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73	The sub-leading asymptotic behaviour of area correlations in the Barrett–Crane model. Classical and Quantum Gravity, 2010, 27, 035012.	4.0	9
74	Recurrence relations for spin foam vertices. Classical and Quantum Gravity, 2010, 27, 125002.	4.0	30
75	Lifting SU(2) spin networks to projected spin networks. Physical Review D, 2010, 82, .	4.7	51
76	Four-dimensional deformed special relativity from group field theories. Physical Review D, 2010, 81, .	4.7	44
77	Special relativity as a noncommutative geometry: Lessons for deformed special relativity. Physical Review D, 2010, 81, .	4.7	14
78	Notes on qubit phase space and discrete symplectic structures. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 075303.	2.1	9
79	Exact and approximate unitary 2-designs and their application to fidelity estimation. Physical Review A, 2009, 80, .	2.5	376
80	A note on B-observables in Ponzano–Regge 3D quantum gravity. Classical and Quantum Gravity, 2009, 26, 035013.	4.0	11
81	Matrix models as non-commutative field theories on $\mathbb{R}^3$. Classical and Quantum Gravity, 2009, 26, 195014.	4.0	18
82	Field Theories with Homogeneous Momentum Space. , 2009, , .		2
83	Numerical evidence of regularized correlations in spin foam gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 670, 403-406.	4.1	25
84	The entropic boundary law in BF theory. Nuclear Physics B, 2009, 806, 715-734.	2.5	8
85	Pushing the asymptotics of the $6j$-symbol further. Physical Review D, 2009, 80, .	4.7	16
86	Lagrangian approach to the Barrett-Crane spin foam model. Physical Review D, 2009, 79, .	4.7	26
87	Bulk entropy in loop quantum gravity. Nuclear Physics B, 2008, 794, 138-153.	2.5	30
88	LQG vertex with finite Immirzi parameter. Nuclear Physics B, 2008, 799, 136-149.	2.5	421
89	Towards the graviton from spinfoams: The complete perturbative expansion of the 3d toy model. Nuclear Physics B, 2008, 804, 507-526.	2.5	25
90	A Immirzi-like parameter for 3D quantum gravity. Classical and Quantum Gravity, 2008, 25, 195024.	4.0	33

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91	*N* = 2 supersymmetric spin foams in three dimensions. Classical and Quantum Gravity, 2008, 25, 175014.	4.0	7
92	Physical boundary state for the quantum tetrahedron. Classical and Quantum Gravity, 2008, 25, 085003.	4.0	12
93	Solving the simplicity constraints for spinfoam quantum gravity. Europhysics Letters, 2008, 81, 50004.	2.0	123
94	3D spinfoam quantum gravity: matter as a phase of the group field theory. Classical and Quantum Gravity, 2007, 24, 5277-5297.	4.0	54
95	Coupling of spacetime atoms in 4D spin foam models from group field theory. Journal of High Energy Physics, 2007, 2007, 092-092.	4.7	15
96	Towards the graviton from spinfoams: Higher order corrections in the 3D toy model. Physical Review D, 2007, 75, .	4.7	37
97	Some comments on the universal constant in DSR. Journal of Physics: Conference Series, 2007, 67, 012030.	0.4	4
98	Quantum causal histories in the light of quantum information. Physical Review D, 2007, 75, .	4.7	13
99	Relativistic particle: Dirac observables and Feynman propagator. Physical Review D, 2007, 75, .	4.7	13
100	New spinfoam vertex for quantum gravity. Physical Review D, 2007, 76, .	4.7	274
101	Free particle in deformed special relativity. Physical Review D, 2006, 73, .	4.7	47
102	3D Quantum Gravity and Effective Noncommutative Quantum Field Theory. Physical Review Letters, 2006, 96, 221301.	7.8	226
103	Quantum black holes: Entropy and entanglement on the horizon. Nuclear Physics B, 2006, 741, 131-161.	2.5	76
104	Ponzano–Regge model revisited: III. Feynman diagrams and effective field theory. Classical and Quantum Gravity, 2006, 23, 2021-2061.	4.0	187
105	Group integral techniques for the spinfoam graviton propagator. Journal of High Energy Physics, 2006, 2006, 092-092.	4.7	61
106	Some remarks on the semi-classical limit of quantum gravity. Brazilian Journal of Physics, 2005, 35, 442-446.	1.4	3
107	Physics of deformed special relativity: relativity principle revisited. Brazilian Journal of Physics, 2005, 35, 432-438.	1.4	32
108	Coherent states for 3d deformed special relativity: semi-classical points in a quantum flat spacetime. Journal of High Energy Physics, 2005, 2005, 050-050.	4.7	9

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109	Reconstructing quantum geometry from quantum information: spin networks as harmonic oscillators. Classical and Quantum Gravity, 2005, 22, 3295-3313.	4.0	71
110	Holonomic Quantum Computation in the Presence of Decoherence. Physical Review Letters, 2005, 94, 020503.	7.8	55
111	Entanglement of zero-angular-momentum mixtures and black-hole entropy. Physical Review A, 2005, 72, .	2.5	10
112	Convergence conditions for random quantum circuits. Physical Review A, 2005, 72, .	2.5	57
113	Deformed special relativity as an effective flat limit of quantum gravity. Nuclear Physics B, 2005, 708, 411-433.	2.5	115
114	About Lorentz invariance in a discrete quantum setting. Journal of High Energy Physics, 2004, 2004, 050-050.	4.7	25
115	Quantizing speeds with the cosmological constant. Physical Review D, 2004, 69, .	4.7	5
116	Implementing causality in the spin foam quantum geometry. Nuclear Physics B, 2003, 663, 231-279.	2.5	38
117	Spin networks for noncompact groups. Journal of Mathematical Physics, 2003, 44, 1322-1356.	1.1	58
118	SU(2)loop quantum gravity seen from covariant theory. Physical Review D, 2003, 67, .	4.7	100
119	Spectra of length and area in (2 Â 1) Lorentzian loop quantum gravity. Classical and Quantum Gravity, 2003, 20, 1463-1478.	4.0	54
120	2D manifold-independent spinfoam theory. Classical and Quantum Gravity, 2003, 20, 4425-4445.	4.0	13
121	Three-dimensional Quantum Supergravity and Supersymmetric Spin Foam Models. Advances in Theoretical and Mathematical Physics, 2003, 7, 951-1001.	0.6	15
122	Projected spin networks for Lorentz connection: linking spin foams and loop gravity. Classical and Quantum Gravity, 2002, 19, 5525-5541.	4.0	69
123	The Ponzano-Regge cylinder and propagator for 3d quantum gravity. Classical and Quantum Gravity, 0, , .	4.0	0