

Etera R Livine

List of Publications by Year in descending order

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123
papers

4,366
citations

126907

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118850

62
g-index

123
all docs

123
docs citations

123
times ranked

1123
citing authors

#	ARTICLE	IF	CITATIONS
1	LQG vertex with finite Immirzi parameter. Nuclear Physics B, 2008, 799, 136-149.	2.5	421
2	Exact and approximate unitary 2-designs and their application to fidelity estimation. Physical Review A, 2009, 80, .	2.5	376
3	New spinfoam vertex for quantum gravity. Physical Review D, 2007, 76, .	4.7	274
4	3D Quantum Gravity and Effective Noncommutative Quantum Field Theory. Physical Review Letters, 2006, 96, 221301.	7.8	226
5	Ponzano's Regge model revisited: III. Feynman diagrams and effective field theory. Classical and Quantum Gravity, 2006, 23, 2021-2061.	4.0	187
6	Solving the simplicity constraints for spinfoam quantum gravity. Europhysics Letters, 2008, 81, 50004.	2.0	123
7	Deformed special relativity as an effective flat limit of quantum gravity. Nuclear Physics B, 2005, 708, 411-433.	2.5	115
8	SU(2) loop quantum gravity seen from covariant theory. Physical Review D, 2003, 67, .	4.7	100
9	Quantum black holes: Entropy and entanglement on the horizon. Nuclear Physics B, 2006, 741, 131-161.	2.5	76
10	Reconstructing quantum geometry from quantum information: spin networks as harmonic oscillators. Classical and Quantum Gravity, 2005, 22, 3295-3313.	4.0	71
11	Projected spin networks for Lorentz connection: linking spin foams and loop gravity. Classical and Quantum Gravity, 2002, 19, 5525-5541.	4.0	69
12	$U(N)$ coherent states for loop quantum gravity. Journal of Mathematical Physics, 2011, 52, .	1.1	67
13	The fine structure of SU(2) intertwiners from U(N) representations. Journal of Mathematical Physics, 2010, 51, .	1.1	66
14	Group integral techniques for the spinfoam graviton propagator. Journal of High Energy Physics, 2006, 2006, 092-092.	4.7	61
15	Spin networks for noncompact groups. Journal of Mathematical Physics, 2003, 44, 1322-1356.	1.1	58
16	Convergence conditions for random quantum circuits. Physical Review A, 2005, 72, .	2.5	57
17	Spinor representation for loop quantum gravity. Journal of Mathematical Physics, 2012, 53, 012503.	1.1	57
18	Holonomic Quantum Computation in the Presence of Decoherence. Physical Review Letters, 2005, 94, 020503.	7.8	55

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19	Spectra of length and area in (2×1) Lorentzian loop quantum gravity. <i>Classical and Quantum Gravity</i> , 2003, 20, 1463-1478.	4.0	54
20	3D spinfoam quantum gravity: matter as a phase of the group field theory. <i>Classical and Quantum Gravity</i> , 2007, 24, 5277-5297.	4.0	54
21	Holomorphic Factorization for a Quantum Tetrahedron. <i>Communications in Mathematical Physics</i> , 2010, 297, 45-93.	2.2	53
22	$U(N)$ tools for loop quantum gravity: the return of the spinor. <i>Classical and Quantum Gravity</i> , 2011, 28, 055005.	4.0	53
23	Lifting $SU(2)$ spin networks to projected spin networks. <i>Physical Review D</i> , 2010, 82, .	4.7	51
24	Holomorphic simplicity constraints for 4D spinfoam models. <i>Classical and Quantum Gravity</i> , 2011, 28, 215022.	4.0	48
25	Free particle in deformed special relativity. <i>Physical Review D</i> , 2006, 73, .	4.7	47
26	Four-dimensional deformed special relativity from group field theories. <i>Physical Review D</i> , 2010, 81, .	4.7	44
27	Deformation operators of spin networks and coarse-graining. <i>Classical and Quantum Gravity</i> , 2014, 31, 075004.	4.0	41
28	Holomorphic Lorentzian simplicity constraints. <i>Journal of Mathematical Physics</i> , 2012, 53, 032502.	1.1	40
29	Some classes of renormalizable tensor models. <i>Journal of Mathematical Physics</i> , 2013, 54, .	1.1	40
30	Implementing causality in the spin foam quantum geometry. <i>Nuclear Physics B</i> , 2003, 663, 231-279.	2.5	38
31	Scalar field theory in Snyder space-time: alternatives. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	38
32	Towards the graviton from spinfoams: Higher order corrections in the 3D toy model. <i>Physical Review D</i> , 2007, 75, .	4.7	37
33	Dynamics for a 2-vertex quantum gravity model. <i>Classical and Quantum Gravity</i> , 2010, 27, 235010.	4.0	34
34	A Immirzi-like parameter for 3D quantum gravity. <i>Classical and Quantum Gravity</i> , 2008, 25, 195024.	4.0	33
35	Physics of deformed special relativity: relativity principle revisited. <i>Brazilian Journal of Physics</i> , 2005, 35, 432-438.	1.4	32
36	Quasi-local holographic dualities in non-perturbative 3D quantum gravity. <i>Classical and Quantum Gravity</i> , 2018, 35, 13LT01.	4.0	31

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37	Bulk entropy in loop quantum gravity. Nuclear Physics B, 2008, 794, 138-153.	2.5	30
38	Recurrence relations for spin foam vertices. Classical and Quantum Gravity, 2010, 27, 125002.	4.0	30
39	Revisiting the simplicity constraints and coherent intertwiners. Classical and Quantum Gravity, 2011, 28, 085001.	4.0	30
40	Gravitational edge modes: from Kac-Moody charges to Poincaré networks. Classical and Quantum Gravity, 2019, 36, 195014.	4.0	30
41	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
42	A deformed Poincaré invariance for group field theories. Classical and Quantum Gravity, 2010, 27, 245018.	4.0	27
43	Twistor networks and covariant twisted geometries. Physical Review D, 2012, 85, .	4.7	27
44	Lagrangian approach to the Barrett-Crane spin foam model. Physical Review D, 2009, 79, .	4.7	26
45	Deformed spinor networks for loop gravity: towards hyperbolic twisted geometries. General Relativity and Gravitation, 2014, 46, 1.	2.0	26
46	The Fock space of loopy spin networks for quantum gravity. General Relativity and Gravitation, 2016, 48, 1.	2.0	26
47	About Lorentz invariance in a discrete quantum setting. Journal of High Energy Physics, 2004, 2004, 050-050.	4.7	25
48	Towards the graviton from spinfoams: The complete perturbative expansion of the 3d toy model. Nuclear Physics B, 2008, 804, 507-526.	2.5	25
49	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
50	A new Hamiltonian for the topological BF phase with spinor networks. Journal of Mathematical Physics, 2012, 53, .	1.1	24
51	Deformations of polyhedra and polygons by the unitary group. Journal of Mathematical Physics, 2013, 54, .	1.1	24
52	Thiemann complexifier in classical and quantum FLRW cosmology. Physical Review D, 2017, 96, .	4.7	24
53	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
54	Cosmology as a CFT1. Journal of High Energy Physics, 2019, 2019, 1.	4.7	22

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55	Effective Hamiltonian constraint from group field theory. <i>Classical and Quantum Gravity</i> , 2011, 28, 245010.	4.0	21
56	Generating functions for coherent intertwiners. <i>Classical and Quantum Gravity</i> , 2013, 30, 055018.	4.0	21
57	Intertwiner entanglement on spin networks. <i>Physical Review D</i> , 2018, 97, .	4.7	20
58	Bubble networks: framed discrete geometry for quantum gravity. <i>General Relativity and Gravitation</i> , 2019, 51, 1.	2.0	20
59	Holonomy operator and quantization ambiguities on spinor space. <i>Physical Review D</i> , 2013, 87, .	4.7	19
60	Matrix models as non-commutative field theories on \mathbb{R}^3 . <i>Classical and Quantum Gravity</i> , 2009, 26, 195014.	4.0	18
61	Group theoretical quantization of isotropic loop cosmology. <i>Physical Review D</i> , 2012, 85, .	4.7	18
62	Pushing the asymptotics of the $\langle \mathbb{Z}_6 \rangle$ symbol further. <i>Physical Review D</i> , 2009, 80, .	4.7	16
63	Classical setting and effective dynamics for spinfoam cosmology. <i>Classical and Quantum Gravity</i> , 2013, 30, 035006.	4.0	16
64	Duality Between Spin Networks and the 2D Ising Model. <i>Communications in Mathematical Physics</i> , 2016, 344, 531-579.	2.2	16
65	Ising spin network states for loop quantum gravity: a toy model for phase transitions. <i>Classical and Quantum Gravity</i> , 2016, 33, 065005.	4.0	16
66	Polymer quantum cosmology: Lifting quantization ambiguities using a $SL(2, \mathbb{R})$ conformal symmetry. <i>Physical Review D</i> , 2019, 99, .	4.7	16
67	Coupling of spacetime atoms in 4D spin foam models from group field theory. <i>Journal of High Energy Physics</i> , 2007, 2007, 092-092.	4.7	15
68	Closure constraints for hyperbolic tetrahedra. <i>Classical and Quantum Gravity</i> , 2015, 32, 135003.	4.0	15
69	Non-perturbative 3D quantum gravity: quantum boundary states and exact partition function. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	2.0	15
70	Hawking radiation by spherically-symmetric static black holes for all spins: Teukolsky equations and potentials. <i>Physical Review D</i> , 2021, 103, .	4.7	15
71	Three-dimensional Quantum Supergravity and Supersymmetric Spin Foam Models. <i>Advances in Theoretical and Mathematical Physics</i> , 2003, 7, 951-1001.	0.6	15
72	Special relativity as a noncommutative geometry: Lessons for deformed special relativity. <i>Physical Review D</i> , 2010, 81, .	4.7	14

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73	Kinematical gravitational charge algebra. <i>Physical Review D</i> , 2020, 101, .	4.7	14
74	2D manifold-independent spinfoam theory. <i>Classical and Quantum Gravity</i> , 2003, 20, 4425-4445.	4.0	13
75	Quantum causal histories in the light of quantum information. <i>Physical Review D</i> , 2007, 75, .	4.7	13
76	Relativistic particle: Dirac observables and Feynman propagator. <i>Physical Review D</i> , 2007, 75, .	4.7	13
77	The 6j-symbol: recursion, correlations and asymptotics. <i>Classical and Quantum Gravity</i> , 2010, 27, 135003.	4.0	13
78	Entropy in the classical and quantum polymer black hole models. <i>Classical and Quantum Gravity</i> , 2012, 29, 224012.	4.0	13
79	Physical boundary state for the quantum tetrahedron. <i>Classical and Quantum Gravity</i> , 2008, 25, 085003.	4.0	12
80	Holomorphic Simplicity Constraints for 4d Riemannian Spinfoam Models. <i>Journal of Physics: Conference Series</i> , 2012, 360, 012046.	0.4	12
81	3d Quantum Gravity: Coarse-Graining and q -Deformation. <i>Annales Henri Poincare</i> , 2017, 18, 1465-1491.	1.7	12
82	Conformal structure of FLRW cosmology: spinorial representation and the $\mathfrak{so}(2, 3)$ algebra of observables. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	12
83	A note on B-observables in Ponzano's Regge 3D quantum gravity. <i>Classical and Quantum Gravity</i> , 2009, 26, 035013.	4.0	11
84	Spinors group field theory and Voros star product: First contact. <i>Physical Review D</i> , 2012, 86, .	4.7	11
85	Entanglement of zero-angular-momentum mixtures and black-hole entropy. <i>Physical Review A</i> , 2005, 72, .	2.5	10
86	Quantum surface and intertwiner dynamics in loop quantum gravity. <i>Physical Review D</i> , 2017, 95, .	4.7	10
87	Entanglement entropy and correlations in loop quantum gravity. <i>Classical and Quantum Gravity</i> , 2018, 35, 045009.	4.0	10
88	Loop quantum gravity's boundary maps. <i>Classical and Quantum Gravity</i> , 2021, 38, 155019.	4.0	10
89	The cosmological constant from conformal transformations: Möbius invariance and Schwarzian action. <i>Classical and Quantum Gravity</i> , 2020, 37, 215001.	4.0	10
90	Hawking radiation by spherically-symmetric static black holes for all spins. II. Numerical emission rates, analytical limits, and new constraints. <i>Physical Review D</i> , 2021, 104, .	4.7	10

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91	Coherent states for 3d deformed special relativity: semi-classical points in a quantum flat spacetime. <i>Journal of High Energy Physics</i> , 2005, 2005, 050-050.	4.7	9
92	The sub-leading asymptotic behaviour of area correlations in the Barrett-Crane model. <i>Classical and Quantum Gravity</i> , 2010, 27, 035012.	4.0	9
93	Notes on qubit phase space and discrete symplectic structures. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 075303.	2.1	9
94	From coarse-graining to holography in loop quantum gravity. <i>Europhysics Letters</i> , 2018, 123, 10001.	2.0	9
95	Twisted geometries coherent states for loop quantum gravity. <i>Classical and Quantum Gravity</i> , 2021, 38, 025004.	4.0	9
96	The entropic boundary law in BF theory. <i>Nuclear Physics B</i> , 2009, 806, 715-734.	2.5	8
97	Surface state decoherence in loop quantum gravity, a first toy model. <i>Classical and Quantum Gravity</i> , 2017, 34, 045004.	4.0	8
98	The closure constraint for the hyperbolic tetrahedron as a Bianchi identity. <i>General Relativity and Gravitation</i> , 2017, 49, 1.	2.0	8
99	Symmetries and conformal bridge in Schwarzschild-(A)dS black hole mechanics. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	8
100	$N = 2$ supersymmetric spin foams in three dimensions. <i>Classical and Quantum Gravity</i> , 2008, 25, 175014.	4.0	7
101	Cosmological spinor. <i>Physical Review D</i> , 2020, 101, .	4.7	7
102	Loop gravity in terms of spinors. <i>Journal of Physics: Conference Series</i> , 2012, 360, 012023.	0.4	6
103	Area propagator and boosted spin networks in loop quantum gravity. <i>Classical and Quantum Gravity</i> , 2019, 36, 185009.	4.0	6
104	Quantizing speeds with the cosmological constant. <i>Physical Review D</i> , 2004, 69, .	4.7	5
105	A New Recursion Relation for the 6j-Symbol. <i>Annales Henri Poincare</i> , 2012, 13, 1083-1099.	1.7	5
106	q -deformed 3D loop gravity on the torus. <i>Classical and Quantum Gravity</i> , 2020, 37, 025017.	4.0	5
107	Some comments on the universal constant in DSR. <i>Journal of Physics: Conference Series</i> , 2007, 67, 012030.	0.4	4
108	The particle interpretation of $N = 1$ supersymmetric spin foams. <i>Classical and Quantum Gravity</i> , 2010, 27, 225022.	4.0	4

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109	Ashtekar-Barbero holonomy on the hyperboloid: Immirzi parameter as a cutoff for quantum gravity. <i>Physical Review D</i> , 2015, 92, .	4.7	4
110	Loop quantum gravity boundary dynamics and $SL(2, \mathbb{C})$ gauge theory. <i>Classical and Quantum Gravity</i> , 2021, 38, 135031.	4.0	4
111	Some remarks on the semi-classical limit of quantum gravity. <i>Brazilian Journal of Physics</i> , 2005, 35, 442-446.	1.4	3
112	On terminal forms for topological polynomials for ribbon graphs: The N -petal flower. <i>European Journal of Combinatorics</i> , 2014, 36, 348-366.	0.8	3
113	The quantum gravity disk: Discrete current algebra. <i>Journal of Mathematical Physics</i> , 2021, 62, 102303.	1.1	3
114	Field Theories with Homogeneous Momentum Space. , 2009, , .		2
115	Classical dynamics for loop gravity: The two-vertex model. <i>Physical Review D</i> , 2022, 105, .	4.7	2
116	$U(N)$ invariant dynamics for a simplified loop quantum gravity model. <i>Journal of Physics: Conference Series</i> , 2011, 314, 012041.	0.4	1
117	Boundary state stability under spinfoam evolution for the quantum 4-simplex. <i>Classical and Quantum Gravity</i> , 2011, 28, 215002.	4.0	1
118	Dynamics for a simple graph using the $U(N)$ framework for loop quantum gravity. <i>Journal of Physics: Conference Series</i> , 2012, 360, 012019.	0.4	1
119	Probing the shape of quantum surfaces: the quadrupole moment operator. <i>Classical and Quantum Gravity</i> , 2018, 35, 215004.	4.0	1
120	Self-duality of the $6j$ -symbol and Fisher zeros for the tetrahedron. <i>Annales De L'Institut Henri Poincare (D) Combinatorics, Physics and Their Interactions</i> , 2022, 9, 73-119.	1.1	1
121	New tools for Loop Quantum Gravity with applications to a simple model. , 2012, , .		0
122	Hamiltonian flows of Lorentzian polyhedra: Kapovich-Millson phase space and $SU(1, 1)$ intertwiners. <i>Journal of Mathematical Physics</i> , 2019, 60, 012301.	1.1	0
123	The Ponzano-Regge cylinder and propagator for 3d quantum gravity. <i>Classical and Quantum Gravity</i> , 0, , .	4.0	0