

Renate Loll

List of Publications by Year in descending order

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62

papers

3,904

citations

186265

28

h-index

155660

55

g-index

62

all docs

62

docs citations

62

times ranked

637

citing authors

#	ARTICLE	IF	CITATIONS
1	Curvature profiles for quantum gravity. <i>Physical Review D</i> , 2021, 103, .	4.7	6
2	Geometric flux formula for the gravitational Wilson loop. <i>Classical and Quantum Gravity</i> , 2021, 38, 075011.	4.0	3
3	Quantum flatness in two-dimensional quantum gravity. <i>Physical Review D</i> , 2021, 104, .	4.7	6
4	Renormalization in Quantum Theories of Geometry. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	19
5	Quantum gravity from causal dynamical triangulations: a review. <i>Classical and Quantum Gravity</i> , 2020, 37, 013002.	4.0	179
6	How round is the quantum de Sitter universe?. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	18
7	Introducing quantum Ricci curvature. <i>Physical Review D</i> , 2018, 97, .	4.7	29
8	Implementing quantum Ricci curvature. <i>Physical Review D</i> , 2018, 97, .	4.7	24
9	Spherically symmetric solutions of the $\text{H} \circ \text{mml:math}$ $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ display="inline" $\langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{l} \langle / \text{mml:mi} \rangle \langle \text{mml:mtext} \rangle \hat{\sim} \langle / \text{mml:mtext} \rangle \langle \text{mml:mi} \rangle R \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle / \text{mml:math} \rangle$ <i>Physical Review D</i> , 2017, 96, .	4.7	10
10	CDT and cosmology. <i>Comptes Rendus Physique</i> , 2017, 18, 265-274.	0.9	12
11	Characteristics of the new phase in CDT. <i>European Physical Journal C</i> , 2017, 77, 152.	3.9	28
12	Wilson loops in nonperturbative quantum gravity. <i>Physical Review D</i> , 2015, 92, .	4.7	9
13	Locally causal dynamical triangulations in two dimensions. <i>Physical Review D</i> , 2015, 92, .	4.7	10
14	CAUSAL DYNAMICAL TRIANGULATIONS AND THE SEARCH FOR A THEORY OF QUANTUM GRAVITY. , 2015, , .	1	
15	Role of the extra coupling in the kinetic term in $\text{H} \circ \text{mml:math}$ $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ display="inline" $\langle \text{mml:mi} \rangle \hat{A}^{\text{TM}} \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ ava-Lifshitz gravity. <i>Physical Review D</i> , 2014, 90, .	4.7	16
16	Renormalization group flow in CDT. <i>Classical and Quantum Gravity</i> , 2014, 31, 165003.	4.0	51
17	Quantum Gravity via Causal Dynamical Triangulations. , 2014, , 723-741.		14
18	Causal Dynamical Triangulations without preferred foliation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 724, 155-159.	4.1	36

#	ARTICLE	IF	CITATIONS
19	Exploring torus universes in causal dynamical triangulations. <i>Physical Review D</i> , 2013, 88, .	4.7	10
20	De Sitter universe from causal dynamical triangulations without preferred foliation. <i>Physical Review D</i> , 2013, 88, .	4.7	24
21	CAUSAL DYNAMICAL TRIANGULATIONS AND THE SEARCH FOR A THEORY OF QUANTUM GRAVITY. <i>International Journal of Modern Physics D</i> , 2013, 22, 1330019.	2.1	18
22	The transfer matrix in four dimensional causal dynamical triangulations. , 2013, , .		3
23	Quantum spacetime, from a practitioner's point of view. , 2013, , .		3
24	Causal dynamical triangulations and the quest for quantum gravity. , 2012, , 321-337.		10
25	Second- and first-order phase transitions in causal dynamical triangulations. <i>Physical Review D</i> , 2012, 85, .	4.7	61
26	Nonperturbative quantum gravity. <i>Physics Reports</i> , 2012, 519, 127-210.	25.6	312
27	The semiclassical limit of causal dynamical triangulations. <i>Nuclear Physics B</i> , 2011, 849, 144-165.	2.5	60
28	Second-Order Phase Transition in Causal Dynamical Triangulations. <i>Physical Review Letters</i> , 2011, 107, 211303.	7.8	93
29	Deriving spacetime from first principles. <i>Annalen Der Physik</i> , 2010, 19, 186-195.	2.4	8
30	CDT meets HoÅ™avaâ€“Lifshitz gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 690, 413-419.	4.1	76
31	Geometry of the quantum universe. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 690, 420-426.	4.1	26
32	Coupling a point-like mass to quantum gravity with causal dynamical triangulations. <i>Classical and Quantum Gravity</i> , 2010, 27, 185025.	4.0	8
33	Shaken, but not stirredâ€”Potts model coupled to quantum gravity. <i>Nuclear Physics B</i> , 2009, 807, 251-264.	2.5	27
34	Quantum Gravity: the art of building spacetime. , 2009, , 341-359.		19
35	The emergence of spacetime or quantum gravity on your desktop. <i>Classical and Quantum Gravity</i> , 2008, 25, 114006.	4.0	54
36	Nonperturbative quantum de Sitter universe. <i>Physical Review D</i> , 2008, 78, .	4.7	106

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37	A string field theory based on causal dynamical triangulations. <i>Journal of High Energy Physics</i> , 2008, 2008, 032-032.	4.7	40
38	Planckian Birth of a Quantum de Sitter Universe. <i>Physical Review Letters</i> , 2008, 100, 091304.	7.8	116
39	THE EMERGENCE OF (EUCLIDEAN) DE SITTER SPACE-TIME. , 2008, , .		3
40	Putting a cap on causality violations in causal dynamical triangulations. <i>Journal of High Energy Physics</i> , 2007, 2007, 017-017.	4.7	9
41	(2+1)-dimensional quantum gravity as the continuum limit of causal dynamical triangulations. <i>Physical Review D</i> , 2007, 76, .	4.7	20
42	Quantum gravity and matter: counting graphs on causal dynamical triangulations. <i>General Relativity and Gravitation</i> , 2007, 39, 863-898.	2.0	15
43	The universe from scratch. <i>Contemporary Physics</i> , 2006, 47, 103-117.	1.8	95
44	Nonperturbative sum over topologies in 2D Lorentzian quantum gravity. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	1
45	Counting a black hole in Lorentzian product triangulations. <i>Classical and Quantum Gravity</i> , 2006, 23, 3849-3878.	4.0	27
46	Semiclassical universe from first principles. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 607, 205-213.	4.1	96
47	The Spectral Dimension of the Universe is Scale Dependent. <i>Physical Review Letters</i> , 2005, 95, 171301.	7.8	380
48	Reconstructing the Universe. <i>Physical Review D</i> , 2005, 72, .	4.7	276
49	Emergence of a 4D World from Causal Quantum Gravity. <i>Physical Review Letters</i> , 2004, 93, 131301.	7.8	301
50	Nonperturbative 3D Lorentzian quantum gravity. <i>Physical Review D</i> , 2001, 64, .	4.7	80
51	A proper-time cure for the conformal sickness in quantum gravity. <i>Nuclear Physics B</i> , 2001, 606, 357-379.	2.5	64
52	Dynamically triangulating Lorentzian quantum gravity. <i>Nuclear Physics B</i> , 2001, 610, 347-382.	2.5	203
53	Discrete Lorentzian quantum gravity. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2001, 94, 96-107.	0.4	60
54	The relation between Euclidean and Lorentzian 2D quantum gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 475, 24-32.	4.1	35

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55	Nonperturbative Lorentzian Path Integral for Gravity. Physical Review Letters, 2000, 85, 924-927.		7.8	149
56	Crossing the $c=1$ barrier in 2D Lorentzian quantum gravity. Physical Review D, 2000, 61, .		4.7	34
57	New perspective on matter coupling in 2D quantum gravity. Physical Review D, 1999, 60, .		4.7	50
58	Euclidean and Lorentzian quantum gravity—lessons from two dimensions. Chaos, Solitons and Fractals, 1999, 10, 177-195.		5.1	33
59	Non-perturbative Lorentzian quantum gravity, causality and topology change. Nuclear Physics B, 1998, 536, 407-434.		2.5	261
60	Discrete Approaches to Quantum Gravity in Four Dimensions. Living Reviews in Relativity, 1998, 1, 13.		26.7	142
61	New loop representations for 21 gravity. Classical and Quantum Gravity, 1994, 11, 2417-2434.		4.0	22
62	Loop approaches to gauge field theories. Theoretical and Mathematical Physics(Russian Federation), 1992, 93, 1415-1432.		0.9	9