

Benjamin Knorr

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,030
citations

394421

19
h-index

580821

25
g-index

25
all docs

25
docs citations

25
times ranked

333
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravitational Two-Loop Counterterm Is Asymptotically Safe. <i>Physical Review Letters</i> , 2016, 116, 211302.	7.8	111
2	Local quantum gravity. <i>Physical Review D</i> , 2015, 92, .	4.7	103
3	Global flows in quantum gravity. <i>Physical Review D</i> , 2016, 93, .	4.7	93
4	Generalized parametrization dependence in quantum gravity. <i>Physical Review D</i> , 2015, 92, .	4.7	86
5	Resolving Spacetime Singularities within Asymptotic Safety. <i>Physical Review Letters</i> , 2019, 123, 101301.	7.8	66
6	Form factors in asymptotic safety: conceptual ideas and computational toolbox. <i>Classical and Quantum Gravity</i> , 2019, 36, 234001.	4.0	65
7	Global solutions of functional fixed point equations via pseudospectral methods. <i>Physical Review D</i> , 2015, 91, .	4.7	57
8	Correlation functions on a curved background. <i>Physical Review D</i> , 2017, 96, .	4.7	49
9	Ising and Gross-Neveu model in next-to-leading order. <i>Physical Review B</i> , 2016, 94, .	3.2	44
10	Solving functional flow equations with pseudospectral methods. <i>Physical Review D</i> , 2016, 94, .	4.7	44
11	Finite Quantum Gravity Amplitudes: No Strings Attached. <i>Physical Review Letters</i> , 2020, 125, 181301.	7.8	38
12	Critical chiral Heisenberg model with the functional renormalization group. <i>Physical Review B</i> , 2018, 97, .	3.2	35
13	Towards Reconstructing the Quantum Effective Action of Gravity. <i>Physical Review Letters</i> , 2018, 121, 161304.	7.8	35
14	Infinite order quantum-gravitational correlations. <i>Classical and Quantum Gravity</i> , 2018, 35, 115005.	4.0	33
15	Lorentz symmetry is relevant. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 792, 142-148.	4.1	30
16	Convergence of derivative expansion in supersymmetric functional RG flows. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	23
17	Non-Perturbative Propagators in Quantum Gravity. <i>Universe</i> , 2021, 7, 216.	2.5	22
18	Graviton-mediated scattering amplitudes from the quantum effective action. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	21

#	ARTICLE	IF	CITATIONS
19	The derivative expansion in asymptotically safe quantum gravity: general setup and quartic order. SciPost Physics Core, 2021, 4, .	2.8	18
20	Momentum dependence of quantum critical Dirac systems. Physical Review D, 2019, 99, .	4.7	14
21	Lessons from conformally reduced quantum gravity. Classical and Quantum Gravity, 2021, 38, 065003.	4.0	11
22	Exact solutions and residual regulator dependence in functional renormalisation group flows. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 275401.	2.1	6
23	Scattering amplitudes in affine gravity. Physical Review D, 2021, 103, .	4.7	4
24	One-Loop Renormalization of Cubic Gravity in Six Dimensions. Physical Review Letters, 2022, 128, 161301.	7.8	1