

Roberto Percacci

List of Publications by Year in descending order

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96
papers

4,765
citations

101543

36
h-index

95266

68
g-index

98
all docs

98
docs citations

98
times ranked

717
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the ultraviolet properties of gravity with a Wilsonian renormalization group equation. <i>Annals of Physics</i> , 2009, 324, 414-469.	2.8	440
2	Fixed Points of Higher-Derivative Gravity. <i>Physical Review Letters</i> , 2006, 97, 221301.	7.8	240
3	The running gravitational couplings. <i>Classical and Quantum Gravity</i> , 1998, 15, 3449-3468.	4.0	220
4	ULTRAVIOLET PROPERTIES OF $f(R)$ -GRAVITY. <i>International Journal of Modern Physics A</i> , 2008, 23, 143-150.	1.5	216
5	Matter matters in asymptotically safe quantum gravity. <i>Physical Review D</i> , 2014, 89, .	4.7	178
6	Asymptotic safety of gravity coupled to matter. <i>Physical Review D</i> , 2003, 68, .	4.7	170
7	Constraints on matter from asymptotic safety. <i>Physical Review D</i> , 2003, 67, .	4.7	151
8	Critical Reflections on Asymptotically Safe Gravity. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	124
9	Search of scaling solutions in scalar-tensor gravity. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	109
10	Renormalization group flow in scalar-tensor theories: I. <i>Classical and Quantum Gravity</i> , 2010, 27, 075001.	4.0	103
11	Gravitational corrections to Yukawa systems. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 689, 90-94.	4.1	99
12	The Higgs phenomenon in quantum gravity. <i>Nuclear Physics B</i> , 1991, 353, 271-290.	2.5	97
13	Flow equation for $f(R)$ gravity. <i>Physical Review D</i> , 2015, 92, .	4.7	97
14	Renormalization group equation and scaling solutions for $f(R)$ gravity in exponential parametrization. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	82
15	Generalized non-linear $f(R)$ -models in curved space and spontaneous compactification. <i>Nuclear Physics B</i> , 1980, 165, 351-364.	2.5	80
16	Topologically massive planar universes with constant twist. <i>Annals of Physics</i> , 1987, 176, 344-358.	2.8	77
17	Inflationary solutions in asymptotically safe $f(R)$ theories. <i>Classical and Quantum Gravity</i> , 2011, 28, 145026.	4.0	71
18	Asymptotic safety in $O(N)$ scalar models coupled to gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 753, 274-281.	4.1	70

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19	The renormalization group and Weyl invariance. <i>Classical and Quantum Gravity</i> , 2013, 30, 115015.	4.0	68
20	Asymptotic safety in an interacting system of gravity and scalar matter. <i>Physical Review D</i> , 2016, 93, .	4.7	68
21	Higher derivative gravity and asymptotic safety in diverse dimensions. <i>Classical and Quantum Gravity</i> , 2014, 31, 015024.	4.0	67
22	On the ultraviolet behaviour of Newton's constant. <i>Classical and Quantum Gravity</i> , 2004, 21, 5035-5041.	4.0	63
23	New class of ghost- and tachyon-free metric affine gravities. <i>Physical Review D</i> , 2020, 101, .	4.7	63
24	Functional renormalization with fermions and tetrads. <i>Physical Review D</i> , 2013, 87, .	4.7	57
25	Gauges and functional measures in quantum gravity I: Einstein theory. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	54
26	Fixed points of nonlinear sigma models in $d > 2$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 672, 280-283.	4.1	51
27	Kaluza-Klein theories on bundles with homogeneous fibers. I. <i>Journal of Mathematical Physics</i> , 1983, 24, 807-814.	1.1	48
28	Further evidence for a gravitational fixed point. <i>Physical Review D</i> , 2006, 73, .	4.7	48
29	Conformally reduced quantum gravity revisited. <i>Physical Review D</i> , 2009, 80, .	4.7	48
30	Unimodular quantum gravity and the cosmological constant. <i>Foundations of Physics</i> , 2018, 48, 1364-1379.	1.3	46
31	The background scale Ward identity in quantum gravity. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	45
32	Spinors and diffeomorphisms. <i>Communications in Mathematical Physics</i> , 1986, 106, 691-704.	2.2	42
33	Asymptotic safety. , 0, , 111-128.		42
34	Consistency of matter models with asymptotically safe quantum gravity. <i>Canadian Journal of Physics</i> , 2015, 93, 988-994.	1.1	42
35	Gauges and functional measures in quantum gravity II: higher-derivative gravity. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	40
36	Path integral of unimodular gravity. <i>Physical Review D</i> , 2018, 97, .	4.7	37

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37	Asymptotic safety, emergence and minimal length. <i>Classical and Quantum Gravity</i> , 2010, 27, 245026.	4.0	36
38	Quantum gravity with torsion and non-metricity. <i>Classical and Quantum Gravity</i> , 2015, 32, 195019.	4.0	36
39	Computing the effective action with the functional renormalization group. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	36
40	Average effective potential for the conformal factor. <i>Nuclear Physics B</i> , 1995, 436, 141-160.	2.5	35
41	Gravi-weak unification. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 075405.	2.1	35
42	Renormalization group flow of Weyl invariant dilaton gravity. <i>New Journal of Physics</i> , 2011, 13, 125013.	2.9	35
43	One loop beta functions and fixed points in higher derivative sigma models. <i>Physical Review D</i> , 2010, 81, .	4.7	34
44	Towards the determination of the dimension of the critical surface in asymptotically safe gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 810, 135773.	4.1	34
45	Chirality in unified theories of gravity. <i>Physical Review D</i> , 2010, 81, .	4.7	33
46	Gravity and unification: a review. <i>Classical and Quantum Gravity</i> , 2018, 35, 143001.	4.0	33
47	The heat-kernel and the average effective potential. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 356, 205-210.	4.1	32
48	Ultraviolet fixed points in conformal gravity and general quadratic theories. <i>Classical and Quantum Gravity</i> , 2016, 33, 035001.	4.0	31
49	Gravity with more or less gauging. <i>Classical and Quantum Gravity</i> , 2018, 35, 195009.	4.0	31
50	Quark masses and mixings in minimally parameterized UV completions of the Standard Model. <i>Annals of Physics</i> , 2020, 421, 168282.	2.8	30
51	Fermions and Goldstone bosons in an asymptotically safe model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 705, 388-392.	4.1	28
52	Renormalization-group flow of the dilaton potential. <i>Physical Review D</i> , 1995, 52, 896-911.	4.7	27
53	Wicked metrics. <i>Classical and Quantum Gravity</i> , 2019, 36, 105008.	4.0	26
54	Modified dispersion relations from the renormalization group of gravity. <i>Classical and Quantum Gravity</i> , 2007, 24, 3995-4008.	4.0	25

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55	Metric-Affine Gravity as an effective field theory. Annals of Physics, 2022, 438, 168757.	2.8	25
56	Asymptotic safety and the gauged SU(N) nonlinear σ -model. Physical Review D, 2011, 83, .	4.7	24
57	Canonical algebra of GL(4)-invariant gravity. Classical and Quantum Gravity, 1990, 7, 975-984.	4.0	21
58	Palatini formalism and new canonical variables for GL(4)-invariant gravity. Classical and Quantum Gravity, 1990, 7, 1805-1818.	4.0	20
59	One-loop beta functions in topologically massive gravity. Classical and Quantum Gravity, 2010, 27, 155009.	4.0	20
60	$\hat{\Gamma}^2$ functions of a scalar theory coupled to gravity. Physical Review D, 1995, 52, 5787-5796.	4.7	19
61	Mean-field quantum gravity. Physical Review D, 1992, 46, 1566-1579.	4.7	18
62	The renormalization group, systems of units and the hierarchy problem. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 4895-4913.	2.1	18
63	On the topological mass in three dimensional gravity. Annals of Physics, 1987, 177, 27-37.	2.8	17
64	Quantization and fixed points of non-integrable Weyl theory. Classical and Quantum Gravity, 2014, 31, 115005.	4.0	17
65	Split Weyl transformations in quantum gravity. Physical Review D, 2017, 96, .	4.7	17
66	Can quantum fluctuations differentiate between standard and unimodular gravity?. Journal of High Energy Physics, 2021, 2021, 1.	4.7	17
67	In search of a UV completion of the standard model $\hat{\epsilon}^{\text{TM}}$ 378,000 models that don't work. Journal of High Energy Physics, 2018, 2018, 1.	4.7	16
68	Towards metric-affine quantum gravity. International Journal of Geometric Methods in Modern Physics, 2020, 17, 2040003.	2.0	16
69	$\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{stretchy}=\text{"false"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:msubsup} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$	4.7	15
70	Quantum Fields without Wick Rotation. Symmetry, 2019, 11, 373.	2.2	15
71	On classicalization in nonlinear sigma models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 711, 184-189.	4.1	14
72	Scale-dependent Planck mass and Higgs VEV from holography and functional renormalization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 710, 472-477.	4.1	13

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73	Trace anomaly and infrared cutoffs. Physical Review D, 2019, 99, .	4.7	13
74	Functional renormalization and the \overline{MS} scheme. Physical Review D, 2021, 103, .	4.7	13
75	Electroweak Parameters from a Fixed Point Condition. Physical Review Letters, 2011, 107, 021803.	7.8	11
76	ON TARGET SPACE DUALITY IN p-BRANES. Modern Physics Letters A, 1995, 10, 441-450.	1.2	10
77	Mixing internal and spacetime transformations: some examples and counterexamples. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 335403.	2.1	10
78	Diffeomorphisms, orientation, and pin structures in two dimensions. Journal of Mathematical Physics, 1988, 29, 580-593.	1.1	8
79	Global definition of nonlinear sigma model and some consequences. Journal of Mathematical Physics, 1981, 22, 1892-1895.	1.1	7
80	GL(3)-invariant gravity without metric. Classical and Quantum Gravity, 1991, 8, 273-277.	4.0	7
81	Coleman-Weinberg effect in quantum gravity. Classical and Quantum Gravity, 1991, 8, L193-L197.	4.0	7
82	Topology and fractional spin in the (2+1)-dimensional \bar{f} model. Physical Review D, 1991, 43, 1375-1384.	4.7	7
83	Hamiltonian methods for nonlinear sigma models. Journal of Mathematical Physics, 1989, 30, 2951-2962.	1.1	6
84	Functional renormalization of N scalars with O(N) invariance. Physical Review D, 2013, 88, .	4.7	6
85	Beta functions of topologically massive supergravity. Journal of High Energy Physics, 2014, 2014, 1.	4.7	6
86	On exact proper time Wilsonian RG flows. European Physical Journal C, 2020, 80, 1.	3.9	5
87	Dynamical diffeomorphisms. Classical and Quantum Gravity, 2021, 38, 115011.	4.0	4
88	Limit of vanishing regulator in the functional renormalization group. Physical Review D, 2021, 104, .	4.7	4
89	Absence of topological effects in the gauged SU(2) nonlinear \bar{f} model in 2+1 dimensions. Physical Review D, 1987, 36, 2520-2526.	4.7	3
90	Running of Planck mass and Higgs VEV in holographic vs. 4-dimensional RG. Journal of Physics: Conference Series, 2012, 343, 012098.	0.4	3

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91	Gauge group of gravity, spinors, and anomalies. International Journal of Theoretical Physics, 1986, 25, 493-507.	1.2	2
92	Unified theory in four dimensions. Classical and Quantum Gravity, 1993, 10, S245-S246.	4.0	2
93	Global aspects of p-branes. Journal of Geometry and Physics, 1995, 15, 369-380.	1.4	2
94	YANG-MILLS VACUUM STRUCTURE AND QUANTUM GRAVITY. Modern Physics Letters A, 1996, 11, 1807-1814.	1.2	1
95	General relativity as a soldered nonlinear sigma model. General Relativity and Gravitation, 1982, 14, 1043-1049.	2.0	0
96	Editorial for the Special Issue "Quantum Fields" From Fundamental Concepts to Phenomenological Questions. Universe, 2020, 6, 235.	2.5	0