

# Roberto Percacci

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4002340/publications.pdf>

Version: 2024-02-01

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	Metric-Affine Gravity as an effective field theory. <i>Annals of Physics</i> , 2022, 438, 168757.	2.8	25
2	Functional renormalization and the $\overline{MS}$ scheme. <i>Physical Review D</i> , 2021, 103, .	4.7	13
3	Dynamical diffeomorphisms. <i>Classical and Quantum Gravity</i> , 2021, 38, 115011.	4.0	4
4	Limit of vanishing regulator in the functional renormalization group. <i>Physical Review D</i> , 2021, 104, .	4.7	4
5	Can quantum fluctuations differentiate between standard and unimodular gravity?. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	17
6	Quark masses and mixings in minimally parameterized UV completions of the Standard Model. <i>Annals of Physics</i> , 2020, 421, 168282.	2.8	30
7	Critical Reflections on Asymptotically Safe Gravity. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	124
8	Towards metric-affine quantum gravity. <i>International Journal of Geometric Methods in Modern Physics</i> , 2020, 17, 2040003.	2.0	16
9	Editorial for the Special Issue “Quantum Fields” From Fundamental Concepts to Phenomenological Questions. <i>Universe</i> , 2020, 6, 235.	2.5	0
10	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
11	On exact proper time Wilsonian RG flows. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	5
12	New class of ghost- and tachyon-free metric affine gravities. <i>Physical Review D</i> , 2020, 101, .	4.7	63
13	Trace anomaly and infrared cutoffs. <i>Physical Review D</i> , 2019, 99, .	4.7	13
14	Quantum Fields without Wick Rotation. <i>Symmetry</i> , 2019, 11, 373.	2.2	15
15	Wicked metrics. <i>Classical and Quantum Gravity</i> , 2019, 36, 105008.	4.0	26
16	Path integral of unimodular gravity. <i>Physical Review D</i> , 2018, 97, .	4.7	37
17	In search of a UV completion of the standard model – 378,000 models that don’t work. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	16
18	Gravity with more or less gauging. <i>Classical and Quantum Gravity</i> , 2018, 35, 195009.	4.0	31

#	ARTICLE	IF	CITATIONS
19	$\left\langle \frac{1}{R} \right\rangle_{\text{mrow}} = \frac{15}{4.7}$	4.7	15
20	Unimodular quantum gravity and the cosmological constant. Foundations of Physics, 2018, 48, 1364-1379.	1.3	46
21	Gravity and unification: a review. Classical and Quantum Gravity, 2018, 35, 143001.	4.0	33
22	Gauges and functional measures in quantum gravity II: higher-derivative gravity. European Physical Journal C, 2017, 77, 1.	3.9	40
23	The background scale Ward identity in quantum gravity. European Physical Journal C, 2017, 77, 1.	3.9	45
24	Split Weyl transformations in quantum gravity. Physical Review D, 2017, 96, .	4.7	17
25	Gauges and functional measures in quantum gravity I: Einstein theory. Journal of High Energy Physics, 2016, 2016, 1.	4.7	54
26	Asymptotic safety in an interacting system of gravity and scalar matter. Physical Review D, 2016, 93, .	4.7	68
27	Asymptotic safety in $O(N)$ scalar models coupled to gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 274-281.	4.1	70
28	Renormalization group equation and scaling solutions for $f(R)$ gravity in exponential parametrization. European Physical Journal C, 2016, 76, 1.	3.9	82
29	Computing the effective action with the functional renormalization group. European Physical Journal C, 2016, 76, 1.	3.9	36
30	Ultraviolet fixed points in conformal gravity and general quadratic theories. Classical and Quantum Gravity, 2016, 33, 035001.	4.0	31
31	Flow equation for $\left\langle \frac{1}{R} \right\rangle_{\text{mrow}} = \frac{15}{4.7}$ Physical Review D, 2015, 92, .	4.7	17
32	Search of scaling solutions in scalar-tensor gravity. European Physical Journal C, 2015, 75, 1.	3.9	109
33	Quantum gravity with torsion and non-metricity. Classical and Quantum Gravity, 2015, 32, 195019.	4.0	36
34	Consistency of matter models with asymptotically safe quantum gravity. Canadian Journal of Physics, 2015, 93, 988-994.	1.1	42
35	Matter matters in asymptotically safe quantum gravity. Physical Review D, 2014, 89, .	4.7	178
36	Higher derivative gravity and asymptotic safety in diverse dimensions. Classical and Quantum Gravity, 2014, 31, 015024.	4.0	67

#	ARTICLE	IF	CITATIONS
37	Beta functions of topologically massive supergravity. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	6
38	Quantization and fixed points of non-integrable Weyl theory. <i>Classical and Quantum Gravity</i> , 2014, 31, 115005.	4.0	17
39	Functional renormalization with fermions and tetrads. <i>Physical Review D</i> , 2013, 87, .	4.7	57
40	The renormalization group and Weyl invariance. <i>Classical and Quantum Gravity</i> , 2013, 30, 115015.	4.0	68
41	Functional renormalization of N scalars with $O(N)$ invariance. <i>Physical Review D</i> , 2013, 88, .	4.7	6
42	Running of Planck mass and Higgs VEV in holographic vs. 4-dimensional RG. <i>Journal of Physics: Conference Series</i> , 2012, 343, 012098.	0.4	3
43	Scale-dependent Planck mass and Higgs VEV from holography and functional renormalization. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 710, 472-477.	4.1	13
44	On classicalization in nonlinear sigma models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 711, 184-189.	4.1	14
45	Asymptotic safety and the gauged $SU(N)$ nonlinear $\sigma$ model. <i>Physical Review D</i> , 2011, 83, .	4.7	24
46	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
47	Inflationary solutions in asymptotically safe $f(R)$ ( $R^2$ ) theories. <i>Classical and Quantum Gravity</i> , 2011, 28, 145026.	4.0	71
48	Electroweak and T Parameters from a Fixed Point Condition. <i>Physical Review Letters</i> , 2011, 107, 021803.	7.8	11
49	Renormalization group flow of Weyl invariant dilaton gravity. <i>New Journal of Physics</i> , 2011, 13, 125013.	2.9	35
50	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
51	One-loop beta functions in topologically massive gravity. <i>Classical and Quantum Gravity</i> , 2010, 27, 155009.	4.0	20
52	Renormalization group flow in scalar-tensor theories: I. <i>Classical and Quantum Gravity</i> , 2010, 27, 075001.	4.0	103
53	Asymptotic safety, emergence and minimal length. <i>Classical and Quantum Gravity</i> , 2010, 27, 245026.	4.0	36
54	Chirality in unified theories of gravity. <i>Physical Review D</i> , 2010, 81, .	4.7	33

#	ARTICLE	IF	CITATIONS
55	One loop beta functions and fixed points in higher derivative sigma models. Physical Review D, 2010, 81, .	4.7	34
56	Fixed points of nonlinear sigma models in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"} \rangle \langle \text{mml:mi} \text{d} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \text{&gt;} \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle .$ Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 672, 280-283.	4.1	51
57	Investigating the ultraviolet properties of gravity with a Wilsonian renormalization group equation. Annals of Physics, 2009, 324, 414-469.	2.8	440
58	Conformally reduced quantum gravity revisited. Physical Review D, 2009, 80, .	4.7	48
59	ULTRAVIOLET PROPERTIES OF $f(R)$ -GRAVITY. International Journal of Modern Physics A, 2008, 23, 143-150.	1.5	216
60	Mixing internal and spacetime transformations: some examples and counterexamples. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 335403.	2.1	10
61	Gravi-weak unification. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 075405.	2.1	35
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	Modified dispersion relations from the renormalization group of gravity. Classical and Quantum Gravity, 2007, 24, 3995-4008.	4.0	25
64	Further evidence for a gravitational fixed point. Physical Review D, 2006, 73, .	4.7	48
65	Fixed Points of Higher-Derivative Gravity. Physical Review Letters, 2006, 97, 221301.	7.8	240
66	On the ultraviolet behaviour of Newton's constant. Classical and Quantum Gravity, 2004, 21, 5035-5041.	4.0	63
67	Constraints on matter from asymptotic safety. Physical Review D, 2003, 67, .	4.7	151
68	Asymptotic safety of gravity coupled to matter. Physical Review D, 2003, 68, .	4.7	170
69	The running gravitational couplings. Classical and Quantum Gravity, 1998, 15, 3449-3468.	4.0	220
70	YANG-MILLS VACUUM STRUCTURE AND QUANTUM GRAVITY. Modern Physics Letters A, 1996, 11, 1807-1814.	1.2	1
71	The heat-kernel and the average effective potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 356, 205-210.	4.1	32
72	Global aspects of p-branes. Journal of Geometry and Physics, 1995, 15, 369-380.	1.4	2

#	ARTICLE	IF	CITATIONS
73	$\hat{I}^2$ functions of a scalar theory coupled to gravity. <i>Physical Review D</i> , 1995, 52, 5787-5796.	4.7	19
74	Renormalization-group flow of the dilaton potential. <i>Physical Review D</i> , 1995, 52, 896-911.	4.7	27
75	ON TARGET SPACE DUALITY IN p-BRANES. <i>Modern Physics Letters A</i> , 1995, 10, 441-450.	1.2	10
76	Average effective potential for the conformal factor. <i>Nuclear Physics B</i> , 1995, 436, 141-160.	2.5	35
77	Unified theory in four dimensions. <i>Classical and Quantum Gravity</i> , 1993, 10, S245-S246.	4.0	2
78	Mean-field quantum gravity. <i>Physical Review D</i> , 1992, 46, 1566-1579.	4.7	18
79	The Higgs phenomenon in quantum gravity. <i>Nuclear Physics B</i> , 1991, 353, 271-290.	2.5	97
80	GL(3)-invariant gravity without metric. <i>Classical and Quantum Gravity</i> , 1991, 8, 273-277.	4.0	7
81	Coleman-Weinberg effect in quantum gravity. <i>Classical and Quantum Gravity</i> , 1991, 8, L193-L197.	4.0	7
82	Topology and fractional spin in the (2+1)-dimensional $\mathbb{Z}_2$ model. <i>Physical Review D</i> , 1991, 43, 1375-1384.	4.7	7
83	Canonical algebra of GL(4)-invariant gravity. <i>Classical and Quantum Gravity</i> , 1990, 7, 975-984.	4.0	21
84	Palatini formalism and new canonical variables for GL(4)-invariant gravity. <i>Classical and Quantum Gravity</i> , 1990, 7, 1805-1818.	4.0	20
85	Hamiltonian methods for nonlinear sigma models. <i>Journal of Mathematical Physics</i> , 1989, 30, 2951-2962.	1.1	6
86	Diffeomorphisms, orientation, and pin structures in two dimensions. <i>Journal of Mathematical Physics</i> , 1988, 29, 580-593.	1.1	8
87	Absence of topological effects in the gauged SU(2) nonlinear $\mathbb{Z}_2$ model in 2+1 dimensions. <i>Physical Review D</i> , 1987, 36, 2520-2526.	4.7	3
88	Topologically massive planar universes with constant twist. <i>Annals of Physics</i> , 1987, 176, 344-358.	2.8	77
89	On the topological mass in three dimensional gravity. <i>Annals of Physics</i> , 1987, 177, 27-37.	2.8	17
90	Gauge group of gravity, spinors, and anomalies. <i>International Journal of Theoretical Physics</i> , 1986, 25, 493-507.	1.2	2

#	ARTICLE	IF	CITATIONS
91	Spinors and diffeomorphisms. Communications in Mathematical Physics, 1986, 106, 691-704.	2.2	42
92	Kaluza-Klein theories on bundles with homogeneous fibers. I. Journal of Mathematical Physics, 1983, 24, 807-814.	1.1	48
93	General relativity as a soldered nonlinear sigma model. General Relativity and Gravitation, 1982, 14, 1043-1049.	2.0	0
94	Global definition of nonlinear sigma model and some consequences. Journal of Mathematical Physics, 1981, 22, 1892-1895.	1.1	7
95	Generalized non-linear $\tilde{f}$ -models in curved space and spontaneous compactification. Nuclear Physics B, 1980, 165, 351-364.	2.5	80
96	Asymptotic safety. , 0, , 111-128.		42