

# Christof Wetterich

## List of Publications by Year in descending order

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326  
papers

19,126  
citations

17440

63  
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g-index

330  
all docs

330  
docs citations

330  
times ranked

8194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosmology and the fate of dilatation symmetry. Nuclear Physics B, 1988, 302, 668-696.	2.5	2,231
2	Exact evolution equation for the effective potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 301, 90-94.	4.1	1,693
3	Proton lifetime and fermion masses in an SO(10) model. Nuclear Physics B, 1981, 181, 287-300.	2.5	1,257
4	Non-perturbative renormalization flow in quantum field theory and statistical physics. Physics Reports, 2002, 363, 223-386.	25.6	1,183
5	Neutrino masses and the scale of B-L violation. Nuclear Physics B, 1981, 187, 343-375.	2.5	409
6	Prethermalization. Physical Review Letters, 2004, 93, 142002.	7.8	383
7	Effective average action for gauge theories and exact evolution equations. Nuclear Physics B, 1994, 417, 181-214.	2.5	323
8	Average action and the renormalization group equations. Nuclear Physics B, 1991, 352, 529-584.	2.5	291
9	Asymptotic safety of gravity and the Higgs boson mass. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 683, 196-200.	4.1	287
10	Critical exponents from the effective average action. Nuclear Physics B, 1994, 422, 541-592.	2.5	267
11	Cosmologies with variable Newton's "constant". Nuclear Physics B, 1988, 302, 645-667.	2.5	222
12	Adjusting the cosmological constant dynamically: Cosmons and a new force weaker than gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 195, 183-190.	4.1	216
13	Phenomenological parameterization of quintessence. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 594, 17-22.	4.1	193
14	Chemical freeze-out and the QCD phase transition temperature. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 596, 61-69.	4.1	193
15	Renormalization flow of bound states. Physical Review D, 2002, 65, .	4.7	156
16	Cosmology from higher-dimensional gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 129, 387-391.	4.1	148
17	Effective action for the chiral quark-meson model. Physical Review D, 1996, 53, 5142-5175.	4.7	146
18	Quintessence cosmologies with a growing matter component. Physical Review D, 2008, 78, .	4.7	146

#	ARTICLE	IF	CITATIONS
19	Density-dependent couplings and astrophysical bounds on light scalar particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 228, 264-272.	4.1	137
20	Exact evolution equation for scalar electrodynamics. Nuclear Physics B, 1994, 427, 291-324.	2.5	131
21	Running gauge coupling in three dimensions and the electroweak phase transition. Nuclear Physics B, 1993, 408, 91-130.	2.5	122
22	Average action for the Higgs model with abelian gauge symmetry. Nuclear Physics B, 1993, 391, 147-175.	2.5	122
23	Modification of Predictions of Grand Unified Theories in the Presence of Spontaneous Compactification. Physical Review Letters, 1984, 52, 875-878.	7.8	120
24	The average action for scalar fields near phase transitions. Zeitschrift für Physik C-Particles and Fields, 1993, 57, 451-469.	1.5	119
25	Growing neutrinos and cosmological selection. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 655, 201-208.	4.1	109
26	The high temperature phase transition for $\tilde{d}=4$ theories. Nuclear Physics B, 1993, 398, 659-696.	2.5	108
27	Nonperturbative renormalization flow and essential scaling for the Kosterlitz-Thouless transition. Physical Review B, 2001, 64, .	3.2	107
28	Quintessence and the Separation of Cosmic Microwave Background Peaks. Astrophysical Journal, 2001, 559, 501-506.	4.5	101
29	Two flavor chiral phase transition from nonperturbative flow equations. Physical Review D, 1999, 59, .	4.7	95
30	Inflation with higher dimensional gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 152, 51-55.	4.1	93
31	Average action for the N-component $\tilde{d}=4$ theory. Nuclear Physics B, 1990, 334, 506-526.	2.5	91
32	Phase diagram of superconductors from nonperturbative flow equations. Physical Review B, 1996, 53, 5734-5757.	3.2	90
33	Spontaneous compactification in higher dimensional gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 113, 377-381.	4.1	87
34	Gluon condensation in nonperturbative flow equations. Physical Review D, 1997, 56, 7893-7916.	4.7	83
35	Universality of spontaneous chiral symmetry breaking in gauge theories. Physical Review D, 2004, 69, .	4.7	83
36	Scale dependence of the average potential around the maximum in $\tilde{d}=4$ theories. Nuclear Physics B, 1992, 383, 197-217.	2.5	82

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37	Exact flow equation for composite operators. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680, 371-376.	4.1	82
38	Variable gravity Universe. Physical Review D, 2014, 89, .	4.7	81
39	Phase transition and critical behavior of the $d=3$ Gross-Neveu model. Physical Review B, 2002, 66, .	3.2	80
40	Early Quintessence in Light of the Wilkinson Microwave Anisotropy Probe. Astrophysical Journal, 2003, 591, L75-L78.	4.5	80
41	Effective Nonlocal Euclidean Gravity. General Relativity and Gravitation, 1998, 30, 159-172.	2.0	79
42	Flow equations for the BCS-BEC crossover. Physical Review A, 2007, 76, .	2.5	79
43	How early is early dark energy?. Physical Review D, 2013, 87, .	4.7	79
44	Kosterlitz-Thouless Phase Transition in the Two Dimensional Linear $\sigma$ Model. Physical Review Letters, 1995, 75, 378-381.	7.8	77
45	Critical Exponents of the Gross-Neveu Model from the Effective Average Action. Physical Review Letters, 2001, 86, 958-961.	7.8	77
46	Crossover quintessence and cosmological history of fundamental "constants". Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 561, 10-16.	4.1	76
47	Probing quintessence with time variation of couplings. Journal of Cosmology and Astroparticle Physics, 2003, 2003, 002-002.	5.4	76
48	Temperature dependence of antiferromagnetic order in the Hubbard model. Physical Review B, 2004, 70, .	3.2	76
49	EFFECTIVE AVERAGE ACTION IN STATISTICAL PHYSICS AND QUANTUM FIELD THEORY. International Journal of Modern Physics A, 2001, 16, 1951-1982.	1.5	75
50	Natural quintessence?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 497, 281-288.	4.1	73
51	Structure formation and the time dependence of quintessence. Physical Review D, 2001, 64, .	4.7	73
52	Non-linear structure formation in cosmologies with early dark energy. Astronomy and Astrophysics, 2006, 454, 27-36.	5.1	72
53	Neutrino clustering in growing neutrino quintessence. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 663, 160-164.	4.1	72
54	Evolution equations for the quark-meson transition. Nuclear Physics B, 1994, 423, 137-167.	2.5	71

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55	Time evolution of the cosmological "constant". Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 188, 38-43.	4.1	70
56	Towards a renormalizable standard model without a fundamental Higgs scalar. Physical Review D, 2004, 69, .	4.7	70
57	Emergent scale symmetry: Connecting inflation and dark energy. Physical Review D, 2017, 96, .	4.7	70
58	Dimensional reduction of Weyl, Majorana and Majorana-Weyl spinors. Nuclear Physics B, 1983, 222, 20-44.	2.5	68
59	Kaluza-Klein solutions with non-compact internal spaces. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 166, 65-68.	4.1	68
60	Inflation from higher dimensions. Nuclear Physics B, 1987, 289, 787-809.	2.5	66
61	Exact and truncated dynamics in nonequilibrium field theory. Physical Review D, 2000, 63, .	4.7	66
62	Primordial nucleosynthesis as a probe of fundamental physics parameters. Physical Review D, 2007, 76, .	4.7	66
63	SOLVING NONPERTURBATIVE FLOW EQUATIONS. Modern Physics Letters A, 1995, 10, 2367-2379.	1.2	65
64	Flow equations without mean field ambiguity. Physical Review D, 2003, 68, .	4.7	65
65	Critical Equation of State from the Average Action. Physical Review Letters, 1996, 77, 873-876.	7.8	62
66	Dilaton quantum gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 298-302.	4.1	61
67	Chirality index and dimensional reduction of fermions. Nuclear Physics B, 1983, 223, 109-124.	2.5	60
68	Impact of three years of data from the Wilkinson Microwave Anisotropy Probe on cosmological models with dynamical dark energy. Physical Review D, 2007, 75, .	4.7	60
69	Higgs scalar potential in asymptotically safe quantum gravity. Physical Review D, 2019, 99, .	4.7	59
70	Particle-hole fluctuations in BCS-BEC crossover. Physical Review B, 2008, 78, .	3.2	58
71	Kaluza-Klein cosmology and the inflationary universe. Nuclear Physics B, 1985, 252, 309-320.	2.5	57
72	Nucleosynthesis and the variation of fundamental couplings. Physical Review D, 2004, 70, .	4.7	57

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73	On thermalization in classical scalar field theory. Nuclear Physics B, 2000, 587, 403-418.	2.5	55
74	Gauge hierarchy problem in asymptotically safe gravity – The resurgence mechanism. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 268-271.	4.1	55
75	Inflation, quintessence, and the origin of mass. Nuclear Physics B, 2015, 897, 111-178.	2.5	54
76	Massless spinors in more than four dimensions. Nuclear Physics B, 1983, 211, 177-188.	2.5	53
77	Improvement of the average action. Zeitschrift für Physik C-Particles and Fields, 1993, 60, 461-469.	1.5	53
78	Two-loop results from improved one loop computations. Zeitschrift für Physik C-Particles and Fields, 1995, 65, 519-535.	1.5	53
79	Fine-tuning problem and the renormalization group. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 140, 215-222.	4.1	52
80	Dimensional reduction of fermions in generalized gravity. Nuclear Physics B, 1984, 242, 473-502.	2.5	52
81	The large-N limit and the high-temperature phase transition for the $\mathbb{Z}_4$ theory. Nuclear Physics B, 1993, 401, 567-590.	2.5	51
82	Can structure formation influence the cosmological evolution?. Physical Review D, 2003, 67, .	4.7	51
83	Cosmon dark matter?. Physical Review D, 2002, 65, .	4.7	50
84	Universe without expansion. Physics of the Dark Universe, 2013, 2, 184-187.	4.9	49
85	Functional renormalization for quantum phase transitions with nonrelativistic bosons. Physical Review B, 2008, 77, .	3.2	48
86	Graviton fluctuations erase the cosmological constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 6-19.	4.1	48
87	Universality in phase transitions for ultracold fermionic atoms. Physical Review A, 2006, 73, .	2.5	47
88	On the spectrum of Kaluza-Klein theories with non-compact internal spaces. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 150, 347-351.	4.1	46
89	Quintessential Adjustment of the Cosmological Constant. Physical Review Letters, 2000, 85, 3339-3342.	7.8	46
90	Renormalization flow and universality for ultracold fermionic atoms. Physical Review A, 2007, 76, .	2.5	46

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91	Functional renormalization for Bose-Einstein condensation. <i>Physical Review A</i> , 2008, 77, .	2.5	46
92	Scaling solutions for dilaton quantum gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 769, 105-110.	4.1	46
93	The cosmological constant and non-compact internal spaces in Kaluza-Klein theories. <i>Nuclear Physics B</i> , 1985, 255, 480-494.	2.5	45
94	Gravity from spinors. <i>Physical Review D</i> , 2004, 70, .	4.7	45
95	Quadratic renormalization of the average potential and the naturalness of quadratic mass relations for the top quark. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1990, 48, 693-705.	1.5	44
96	Equation of state and coarse grained free energy for matrix models. <i>Nuclear Physics B</i> , 1997, 487, 675-720.	2.5	44
97	Non-perturbative unitarity and fictitious ghosts in quantum gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 811, 135911.	4.1	44
98	Gauge hierarchy due to strong interactions?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1981, 104, 269-276.	4.1	40
99	PHASE TRANSITION OF N-COMPONENT SUPERCONDUCTORS. <i>International Journal of Modern Physics A</i> , 1996, 11, 4273-4306.	1.5	40
100	Spinor gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 574, 269-275.	4.1	40
101	Efimov effect from functional renormalization. <i>Physical Review A</i> , 2009, 79, .	2.5	40
102	Functional renormalization for spontaneous symmetry breaking in the Hubbard model. <i>Physical Review B</i> , 2011, 83, .	3.2	40
103	Variable Planck mass from the gauge invariant flow equation. <i>Physical Review D</i> , 2019, 100, .	4.7	40
104	Coarse graining and first order phase transitions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 393, 387-394.	4.1	39
105	Gauge-invariant initial conditions and early time perturbations in quintessence universes. <i>Physical Review D</i> , 2003, 68, .	4.7	39
106	Functional renormalization for trion formation in ultracold fermion gases. <i>Physical Review A</i> , 2009, 79, .	2.5	39
107	Natural maximal $\hat{1}_{1/2} \hat{1}_{1/4} \hat{a} \hat{1}_{1/2}$ , mixing. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 451, 397-405.	4.1	37
108	Quantum-gravity predictions for the fine-structure constant. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 782, 198-201.	4.1	37

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109	Chiral fermion generations from higher-dimensional gravity. Nuclear Physics B, 1984, 244, 359-380.	2.5	36
110	Spinors in euclidean field theory, complex structures and discrete symmetries. Nuclear Physics B, 2011, 852, 174-234.	2.5	36
111	Quantum Liouville field theory as solution of a flow equation. Nuclear Physics B, 1997, 506, 483-520.	2.5	35
112	Critical phenomena in continuous dimension. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 582, 144-150.	4.1	35
113	Functional integral for ultracold fermionic atoms. Nuclear Physics B, 2007, 770, 206-272.	2.5	35
114	Phase structure of spin-imbalanced unitary Fermi gases. Physical Review A, 2015, 91, .	2.5	35
115	Left-right symmetric gauge models and possible existence of a neutral gauge boson with mass in the PETRA-PEP energy range. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1978, 73, 65-70.	4.1	34
116	SO(10) unification from higher dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 110, 379-384.	4.1	34
117	HIGH TEMPERATURE PHASE TRANSITIONS WITHOUT INFRARED DIVERGENCES. International Journal of Modern Physics A, 1994, 09, 4029-4061.	1.5	34
118	Time evolution of correlation functions in non-equilibrium field theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 430, 140-150.	4.1	34
119	Conformal Fixed Point, Cosmological Constant, and Quintessence. Physical Review Letters, 2003, 90, 231302.	7.8	34
120	Very large scale structures in growing neutrino quintessence. Physical Review D, 2010, 81, .	4.7	34
121	Primordial black holes from fifth forces. Physical Review D, 2018, 97, .	4.7	34
122	Effective quark interactions and QCD propagators. Physical Review D, 1998, 57, 1591-1604.	4.7	33
123	New phase of QED?. Physical Review D, 1988, 37, 2492-2498.	4.7	32
124	Time Evolution of Nonequilibrium Effective Action. Physical Review Letters, 1997, 78, 3598-3601.	7.8	32
125	Superfluid Bose gas in two dimensions. Physical Review A, 2009, 79, .	2.5	32
126	Chemical freeze-out in heavy ion collisions at large baryon densities. Nuclear Physics A, 2012, 890-891, 11-24.	1.5	32



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127	Primordial dark matter halos from fifth forces. <i>Physical Review D</i> , 2019, 100, .	4.7	32
128	Gauge hierarchies and the unification mass. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1979, 85, 52-56.	4.1	31
129	Chiral fermions in six-dimensional gravity. <i>Nuclear Physics B</i> , 1985, 253, 366-374.	2.5	31
130	Fermion mass predictions from higher dimensions. <i>Nuclear Physics B</i> , 1985, 261, 461-490.	2.5	31
131	Fermion masses from symmetry. <i>Nuclear Physics B</i> , 1987, 283, 237-267.	2.5	31
132	Are galaxies cosmon lumps?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 522, 5-9.	4.1	31
133	Neutrino lumps and the cosmic microwave background. <i>Physical Review D</i> , 2010, 82, .	4.7	31
134	The strongly interacting electroweak phase transition. <i>Nuclear Physics B</i> , 1995, 440, 171-188.	2.5	30
135	The chiral phase transition at high baryon density from nonperturbative flow equations. <i>European Physical Journal C</i> , 2000, 13, 323-329.	3.9	30
136	Quantum phase transition in Bose-Fermi mixtures. <i>Physical Review A</i> , 2011, 84, .	2.5	30
137	Where to look for solving the gauge hierarchy problem?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 718, 573-576.	4.1	30
138	Eternal Universe. <i>Physical Review D</i> , 2014, 90, .	4.7	30
139	Unique Translation between Hamiltonian Operators and Functional Integrals. <i>Physical Review Letters</i> , 2001, 86, 1-5.	7.8	29
140	Naturalness of exponential cosmon potentials and the cosmological constant problem. <i>Physical Review D</i> , 2008, 77, .	4.7	29
141	Modified Fermi sphere, pairing gap, and critical temperature for the BCS-BEC crossover. <i>Physical Review A</i> , 2010, 81, .	2.5	29
142	Quantum mechanics from classical statistics. <i>Annals of Physics</i> , 2010, 325, 852-898.	2.8	29
143	Gauge-invariant fields and flow equations for Yang-Mills theories. <i>Nuclear Physics B</i> , 2018, 934, 265-316.	2.5	29
144	Time evolution of correlation functions and thermalization. <i>Physical Review D</i> , 1999, 60, .	4.7	28

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145	Three-body loss in lithium from functional renormalization. <i>Physical Review A</i> , 2009, 79, .	2.5	28
146	Equation of state near the endpoint of the critical line. <i>Nuclear Physics B</i> , 1999, 562, 524-546.	2.5	27
147	Structure formation and backreaction in growing neutrino quintessence. <i>Physical Review D</i> , 2012, 85, .	4.7	27
148	The region of validity of homogeneous nucleation theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 467, 279-288.	4.1	26
149	Quark and Nuclear Matter in the Linear Chiral Meson Model. <i>International Journal of Modern Physics A</i> , 2003, 18, 3189-3219.	1.5	26
150	Dark energy cosmologies for codimension-two branes. <i>Nuclear Physics B</i> , 2005, 726, 75-92.	2.5	26
151	Coleman-Weinberg phase transition in two-scalar models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 348, 89-99.	4.1	25
152	Constraining quintessence with the new CMB data. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002, 528, 175-180.	4.1	25
153	Four-point vertex in the Hubbard model and partial bosonization. <i>Physical Review B</i> , 2010, 81, .	3.2	25
154	Cosmon inflation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 15-22.	4.1	25
155	Gauge-invariant flow equation. <i>Nuclear Physics B</i> , 2018, 931, 262-282.	2.5	25
156	Early dark energy in the pre- and postrecombination epochs. <i>Physical Review D</i> , 2021, 104, .	4.7	25
157	Fourth colour in $O(10)$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1980, 92, 304-308.	4.1	24
158	Rotation symmetry breaking condensate in a scalar theory. <i>Physical Review D</i> , 2000, 62, .	4.7	24
159	Antiferromagnetic gap in the Hubbard model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 605, 144-150.	4.1	24
160	Spontaneous Symmetry Breaking Origin for the Difference Between Time and Space. <i>Physical Review Letters</i> , 2005, 94, 011602.	7.8	24
161	Isotropization far from equilibrium. <i>Nuclear Physics B</i> , 2005, 727, 244-263.	2.5	24
162	Critical temperature and superfluid gap of the unitary Fermi gas from functional renormalization. <i>Physical Review A</i> , 2014, 89, .	2.5	24

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163	Gauge hierarchy in the presence of discrete symmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 87, 227-232.	4.1	23
164	Nonperturbative Analysis of the Coleman-Weinberg Phase Transition. Modern Physics Letters A, 1997, 12, 2287-2308.	1.2	23
165	Gluon-meson duality. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 462, 164-168.	4.1	23
166	Neutrino lumps in quintessence cosmology. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 665, 131-134.	4.1	23
167	Unifying cosmological and recent time variations of fundamental couplings. Physical Review D, 2008, 78, .	4.7	23
168	High temperature phase transition in two-scalar theories. Physical Review D, 1996, 53, 4552-4569.	4.7	22
169	Abelian Ward identity from the background field dependence of the effective action. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 380, 337-340.	4.1	22
170	Bosonic effective action for interacting fermions. Physical Review B, 2007, 75, .	3.2	22
171	Functional renormalization group for d-wave superconductivity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 367, 263-267.	2.1	22
172	Nonperturbative thermodynamics of an interacting Bose gas. Physical Review A, 2009, 79, .	2.5	22
173	Dimensional crossover of nonrelativistic bosons. Physical Review A, 2016, 93, .	2.5	22
174	Dynamics of neutrino lumps in growing neutrino quintessence. Physical Review D, 2016, 94, .	4.7	22
175	Phenomenology of geometrical flavour interactions at TeV energies. Nuclear Physics B, 1991, 365, 3-23.	2.5	21
176	Self-organizing criticality, large anomalous mass dimension and the gauge hierarchy problem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 282, 399-405.	4.1	21
177	Integrating out gluons in flow equations. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 139-162.	1.5	21
178	Spontaneously broken color. Physical Review D, 2001, 64, .	4.7	21
179	Functional renormalization group approach to the BCS-BEC crossover. Annalen Der Physik, 2010, 522, 615-656.	2.4	21
180	Oscillating non-linear large-scale structures in growing neutrino quintessence. Monthly Notices of the Royal Astronomical Society, 2011, 418, 214-229.	4.4	21

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181	Hot big bang or slow freeze?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 506-514.	4.1	21
182	Parity violating neutral currents in a left-right symmetric gauge model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1977, 69, 464-468.	4.1	20
183	Discrete symmetries in Kaluza-Klein theories. Nuclear Physics B, 1984, 234, 413-444.	2.5	20
184	Quark, lepton and neutrino masses in grand unified theories with local generation group. Nuclear Physics B, 1987, 292, 443-460.	2.5	20
185	Nonequilibrium time evolution in quantum field theory. Physical Review E, 1997, 56, 2687-2690.	2.1	20
186	The linear meson model and chiral perturbation theory. European Physical Journal C, 1998, 2, 557-567.	3.9	20
187	Dilatation Symmetry in Higher Dimensions and the Vanishing of the Cosmological Constant. Physical Review Letters, 2009, 102, 141303.	7.8	20
188	Emergence of quantum mechanics from classical statistics. Journal of Physics: Conference Series, 2009, 174, 012008.	0.4	20
189	Gauge symmetry from decoupling. Nuclear Physics B, 2017, 915, 135-167.	2.5	20
190	An SO(10) model with $54 + 126 + 10$ higgs. Nuclear Physics B, 1984, 243, 273-284.	2.5	19
191	Spontaneous symmetry breaking in the colored Hubbard model. Physical Review B, 2000, 62, 15471-15479.	3.2	19
192	Observational constraints on the dark energy density evolution. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 007-007.	5.4	19
193	Mass freezing in growing neutrino quintessence. Physical Review D, 2011, 83, .	4.7	19
194	Neutrino lump fluid in growing neutrino quintessence. Physical Review D, 2013, 87, .	4.7	19
195	Infrared limit of quantum gravity. Physical Review D, 2018, 98, .	4.7	19
196	Effective Scalar Potential in Asymptotically Safe Quantum Gravity. Universe, 2021, 7, 45.	2.5	19
197	Generation of d-wave coupling in the two-dimensional Hubbard model from functional renormalization. Physical Review B, 2009, 79, .	3.2	18
198	Quantum correlations for the metric. Physical Review D, 2017, 95, .	4.7	18

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199	Predictive power of grand unification from quantum gravity. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	18
200	Can inflation explain small density fluctuations in the universe?. <i>Nuclear Physics B</i> , 1989, 324, 141-156.	2.5	17
201	Effective linear meson model. <i>European Physical Journal C</i> , 1998, 1, 669-710.	3.9	17
202	Could the black hole singularity be a field singularity?. <i>International Journal of Modern Physics D</i> , 2020, 29, 2050026.	2.1	17
203	Classical stability for spontaneous compactification in higher derivative gravity. <i>Nuclear Physics B</i> , 1987, 289, 757-786.	2.5	16
204	Time variation of fundamental couplings and dynamical dark energy. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 038-038.	5.4	16
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