

Timothy Morris

List of Publications by Year in descending order

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53
papers

3,032
citations

172457

29
h-index

182427

51
g-index

53
all docs

53
docs citations

53
times ranked

533
citing authors

#	ARTICLE	IF	CITATIONS
1	THE EXACT RENORMALIZATION GROUP AND APPROXIMATE SOLUTIONS. International Journal of Modern Physics A, 1994, 09, 2411-2449.	1.5	736
2	Derivative expansion of the exact renormalization group. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 329, 241-248.	4.1	248
3	Elements of the Continuous Renormalization Group. Progress of Theoretical Physics Supplement, 1998, 131, 395-414.	0.1	167
4	On truncations of the exact renormalization group. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 334, 355-362.	4.1	166
5	Asymptotic safety in the $f(R)$ approximation. Journal of High Energy Physics, 2013, 2013, 1.	4.7	118
6	Derivative expansion of the renormalization group in $O(N)$ scalar field theory. Nuclear Physics B, 1998, 509, 637-661.	2.5	81
7	Gauge invariance, the quantum action principle, and the renormalization group. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 378, 213-221.	4.1	76
8	A gauge invariant exact renormalisation group. (I). Nuclear Physics B, 2000, 573, 97-126.	2.5	76
9	Three-dimensional massive scalar field theory and the derivative expansion of the renormalization group. Nuclear Physics B, 1997, 495, 477-504.	2.5	75
10	The renormalization group and two dimensional multicritical effective scalar field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 345, 139-148.	4.1	74
11	Exact scheme independence. Journal of High Energy Physics, 2000, 2000, 004-004.	4.7	74
12	Redundant operators in the exact renormalisation group and in the $f(R)$ approximation to asymptotic safety. Journal of High Energy Physics, 2013, 2013, 1.	4.7	62
13	Background independent exact renormalization group for conformally reduced gravity. Journal of High Energy Physics, 2015, 2015, 1.	4.7	57
14	Background independence in a background dependent renormalization group. Physical Review D, 2016, 94, .	4.7	57
15	The local potential approximation in the background field formalism. Journal of High Energy Physics, 2014, 2014, 1.	4.7	54
16	Large N and the renormalization group. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 363-370.	4.1	53
17	Momentum scale expansion of sharp cutoff flow equations. Nuclear Physics B, 1996, 458, 477-503.	2.5	52
18	A gauge invariant exact renormalization group II. Journal of High Energy Physics, 2000, 2000, 012-012.	4.7	51

#	ARTICLE	IF	CITATIONS
19	Comment on "Fixed-Point Structure of Scalar Fields". Physical Review Letters, 1996, 77, 1658-1658.	7.8	49
20	Convergence of derivative expansions of the renormalization group. Journal of High Energy Physics, 1999, 1999, 007-007.	4.7	44
21	Large curvature and background scale independence in single-metric approximations to asymptotic safety. Journal of High Energy Physics, 2016, 2016, 1.	4.7	44
22	Equivalence of local potential approximations. Journal of High Energy Physics, 2005, 2005, 027-027.	4.7	40
23	Manifestly gauge-invariant QCD. Journal of Physics A, 2006, 39, 11657-11681.	1.6	40
24	Solutions to the reconstruction problem in asymptotic safety. Journal of High Energy Physics, 2015, 2015, 1.	4.7	38
25	A proposal for a manifestly gauge invariant and universal calculus in Yang-Mills theory. Physical Review D, 2003, 67, .	4.7	37
26	GAUGE-INVARIANT REGULARISATION VIA SU(N N). International Journal of Modern Physics A, 2002, 17, 2283-2329.	1.5	36
27	Manifestly gauge invariant, continuum calculation of the SU(N) Yang-Mills two-loop $\hat{\Gamma}^2$ function. Physical Review D, 2006, 73, .	4.7	36
28	Asymptotic solutions in asymptotic safety. Physical Review D, 2017, 95, .	4.7	36
29	Fixed point structure of the conformal factor field in quantum gravity. Physical Review D, 2016, 94, .	4.7	33
30	Exact scheme independence at two loops. Physical Review D, 2004, 69, .	4.7	30
31	Non-compact pure gauge QED in 3D is free. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 357, 225-231.	4.1	28
32	Manifestly gauge invariant QED. Journal of High Energy Physics, 2005, 2005, 115-115.	4.7	28
33	On the Existence of Low-Mass Dark Matter and its Direct Detection. Scientific Reports, 2015, 5, 8058.	3.3	28
34	Exact scheme independence at one loop. Journal of High Energy Physics, 2002, 2002, 059-059.	4.7	26
35	Manifestly diffeomorphism invariant classical Exact Renormalization Group. Journal of High Energy Physics, 2016, 2016, 1.	4.7	25
36	SCHEME INDEPENDENCE AS AN INHERENT REDUNDANCY IN QUANTUM FIELD THEORY. International Journal of Modern Physics A, 2001, 16, 2071-2074.	1.5	16

#	ARTICLE	IF	CITATIONS
37	Fate of nonpolynomial interactions in scalar field theory. <i>Physical Review D</i> , 2016, 94, .	4.7	15
38	Renormalization group properties in the conformal sector: towards perturbatively renormalizable quantum gravity. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	15
39	BRST in the exact renormalization group. <i>Progress of Theoretical and Experimental Physics</i> , 2019, 2019, .	6.6	15
40	Gauge invariant regularization in the AdS/CFT correspondence and ghost D-branes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 635, 148-150.	4.1	13
41	Trace anomaly and infrared cutoffs. <i>Physical Review D</i> , 2019, 99, .	4.7	13
42	CONVERGENCE OF DERIVATIVE EXPANSIONS IN SCALAR FIELD THEORY. <i>International Journal of Modern Physics A</i> , 2001, 16, 2095-2100.	1.5	10
43	Perturbatively renormalizable quantum gravity. <i>International Journal of Modern Physics D</i> , 2018, 27, 1847003.	2.1	10
44	Cosmological back-reaction in modified gravity and its implications for dark energy. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 017-017.	5.4	9
45	Renormalization group properties of the conformal mode of a torus. <i>Classical and Quantum Gravity</i> , 2018, 35, 175002.	4.0	9
46	Provable properties of asymptotic safety in $f(R)$ approximation. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	9
47	The continuum limit of quantum gravity at first order in perturbation theory. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	8
48	Conformal anomaly from gauge fields without gauge fixing. <i>Physical Review D</i> , 2018, 97, .	4.7	7
49	The continuum limit of quantum gravity at second order in perturbation theory. <i>Classical and Quantum Gravity</i> , 2021, 38, 115006.	4.0	3
50	Properties of the linearized functional renormalization group. <i>Physical Review D</i> , 2022, 105, .	4.7	3
51	Translational symmetry breaking in field theories and the cosmological constant. <i>Physical Review D</i> , 2016, 93, .	4.7	2
52	Continuum limit of the conformal sector at second order in perturbation theory. <i>Physical Review D</i> , 2021, 103, .	4.7	0
53	SCHEME INDEPENDENCE AS AN INHERENT REDUNDANCY IN QUANTUM FIELD THEORY. , 2002, , .		0