# 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 | Provable properties of asymptotic safety in f(R) approximation. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 9 |
| 2 | Properties of the linearized functional renormalization group. Physical Review D, 2022, 105, . | 4.7 | 3 |
| 3 | Continuum limit of the conformal sector at second order in perturbation theory. Physical Review D, 2021, 103, . | 4.7 | 0 |
| 4 | The continuum limit of quantum gravity at second order in perturbation theory. Classical and Quantum Gravity, 2021, 38, 115006. | 4.0 | 3 |
| 5 | The continuum limit of quantum gravity at first order in perturbation theory. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 8 |
| 6 | Trace anomaly and infrared cutoffs. Physical Review D, 2019, 99, . | 4.7 | 13 |
| 7 | BRST in the exact renormalization group. Progress of Theoretical and Experimental Physics, 2019, 2019, . | 6.6 | 15 |
| 8 | Perturbatively renormalizable quantum gravity. International Journal of Modern Physics D, 2018, 27, 1847003. | 2.1 | 10 |
| 9 | Renormalization group properties in the conformal sector: towards perturbatively renormalizable quantum gravity. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 15 |
| 10 | Conformal anomaly from gauge fields without gauge fixing. Physical Review D, 2018, 97, . | 4.7 | 7 |
| 11 | Renormalization group properties of the conformal mode of a torus. Classical and Quantum Gravity, 2018, 35, 175002. | 4.0 | 9 |
| 12 | Asymptotic solutions in asymptotic safety. Physical Review D, 2017, 95, . | 4.7 | 36 |
| 13 | Fate of nonpolynomial interactions in scalar field theory. Physical Review D, 2016, 94, . | 4.7 | 15 |
| 14 | Manifestly diffeomorphism invariant classical Exact Renormalization Group. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 25 |
| 15 | Translational symmetry breaking in field theories and the cosmological constant. Physical Review D, 2016, 93, . | 4.7 | 2 |
| 16 | Background independence in a background dependent renormalization group. Physical Review D, 2016, 94, . | 4.7 | 57 |
| 17 | Fixed point structure of the conformal factor field in quantum gravity. Physical Review D, 2016, 94, . | 4.7 | 33 |
| 18 | Large curvature and background scale independence in single-metric approximations to asymptotic safety. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 44 |

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|---|---------|-----|-----------|
| 19 | Solutions to the reconstruction problem in asymptotic safety. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 38 |
| 20 | On the Existence of Low-Mass Dark Matter and its Direct Detection. Scientific Reports, 2015, 5, 8058. | 3.3 | 28 |
| 21 | Background independent exact renormalization group for conformally reduced gravity. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 57 |
| 22 | Cosmological back-reaction in modified gravity and its implications for dark energy. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 017-017. | 5.4 | 9 |
| 23 | The local potential approximation in the background field formalism. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 54 |
| 24 | 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 |
| 25 | Asymptotic safety in the f(R) approximation. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 118 |
| 26 | Manifestly gauge invariant, continuum calculation of theSU(N)Yang-Mills two-loopÎ²function. Physical Review D, 2006, 73, . | 4.7 | 36 |
| 27 | Gauge invariant regularization in the AdS/CFT correspondence and ghost D-branes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 635, 148-150. | 4.1 | 13 |
| 28 | Manifestly gauge-invariant QCD. Journal of Physics A, 2006, 39, 11657-11681. | 1.6 | 40 |
| 29 | Equivalence of local potential approximations. Journal of High Energy Physics, 2005, 2005, 027-027. | 4.7 | 40 |
| 30 | Manifestly gauge invariant QED. Journal of High Energy Physics, 2005, 2005, 115-115. | 4.7 | 28 |
| 31 | Exact scheme independence at two loops. Physical Review D, 2004, 69, . | 4.7 | 30 |
| 32 | A proposal for a manifestly gauge invariant and universal calculus in Yang-Mills theory. Physical Review D, 2003, 67, . | 4.7 | 37 |
| 33 | GAUGE-INVARIANT REGULARISATION VIA SU(N|N). International Journal of Modern Physics A, 2002, 17, 2283-2329. | 1.5 | 36 |
| 34 | Exact scheme independence at one loop. Journal of High Energy Physics, 2002, 2002, 059-059. | 4.7 | 26 |
| 35 | SCHEME INDEPENDENCE AS AN INHERENT REDUNDANCY IN QUANTUM FIELD THEORY. , 2002, , . | | 0 |
| 36 | CONVERGENCE OF DERIVATIVE EXPANSIONS IN SCALAR FIELD THEORY. International Journal of Modern Physics A, 2001, 16, 2095-2100. | 1.5 | 10 |

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|---|---------|-----|-----------|
| 37 | SCHEME INDEPENDENCE AS AN INHERENT REDUNDANCY IN QUANTUM FIELD THEORY. International Journal of Modern Physics A, 2001, 16, 2071-2074. | 1.5 | 16 |
| 38 | Exact scheme independence. Journal of High Energy Physics, 2000, 2000, 004-004. | 4.7 | 74 |
| 39 | A gauge invariant exact renormalization group II. Journal of High Energy Physics, 2000, 2000, 012-012. | 4.7 | 51 |
| 40 | A gauge invariant exact renormalisation group. (I). Nuclear Physics B, 2000, 573, 97-126. | 2.5 | 76 |
| 41 | Convergence of derivative expansions of the renormalization group. Journal of High Energy Physics, 1999, 1999, 007-007. | 4.7 | 44 |
| 42 | Derivative expansion of the renormalization group in O(N) scalar field theory. Nuclear Physics B, 1998, 509, 637-661. | 2.5 | 81 |
| 43 | Elements of the Continuous Renormalization Group. Progress of Theoretical Physics Supplement, 1998, 131, 395-414. | 0.1 | 167 |
| 44 | Three-dimensional massive scalar field theory and the derivative expansion of the renormalization group. Nuclear Physics B, 1997, 495, 477-504. | 2.5 | 75 |
| 45 | Large N and the renormalization group. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 363-370. | 4.1 | 53 |
| 46 | Momentum scale expansion of sharp cutoff flow equations. Nuclear Physics B, 1996, 458, 477-503. | 2.5 | 52 |
| 47 | 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 |
| 48 | Comment on â€œFixed-Point Structure of Scalar Fieldsâ€. Physical Review Letters, 1996, 77, 1658-1658. | 7.8 | 49 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | THE EXACT RENORMALIZATION GROUP AND APPROXIMATE SOLUTIONS. International Journal of Modern Physics A, 1994, 09, 2411-2449. | 1.5 | 736 |