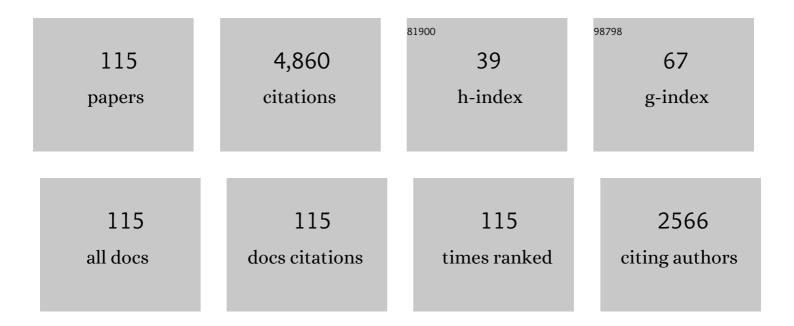
Tomislav Prokopec

List of Publications by Year in descending order

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| # | Article | lF | CITATIONS |
|----|---|-----|-----------|
| 1 | Large logarithms from quantum gravitational corrections to a massless, minimally coupled scalar on de Sitter. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 14 |
| 2 | Quantum origin of dark energy and the Hubble tension. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 831, 137174. | 4.1 | 7 |
| 3 | One-loop graviton corrections to conformal scalars on a de Sitter background. Physical Review D, 2021, 103, . | 4.7 | 3 |
| 4 | Non-minimally coupled curvaton. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 033. | 5.4 | 7 |
| 5 | <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">î"<mml:mi mathvariant="script">N</mml:mi></mml:mi </mml:math> and the stochastic conveyor belt of ultra slow-roll inflation. Physical Review D, 2021, 104, . | 4.7 | 8 |
| 6 | Field-theoretic derivation of bubble-wall force. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 39 |
| 7 | Abelian Higgs model in power-law inflation: the propagators in the unitary gauge. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 4 |
| 8 | Single graviton loop contribution to the self-mass of a massless, conformally coupled scalar on a de Sitter background. Physical Review D, 2020, 101, . | 4.7 | 9 |
| 9 | Inflation as a spontaneous symmetry breaking of Weyl symmetry. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 022-022. | 5.4 | 21 |
| 10 | Breaking of scaling symmetry by massless scalar on de Sitter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134944. | 4.1 | 5 |
| 11 | Failure of the stochastic approach to inflation beyond slow-roll. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 048-048. | 5.4 | 48 |
| 12 | Gravitational waves from conformal symmetry breaking. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 009-009. | 5.4 | 53 |
| 13 | Field-theoretic approach to large-scale structure formation. Physical Review D, 2019, 100, . | 4.7 | 5 |
| 14 | Entropy production in inflation from spectator loops. Physical Review D, 2019, 100, . | 4.7 | 7 |
| 15 | Graviton propagator in a 2-parameter family of de Sitter breaking gauges. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 8 |
| 16 | Single-scale renormalisation group improvement of multi-scale effective potentials. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 26 |
| 17 | Conformal symmetry and the cosmological constant problem. International Journal of Modern Physics D, 2018, 27, 1847014. | 2.1 | 11 |
| 18 | Systematic analysis of radiative symmetry breaking in models with extended scalar sector. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 17 |

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| 19 | Kinetic theory and classical limit for real scalar quantum field in curved spacetime. Physical Review D, 2018, 98, . | 4.7 | 8 |
| 20 | Stochastic dark energy from inflationary quantum fluctuations. European Physical Journal C, 2018, 78, 1. | 3.9 | 23 |
| 21 | Scalar enhancement of the photon electric field by the tail of the graviton propagator. Physical Review D, 2018, 98, . | 4.7 | 12 |
| 22 | Inflation in an effective gravitational model and asymptotic safety. Physical Review D, 2018, 98, . | 4.7 | 39 |
| 23 | One loop graviton corrections to dynamical photons in de Sitter. Classical and Quantum Gravity, 2017, 34, 085002. | 4.0 | 16 |
| 24 | Scalar field dark matter in hybrid approach. Physical Review D, 2017, 96, . | 4.7 | 11 |
| 25 | On primordial black holes from an inflection point. Physics of the Dark Universe, 2017, 18, 6-10. | 4.9 | 242 |
| 26 | Gravitational microlensing in Verlinde's emergent gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 281-288. | 4.1 | 17 |
| 27 | Planck scale operators, inflation, and fine tuning. Physical Review D, 2017, 96, . | 4.7 | 2 |
| 28 | Deducing cosmological observables from the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi> matrix. Physical Review D, 2017, 96, .</mml:math | 4.7 | 19 |
| 29 | Aims and Scopes of the Special Issue: Foundations of Astrophysics and Cosmology. Foundations of Physics, 2017, 47, 709-710. | 1.3 | 1 |
| 30 | Singularities in FLRW spacetimes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 311-314. | 4.1 | 3 |
| 31 | Singularities and conjugate points in FLRW spacetimes. General Relativity and Gravitation, 2017, 49, 1. | 2.0 | Ο |
| 32 | The role of conformal symmetry in gravity and the standard model. Classical and Quantum Gravity, 2016, 33, 245002. | 4.0 | 14 |
| 33 | Global monopoles can change Universe's topology. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 756, 268-272. | 4.1 | 4 |
| 34 | Topological inflation with graceful exit. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 052-052. | 5.4 | 3 |
| 35 | Quantum scalar corrections to the gravitational potentials on de Sitter background. Journal of High Energy Physics, 2016, 2016, 1. | 4.7 | 27 |
| 36 | Late-time quantum backreaction of a very light nonminimally coupled scalar. Physical Review D, 2016, 94, . | 4.7 | 19 |

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| 37 | Inflation from cosmological constant and nonminimally coupled scalar. Physical Review D, 2015, 92, . | 4.7 | 9 |
| 38 | Graviton loop corrections to vacuum polarization in de Sitter in a general covariant gauge. Classical and Quantum Gravity, 2015, 32, 195014. | 4.0 | 25 |
| 39 | Late time solution for interacting scalar in accelerating spaces. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 016-016. | 5.4 | 12 |
| 40 | Late-time quantum backreaction from inflationary fluctuations of a nonminimally coupled massless scalar. Physical Review D, 2015, 91, . | 4.7 | 22 |
| 41 | Electrodynamic effects of inflationary gravitons. Classical and Quantum Gravity, 2014, 31, 175002. | 4.0 | 32 |
| 42 | Representing the graviton self-energy on de Sitter background. Physical Review D, 2014, 90, . | 4.7 | 9 |
| 43 | Backreaction of a massless minimally coupled scalar field from inflationary quantum fluctuations. Physical Review D, 2014, 89, . | 4.7 | 34 |
| 44 | The newtonian limit of hermitian gravity. General Relativity and Gravitation, 2013, 45, 155-187. | 2.0 | 1 |
| 45 | Representing the vacuum polarization on de Sitter. Journal of Mathematical Physics, 2013, 54, . | 1.1 | 16 |
| 46 | Exact solution of the Dirac equation withCPviolation. Physical Review D, 2013, 87, . | 4.7 | 7 |
| 47 | Frame independent cosmological perturbations. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 027-027. | 5.4 | 32 |
| 48 | Antiscreening in perturbative quantum gravity and resolving the Newtonian singularity. Physical Review D, 2013, 87, . | 4.7 | 10 |
| 49 | Covariant vacuum polarizations on de Sitter background. Physical Review D, 2013, 87, . | 4.7 | 18 |
| 50 | Symmetry breaking and Goldstone theorem in de Sitter space. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 023-023. | 5.4 | 18 |
| 51 | Uniqueness of the gauge invariant action for cosmological perturbations. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 031-031. | 5.4 | 32 |
| 52 | The Gaussian entropy of fermionic systems. Annals of Physics, 2012, 327, 3138-3169. | 2.8 | 4 |
| 53 | Decoherence and dynamical entropy generation in quantum field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 315-318. | 4.1 | 6 |
| 54 | Regulating the infrared by mode matching: A massless scalar in expanding spaces with constant deceleration. Physical Review D, 2011, 83, . | 4.7 | 15 |

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| 55 | Quantum backreaction in evolving FLRW spacetimes. Physical Review D, 2011, 83, . | 4.7 | 20 |
| 56 | Time transients in the quantum corrected Newtonian potential induced by a massless nonminimally coupled scalar field. Physical Review D, 2011, 83, . | 4.7 | 14 |
| 57 | Resolving Curvature Singularities in Holomorphic Gravity. Foundations of Physics, 2011, 41, 1597-1633. | 1.3 | 12 |
| 58 | Decoherence in quantum mechanics. Annals of Physics, 2011, 326, 1548-1576. | 2.8 | 11 |
| 59 | Scalar cosmological perturbations from inflationary black holes. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 050-050. | 5.4 | 11 |
| 60 | Decoherence in an interacting quantum field theory: Thermal case. Physical Review D, 2011, 83, . | 4.7 | 18 |
| 61 | The graviton one-loop effective action in cosmological space–times with constant deceleration. Annals of Physics, 2010, 325, 948-968. | 2.8 | 14 |
| 62 | Entropy and correlators in quantum field theory. Annals of Physics, 2010, 325, 1277-1303. | 2.8 | 17 |
| 63 | Path integral for inflationary perturbations. Physical Review D, 2010, 82, . | 4.7 | 28 |
| 64 | Decoherence in an interacting quantum field theory: The vacuum case. Physical Review D, 2010, 81, . | 4.7 | 31 |
| 65 | Gauge invariant cosmological perturbations for the nonminimally coupled inflaton field. Physical Review D, 2010, 82, . | 4.7 | 33 |
| 66 | The Hubble effective potential. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 003-003. | 5.4 | 26 |
| 67 | The fermion propagator in cosmological spaces with constant deceleration. Classical and Quantum Gravity, 2009, 26, 125003. | 4.0 | 29 |
| 68 | Stochastic inflationary scalar electrodynamics. Annals of Physics, 2008, 323, 1324-1360. | 2.8 | 148 |
| 69 | Baryogenesis from the amplification of vacuum fluctuations during inflation. Physical Review D, 2008, 78, . | 4.7 | 2 |
| 70 | Infrared propagator corrections for constant deceleration. Classical and Quantum Gravity, 2008, 25, 245013. | 4.0 | 64 |
| 71 | A graviton propagator for inflation. Classical and Quantum Gravity, 2008, 25, 055007. | 4.0 | 17 |
| 72 | Two loop stress-energy tensor for inflationary scalar electrodynamics. Physical Review D, 2008, 78, . | 4.7 | 54 |

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| 73 | Effect of the trace anomaly on the cosmological constant. Physical Review D, 2008, 78, . | 4.7 | 13 |
| 74 | Decoherence from isocurvature perturbations in inflation. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 029-029. | 5.4 | 32 |
| 75 | Vacuum properties of non-symmetric gravity in de Sitter space. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 010-010. | 5.4 | 8 |
| 76 | Two loop scalar bilinears for inflationary SQED. Classical and Quantum Gravity, 2007, 24, 201-230. | 4.0 | 68 |
| 77 | Quantum radiative corrections to slow-roll inflation. Physical Review D, 2007, 76, . | 4.7 | 48 |
| 78 | Baryogenesis in the MSSM, nMSSM and NMSSM. Nuclear Physics A, 2007, 785, 206-209. | 1.5 | 27 |
| 79 | Fermion mass generation in de Sitter space. Physical Review D, 2006, 73, . | 4.7 | 61 |
| 80 | SO(10)-GUT coherent baryogenesis. Nuclear Physics B, 2006, 736, 133-155. | 2.5 | 18 |
| 81 | MSSM electroweak baryogenesis and flavour mixing in transport equations. Nuclear Physics B, 2006, 738, 1-22. | 2.5 | 113 |
| 82 | Electroweak phase transition and baryogenesis in the nMSSM. Nuclear Physics B, 2006, 757, 172-196. | 2.5 | 109 |
| 83 | Kinetic description of fermion flavor mixing and CP-violating sources for baryogenesis. Nuclear Physics B, 2005, 716, 373-400. | 2.5 | 70 |
| 84 | PHOTON MASS IN INFLATION AND NEARLY MINIMAL MAGNETOGENESIS. , 2005, , . | | 0 |
| 85 | Coherent Baryogenesis. Physical Review Letters, 2004, 92, 061303. | 7.8 | 20 |
| 86 | Photon mass generation during inflation: de Sitter invariant case. Journal of Cosmology and Astroparticle Physics, 2004, 2004, 007-007. | 5.4 | 58 |
| 87 | Particle number in kinetic theory. European Physical Journal C, 2004, 38, 135-143. | 3.9 | 33 |
| 88 | Transport equations for chiral fermions to order â"•and electroweak baryogenesis: Part II. Annals of Physics, 2004, 314, 267-320. | 2.8 | 106 |
| 89 | Transport equations for chiral fermions to order â,,•and electroweak baryogenesis: Part I. Annals of Physics, 2004, 314, 208-265. | 2.8 | 126 |
| 90 | Dynamics of superhorizon photons during inflation with vacuum polarization. Annals of Physics, 2004, 312, 1-16. | 2.8 | 65 |

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| 91 | Nearly minimal magnetogenesis. Physical Review D, 2004, 70, . | 4.7 | 39 |
| 92 | Axial currents from CKM matrix CP violation and electroweak baryogenesis. Nuclear Physics B, 2004, 679, 246-260. | 2.5 | 48 |
| 93 | Vacuum polarization and photon mass in inflation. American Journal of Physics, 2004, 72, 60-72. | 0.7 | 65 |
| 94 | One loop vacuum polarization in a locally de Sitter background. Annals of Physics, 2003, 303, 251-274. | 2.8 | 104 |
| 95 | Production of massless fermions during inflation. Journal of High Energy Physics, 2003, 2003, 059-059. | 4.7 | 80 |
| 96 | Natural magnetogenesis from inflation. Physical Review D, 2002, 65, . | 4.7 | 81 |
| 97 | Photon Mass from Inflation. Physical Review Letters, 2002, 89, 101301. | 7.8 | 125 |
| 98 | Semiclassical force for electroweak baryogenesis: Three-dimensional derivation. Physical Review D, 2002, 66, . | 4.7 | 56 |
| 99 | Primordial spectrum of gauge fields from inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 501, 165-172. | 4.1 | 105 |
| 100 | First principle derivation of semiclassical force for electroweak baryogenesis. Journal of High Energy Physics, 2001, 2001, 031-031. | 4.7 | 83 |
| 101 | Baryogenesis from `electrogenesis' in a scalar field dominated epoch. Journal of High Energy Physics, 2000, 2000, 030-030. | 4.7 | 8 |
| 102 | The semiclassical propagator in field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 468, 128-133. | 4.1 | 7 |
| 103 | Turning around the sphaleron bound: Electroweak baryogenesis in an alternative post-inflationary cosmology. Physical Review D, 1998, 57, 6022-6049. | 4.7 | 113 |
| 104 | Lattice study of classical inflaton decay. Physical Review D, 1997, 55, 3768-3775. | 4.7 | 180 |
| 105 | Nonlocal electroweak baryogenesis. II. The classical regime. Physical Review D, 1996, 53, 2958-2980. | 4.7 | 132 |
| 106 | Nonlocal electroweak baryogenesis. I. Thin wall regime. Physical Review D, 1996, 53, 2930-2957. | 4.7 | 142 |
| 107 | How fast can the wall move? A study of the electroweak phase transition dynamics. Physical Review D, 1995, 52, 7182-7204. | 4.7 | 166 |
| 108 | Bubble Wall Velocity in a First Order Electroweak Phase Transition. Physical Review Letters, 1995, 75, 777-780. | 7.8 | 117 |

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| 109 | Electroweak Baryogenesis from a Classical Force. Physical Review Letters, 1995, 75, 3375-3375. | 7.8 | 34 |
| 110 | Electroweak Baryogenesis from a Classical Force. Physical Review Letters, 1995, 75, 1695-1698. | 7.8 | 102 |
| 111 | Efficient electroweak baryogenesis from lepton transport. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 338, 269-275. | 4.1 | 50 |
| 112 | Inflation and squeezed quantum states. Physical Review D, 1994, 50, 4807-4820. | 4.7 | 238 |
| 113 | Entropy of the squeezed vacuum. Classical and Quantum Gravity, 1993, 10, 2295-2306. | 4.0 | 44 |
| 114 | Entropy of the gravitational field. Physical Review D, 1993, 48, 2443-2455. | 4.7 | 81 |
| 115 | Entropy of a classical stochastic field and cosmological perturbations. Physical Review Letters, 1992, 69, 3606-3609. | 7.8 | 82 |