# Christopher John Fewster

List of Publications by Year
in descending order

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|---|---|---|---|
| 69<br>papers | 1,611<br>citations | 236925<br>25<br>h-index | 330143<br>37<br>g-index |
| 72<br>all docs | 72<br>docs citations | 72<br>times ranked | 366<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | QUANTUM ENERGY INEQUALITIES IN TWO-DIMENSIONAL CONFORMAL FIELD THEORY. Reviews in Mathematical Physics, 2005, 17, 577-612. | 1.7 | 106 |
| 2 | A general worldline quantum inequality. Classical and Quantum Gravity, 2000, 17, 1897-1911. | 4.0 | 101 |
| 3 | A quantum weak energy inequality for spin-one fields in curved space–time. Journal of Mathematical Physics, 2003, 44, 4480. | 1.1 | 68 |
| 4 | Probability distributions of smeared quantum stress tensors. Physical Review D, 2010, 81, . | 4.7 | 60 |
| 5 | Probability distributions for quantum stress tensors in four dimensions. Physical Review D, 2012, 85, . | 4.7 | 59 |
| 6 | Null energy conditions in quantum field theory. Physical Review D, 2003, 67, . | 4.7 | 56 |
| 7 | Dynamical Locality and Covariance: What Makes a Physical Theory the Same in all Spacetimes?. Annales Henri Poincare, 2012, 13, 1613-1674. | 1.7 | 55 |
| 8 | The necessity of the Hadamard condition. Classical and Quantum Gravity, 2013, 30, 235027. | 4.0 | 54 |
| 9 | A Quantum Weak Energy Inequality for Dirac Fields in Curved Spacetime. Communications in Mathematical Physics, 2002, 225, 331-359. | 2.2 | 53 |
| 10 | Waiting for Unruh. Classical and Quantum Gravity, 2016, 33, 165003. | 4.0 | 52 |
| 11 | Quantum Fields and Local Measurements. Communications in Mathematical Physics, 2020, 378, 851-889. | 2.2 | 44 |
| 12 | QUANTIZATION OF LINEARIZED GRAVITY IN COSMOLOGICAL VACUUM SPACETIMES. Reviews in Mathematical Physics, 2013, 25, 1330003. | 1.7 | 43 |
| 13 | Bounds on negative energy densities in static space-times. Physical Review D, 1999, 59, . | 4.7 | 42 |
| 14 | Absolute Quantum Energy Inequalities in Curved Spacetime. Annales Henri Poincare, 2008, 9, 425-455. | 1.7 | 41 |
| 15 | Quantum Inequalities in Quantum Mechanics. Annales Henri Poincare, 2005, 6, 1-30. | 1.7 | 39 |
| 16 | Singularity theorems from weakened energy conditions. Classical and Quantum Gravity, 2011, 28, 125009. | 4.0 | 39 |
| 17 | Algebraic Quantum Field Theory in Curved Spacetimes. Letters in Mathematical Physics, 2015, , 125-189. | 0.6 | 36 |
| 18 | On wormholes with arbitrarily small quantities of exotic matter. Physical Review D, 2005, 72, . | 4.7 | 35 |

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|---|---------|-----|-----------|
| 19 | Quantum energy inequalities and local covariance. I. Globally hyperbolic spacetimes. Journal of Mathematical Physics, 2006, 47, 082303. | 1.1 | 33 |
| 20 | Averaged null energy condition in spacetimes with boundaries. Physical Review D, 2007, 75, . | 4.7 | 31 |
| 21 | On a recent construction of 'vacuum-like' quantum field states in curved spacetime. Classical and Quantum Gravity, 2012, 29, 205017. | 4.0 | 31 |
| 22 | Probability distributions for quantum stress tensors measured in a finite time interval. Physical Review D, 2015, 92, . | 4.7 | 31 |
| 23 | Impossible measurements require impossible apparatus. Physical Review D, 2021, 103, . | 4.7 | 31 |
| 24 | Stability of Quantum Systems at Three Scales: Passivity, Quantum Weak Energy Inequalities and the Microlocal Spectrum Condition. Communications in Mathematical Physics, 2003, 240, 329-375. | 2.2 | 27 |
| 25 | Quantum energy inequalities for the non-minimally coupled scalar field. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 025402. | 2.1 | 26 |
| 26 | Quantum energy inequalities and local covariance II: categorical formulation. General Relativity and Gravitation, 2007, 39, 1855-1890. | 2.0 | 25 |
| 27 | Quantum inequalities and "quantum interest" as eigenvalue problems. Physical Review D, 2000, 61, . | 4.7 | 23 |
| 28 | Locally covariant quantum field theory and the problem of formulating the same physics in all space–times. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140238. | 3.4 | 22 |
| 29 | ENDOMORPHISMS AND AUTOMORPHISMS OF LOCALLY COVARIANT QUANTUM FIELD THEORIES. Reviews in Mathematical Physics, 2013, 25, 1350008. | 1.7 | 19 |
| 30 | Dynamical Locality of the Free Scalar Field. Annales Henri Poincare, 2012, 13, 1675-1709. | 1.7 | 18 |
| 31 | Quantum Inequalities from Operator Product Expansions. Communications in Mathematical Physics, 2009, 292, 761-795. | 2.2 | 17 |
| 32 | Phase space quantization and loop quantum cosmology: a Wigner function for the Bohr-compactified real line. Classical and Quantum Gravity, 2008, 25, 225015. | 4.0 | 16 |
| 33 | Quantum energy inequality for the massive Ising model. Physical Review D, 2013, 88, . | 4.7 | 14 |
| 34 | Averaged energy inequalities for the nonminimally coupled classical scalar field. Physical Review D, 2006, 74, . | 4.7 | 13 |
| 35 | A singularity theorem for Einstein–Klein–Gordon theory. General Relativity and Gravitation, 2018, 50, 1. | 2.0 | 13 |
| 36 | Probability distributions for space and time averaged quantum stress tensors. Physical Review D, 2020, 101, . | 4.7 | 12 |

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|---|---------|----|-----------|
| 37 | The Split Property for Locally Covariant Quantum Field Theories in Curved Spacetime. Letters in Mathematical Physics, 2015, 105, 1633-1661. | 1.1 | 11 |
| 38 | Quantum Energy Inequalities. Fundamental Theories of Physics, 2017, , 215-254. | 0.3 | 11 |
| 39 | The art of the state. International Journal of Modern Physics D, 2018, 27, 1843007. | 2.1 | 11 |
| 40 | Probability distributions for the stress tensor in conformal field theories. Letters in Mathematical Physics, 2019, 109, 747-780. | 1.1 | 11 |
| 41 | Dynamical Locality of the Free Maxwell Field. Annales Henri Poincare, 2016, 17, 401-436. | 1.7 | 10 |
| 42 | Algebraic classical and quantum field theory on causal sets. Physical Review D, 2020, 101, . | 4.7 | 10 |
| 43 | A new derivation of singularity theorems with weakened energy hypotheses. Classical and Quantum Gravity, 2020, 37, 065010. | 4.0 | 10 |
| 44 | Quantum strong energy inequalities. Physical Review D, 2019, 99, . | 4.7 | 10 |
| 45 | Energy inequalities in quantum field theory. , 2006, , . | | 10 |
| 46 | Locally Covariant Quantum Field Theory with External Sources. Annales Henri Poincare, 2015, 16, 2303-2365. | 1.7 | 9 |
| 47 | Pure quasifree states of the Dirac field from the fermionic projector. Classical and Quantum Gravity, 2015, 32, 095001. | 4.0 | 9 |
| 48 | Vacuum quantum stress tensor fluctuations: A diagonalization approach. Physical Review D, 2018, 97, . | 4.7 | 9 |
| 49 | Algebraic Quantum Field Theory. , 2020, , 1-61. | | 9 |
| 50 | Quantum energy inequalities in two dimensions. Physical Review D, 2004, 70, . | 4.7 | 8 |
| 51 | p-Nuclearity in a New Perspective. Letters in Mathematical Physics, 2005, 73, 1-15. | 1.1 | 8 |
| 52 | The split property for quantum field theories in flat and curved spacetimes. Abhandlungen Aus Dem Mathematischen Seminar Der Universitat Hamburg, 2016, 86, 153-175. | 0.2 | 8 |
| 53 | Quantum energy inequalities in premetric electrodynamics. Physical Review D, 2018, 97, . | 4.7 | 7 |
| 54 | Mass dependence of quantum energy inequality bounds. Journal of Mathematical Physics, 2007, 48, 093506. | 1.1 | 6 |

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|---|---------|----|-----------|
| 55 | On the Notion of â€˜the Same Physics in All Spacetimesâ€™. , 2012, , 207-227. | | 6 |
| 56 | A semiclassical singularity theorem. Classical and Quantum Gravity, 2022, 39, 075028. | 4.0 | 6 |
| 57 | A Generally Covariant Measurement Scheme for Quantum Field Theory in Curved Spacetimes. , 2020, , 253-268. | | 5 |
| 58 | On the Spin-Statistics Connection in Curved Spacetimes. , 2016, , 1-18. | | 4 |
| 59 | Quantum Energy Inequalities and Stability Conditions in Quantum Field Theory. Progress in Mathematics, 2007, , 95-111. | 0.3 | 4 |
| 60 | Enumerating Permutations by their Run Structure. Electronic Journal of Combinatorics, 2014, 21, . | 0.4 | 4 |
| 61 | An Analogue of the Colemanâ€"Mandula Theorem for Quantum Field Theory in Curved Spacetimes. Communications in Mathematical Physics, 2018, 357, 353-378. | 2.2 | 3 |
| 62 | Relative Cauchy Evolution for Linear Homotopy AQFTs. Communications in Mathematical Physics, 2022, 392, 621-657. | 2.2 | 3 |
| 63 | Locally covariant quantum field theory and the spinâ€"statistics connection. International Journal of Modern Physics D, 2016, 25, 1630015. | 2.1 | 2 |
| 64 | Explicit examples of probability distributions for the energy density in two-dimensional conformal field theory. Physical Review D, 2020, 101, . | 4.7 | 1 |
| 65 | Integrals of incomplete beta functions, with applications to order statistics, random walks and string enumeration. Brazilian Journal of Probability and Statistics, 2022, 36, . | 0.4 | 1 |
| 66 | Quantum fields in curved spacetime, semiclassical gravity, quantum gravity phenomenology, and analogue models: parallel session D4. General Relativity and Gravitation, 2014, 46, 1. | 2.0 | 0 |
| 67 | Local structure of sprinkled causal sets. Physical Review D, 2021, 103, . | 4.7 | 0 |
| 68 | RECENT DEVELOPMENTS IN QUANTUM ENERGY INEQUALITIES. , 2008, , . | | 0 |
| 69 | Locally covariant quantum field theory and the spinâ€"statistics connection. , 2017, , . | | 0 |