# Gary T Horowitz

List of Publications by Year
in descending order



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|---|---|---|---|
| 83 papers | 9,761 citations | 66343 42 h-index | 76900 74 g-index |
| 83 all docs | 83 docs citations | 83 times ranked | 3817 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Building a Holographic Superconductor. Physical Review Letters, 2008, 101, 031601. | 7.8 | 1,317 |
| 2 | Charged black holes in string theory. Physical Review D, 1991, 43, 3140-3143. | 4.7 | 1,004 |
| 3 | Holographic superconductors. Journal of High Energy Physics, 2008, 2008, 015-015. | 4.7 | 877 |
| 4 | Black Holes Radiate Mainly on the Brane. Physical Review Letters, 2000, 85, 499-502. | 7.8 | 343 |
| 5 | Spacetime singularities in string theory. Physical Review Letters, 1990, 64, 260-263. | 7.8 | 324 |
| 6 | AdS-CFT correspondence and a new positive energy conjecture for general relativity. Physical Review D, 1998, 59, . | 4.7 | 315 |
| 7 | Extreme Kerr throat geometry: A vacuum analog ofAdS2Ã—S2. Physical Review D, 1999, 60, . | 4.7 | 312 |
| 8 | Exact description of black holes on branes. Journal of High Energy Physics, 2000, 2000, 007-007. | 4.7 | 261 |
| 9 | Holographic superconductors with various condensates. Physical Review D, 2008, 78, . | 4.7 | 255 |
| 10 | Zero temperature limit of holographic superconductors. Journal of High Energy Physics, 2009, 2009, 015-015. | 4.7 | 254 |
| 11 | Higher-dimensional resolution of dilatonic black-hole singularities. Classical and Quantum Gravity, 1995, 12, 297-317. | 4.0 | 251 |
| 12 | Positive mass theorems for black holes. Communications in Mathematical Physics, 1983, 88, 295-308. | 2.2 | 246 |
| 13 | Optical conductivity with holographic lattices. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 228 |
| 14 | Introduction to Holographic Superconductors. Lecture Notes in Physics, 2011, , 313-347. | 0.7 | 218 |
| 15 | String theory formulation of the three-dimensional black hole. Physical Review Letters, 1993, 71, 328-331. | 7.8 | 216 |
| 16 | Strings in strong gravitational fields. Physical Review D, 1990, 42, 1950-1959. | 4.7 | 169 |
| 17 | Exact description of black holes on branes II: comparison with BTZ black holes and black strings. Journal of High Energy Physics, 2000, 2000, 021-021. | 4.7 | 168 |
| 18 | Fate of the Black String Instability. Physical Review Letters, 2001, 87, 131301. | 7.8 | 158 |

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|---|---|---|---|
| 19 | Holographic description of AdS cosmologies. Journal of High Energy Physics, 2005, 2005, 005-005. | 4.7 | 152 |
| 20 | Towards a Big Crunch Dual. Journal of High Energy Physics, 2004, 2004, 073-073. | 4.7 | 148 |
| 21 | Black holes with only one Killing field. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 146 |
| 22 | Statistical Entropy of Nonextremal Four-Dimensional Black Holes andUDuality. Physical Review Letters, 1996, 77, 430-433. | 7.8 | 140 |
| 23 | Further evidence for lattice-induced scaling. Journal of High Energy Physics, 2012, 2012, 1. | 4.7 | 132 |
| 24 | Gravitational turbulent instability of anti-de Sitter space. Classical and Quantum Gravity, 2012, 29, 194002. | 4.0 | 119 |
| 25 | Negative energy in string theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 262, 437-443. | 4.1 | 115 |
| 26 | Complete phase diagrams for a holographic superconductor/insulator system. Journal of High Energy Physics, 2010, 2010, 1. | 4.7 | 114 |
| 27 | Clean Time-Dependent String Backgrounds from Bubble Baths. Journal of High Energy Physics, 2002, 2002, 007-007. | 4.7 | 103 |
| 28 | No dynamics in the extremal Kerr throat. Journal of High Energy Physics, 2009, 2009, 044-044. | 4.7 | 101 |
| 29 | A quantum field theoretic description of linking numbers and their generalization. Communications in Mathematical Physics, 1990, 130, 83-94. | 2.2 | 84 |
| 30 | Microstates of a Neutral Black Hole in M Theory. Physical Review Letters, 2006, 97, 141601. | 7.8 | 82 |
| 31 | Photoemission â€œexperimentsâ€•on holographic superconductors. Journal of High Energy Physics, 2010, 2010, 1. | 4.7 | 80 |
| 32 | General relativity and the cuprates. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 70 |
| 33 | Testing the weak gravity-cosmic censorship connection. Physical Review D, 2018, 97, . | 4.7 | 69 |
| 34 | Breaking Cosmic Strings without Monopoles. Physical Review Letters, 1995, 75, 3390-3393. | 7.8 | 68 |
| 35 | Evidence for an electrifying violation of cosmic censorship. Classical and Quantum Gravity, 2016, 33, 195007. | 4.0 | 68 |
| 36 | The inside story: Quasilocal tachyons and black holes. Physical Review D, 2006, 73, . | 4.7 | 54 |

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| 37 | Spectrum of LargeNGauge Theory from Supergravity. Physical Review Letters, 1998, 80, 4116-4118. | 7.8 | 51 |
| 38 | Vortices in holographic superfluids and superconductors as conformal defects. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 51 |
| 39 | Nonperturbative instability of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>AdS</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:mo>Ã—</mml:mo><mml:msup><mml:mi mathvariant="bold">S</mml:mi><mml:mn>5</mml:mn></mml:msup><mml:mo>/</mml:mo><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mi>k</mml:mi></mml:msub></mml:math>. Physical Review D, 2008, 77, . | 4.7 | 50 |
| 40 | New stability results for Einstein scalar gravity. Classical and Quantum Gravity, 2010, 27, 205007. | 4.0 | 49 |
| 41 | Holographic Josephson Junctions. Physical Review Letters, 2011, 106, 221601. | 7.8 | 49 |
| 42 | When black holes meet Kaluza-Klein bubbles. Physical Review D, 2003, 67, . | 4.7 | 45 |
| 43 | Holographic Signatures of Cosmological Singularities. Physical Review Letters, 2014, 113, 121602. | 7.8 | 42 |
| 44 | Towards a reconstruction of general bulk metrics. Classical and Quantum Gravity, 2017, 34, 015004. | 4.0 | 40 |
| 45 | Lifshitz singularities. Physical Review D, 2012, 85, . | 4.7 | 35 |
| 46 | Gravitational duals to the grand canonical ensemble abhor Cauchy horizons. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 35 |
| 47 | Geons and the instability of anti-de Sitter spacetime. Journal of Differential Geometry, 2015, 20, 321-335. | 1.0 | 33 |
| 48 | Uniqueness of extremal Kerr and Kerr-Newman black holes. Physical Review D, 2010, 81, . | 4.7 | 32 |
| 49 | Further holographic investigations of big bang singularities. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 32 |
| 50 | Properties of naked black holes. Physical Review D, 1998, 57, 1098-1107. | 4.7 | 31 |
| 51 | Hovering black holes from charged defects. Classical and Quantum Gravity, 2015, 32, 105001. | 4.0 | 30 |
| 52 | Numerical construction of static and stationary black holes. , 2012, , 233-270. | | 28 |
| 53 | The fluid/gravity correspondence. , 2012, , 348-386. | | 28 |
| 54 | Holographic consequences of a no transmission principle. Physical Review D, 2016, 93, . | 4.7 | 28 |

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|---|---|---|---|
| 55 | Further evidence for the weak gravity â€" cosmic censorship connection. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 28 |
| 56 | Holographic quantum criticality from multi-trace deformations. Journal of High Energy Physics, 2011, 2011, 1. | 4.7 | 27 |
| 57 | Counting the Microstates of a Kerr Black Hole in M Theory. Physical Review Letters, 2007, 99, 221601. | 7.8 | 26 |
| 58 | Simple holographic insulator. Physical Review D, 2014, 90, . | 4.7 | 23 |
| 59 | Entanglement entropy near cosmological singularities. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 20 |
| 60 | Surprising connections between general relativity and condensed matter. Classical and Quantum Gravity, 2011, 28, 114008. | 4.0 | 18 |
| 61 | Comments on black holes in bubbling spacetimes. Journal of High Energy Physics, 2017, 2017, 1. | 4.7 | 18 |
| 62 | Recovering the spacetime metric from a holographic dual. Advances in Theoretical and Mathematical Physics, 2017, 21, 1635-1653. | 0.6 | 18 |
| 63 | Simple holographic model of nonlinear conductivity. Physical Review D, 2013, 88, . | 4.7 | 16 |
| 64 | Colliding KaluzaÂKlein bubbles. Classical and Quantum Gravity, 2002, 19, 5543-5555. | 4.0 | 13 |
| 65 | New insights into quantum gravity from gauge/gravity duality. International Journal of Modern Physics D, 2016, 25, 1643002. | 2.1 | 13 |
| 66 | Inside an asymptotically flat hairy black hole. Journal of High Energy Physics, 2021, 2021, 1. | 4.7 | 13 |
| 67 | Bulk reconstruction of metrics with a compact space asymptotically. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 12 |
| 68 | Attempts at vacuum counterexamples to cosmic censorship in AdS. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 11 |
| 69 | Deforming black holes in AdS. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 9 |
| 70 | Detachable circles and temperature-inversion dualities for CFT d. Journal of High Energy Physics, 2018, 2018, 1. | 4.7 | 9 |
| 71 | Holographic argument for the Penrose inequality in AdS spacetimes. Physical Review D, 2019, 99, . | 4.7 | 8 |
| 72 | Gravitational corner conditions in holography. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 8 |

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| 73 | Geons and spin-2 condensates in the AdS soliton. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 7 |
| 74 | Extremal black holes that are not extremal: maximal warm holes. Journal of High Energy Physics, 2022, 2022, 1. | 4.7 | 6 |
| 75 | Boundary Causality Violating Metrics in Holography. Physical Review Letters, 2021, 127, 081603. | 7.8 | 3 |
| 76 | Quantum Gravity via Supersymmetry and Holography. , 0, , 612-666. | | 2 |
| 77 | A no black hole theorem. Classical and Quantum Gravity, 2015, 32, 055011. | 4.0 | 1 |
| 78 | String Theory Without a Background Spacetime Geometry. , 1987, , . | | 1 |
| 79 | String theory as a quantum theory of gravity. , 1990, , 419-440. | | 1 |
| 80 | Fate of the black string instability. AIP Conference Proceedings, 2002, , . | 0.4 | 0 |
| 81 | D2: STRING AND M THEORY. , 2005, , . | | 0 |
| 82 | Creating Naked Singularities and Negative Energy. , 2005, , . | | 0 |
| 83 | Consequences of analytic boundary conditions in AdS. Journal of High Energy Physics, 2020, 2020, 1. | 4.7 | 0 |