Gia Dvali

List of Publications by Year
in descending order

96 papers	20,942 citations	61984 43 h-index	48315 88 g-index
96 all docs	96 docs citations	96 times ranked	7919 citing authors

#	Article	IF	Citations
1	How special are black holes? Correspondence with objects saturating unitarity bounds in generic theories. Physical Review D, 2022, 105, .	4.7	5
2	Black-hole-like saturons in Gross-Neveu. Physical Review D, 2022, 105, .	4.7	5
3	Classicalization and unitarization of wee partons in QCD and gravity: The CGC-black hole correspondence. Physical Review D, 2022, 105, .	4.7	17
4	Bounds on quantum information storage and retrieval. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210071.	3.4	4
5	Area Law Saturation of Entropy Bound from Perturbative Unitarity in Renormalizable Theories. Fortschritte Der Physik, 2021, 69, 2000090.	4.4	10
6	Unitarity Entropy Bound: Solitons and Instantons. Fortschritte Der Physik, 2021, 69, 2000091.	4.4	11
7	On the Gravitational Force on Antiâ€Matter. Fortschritte Der Physik, 2021, 69, 2000092.	4.4	1
8	Entropy bound and unitarity of scattering amplitudes. Journal of High Energy Physics, 2021, 2021, 1.	4.7	25
9	S-Matrix and Anomaly of de Sitter. Symmetry, 2021, 13, 3.	2.2	23
10	Black hole metamorphosis and stabilization by memory burden. Physical Review D, 2020, 102, .	4.7	18
11	Finding critical states of enhanced memory capacity in attractive cold bosons. EPJ Quantum Technology, 2019, 6, 1.	6.3	12
12	On Exclusion of Positive Cosmological Constant. Fortschritte Der Physik, 2019, 67, 1800092.	4.4	68
13	Quantum Breaking Bound on de Sitter and Swampland. Fortschritte Der Physik, 2019, 67, 1800094.	4.4	67
14	Universe's primordial quantum memories. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 010-010.	5.4	7
15	Black Holes as Brains: Neural Networks with Area Law Entropy. Fortschritte Der Physik, 2018, 66, 1800007.	4.4	20
16	On Quantum Life of Black Holes. Foundations of Physics, 2018, 48, 1219-1225.	1.3	0
17	Area law microstate entropy from criticality and spherical symmetry. Physical Review D, 2018, 97, .	4.7	11
18	Universality of black hole quantum computing. Fortschritte Der Physik, 2017, 65, 1600111.	4.4	13

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19	Quantum break-time of de Sitter. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 028-028.	5.4	97
20	Strong Coupling and Classicalization. , 2017, , 189-200.		7
21	Goldstone origin of black hole hair from supertranslations and criticality. Modern Physics Letters A, 2016, 31, 1630045.	1.2	29
22	Skyrmion black hole hair: Conservation of baryon number by black holes and observable manifestations. Nuclear Physics B, 2016, 913, 1001-1036.	2.5	24
23	Quantum exclusion of positive cosmological constant?. Annalen Der Physik, 2016, 528, 68-73.	2.4	62
24	Black hole based quantum computing in labs and in the sky. Fortschritte Der Physik, 2016, 64, 569-580.	4.4	9
25	Gravitational black hole hair from event horizon supertranslations. Journal of High Energy Physics, 2016, 2016, 1.	4.7	40
26	Nonâ€Thermal Corrections to Hawking Radiation Versus the Information Paradox**. Fortschritte Der Physik, 2016, 64, 106-108.	4.4	23
27	Classical limit of black hole quantum N -portrait and BMS symmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 173-177.	4.1	35
28	Towards a quantum theory of solitons. Nuclear Physics B, 2015, 901, 338-353.	2.5	17
29	Nambu-Goldstone effective theory of information at quantum criticality. Physical Review D, 2015, 92, .	4.7	23
30	Quantum compositeness of gravity: black holes, AdS and inflation. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 023-023.	5.4	136
31	Black holes as critical point of quantum phase transition. European Physical Journal C, 2014, 74, 2752.	3.9	158
32	Black holeÊ¼s <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mn>1</mml:mn><mml:mo stretchy="false">/</mml:mo><mml:mi>N</mml:mi></mml:math> hair. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 419-423.	4.1	152
33	Scrambling in the black hole portrait. Physical Review D, 2013, 88, .	4.7	61
34	Ultra-high energy probes of classicalization. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 015-015.	5.4	30
35	Physics of trans-Planckian gravity. Physical Review D, 2011, 84, .	4.7	57
36	Erice Lecture on Microscopic Gravity. , 2011, , .		0

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37	Probing quantum geometry at LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	13
38	UV-completion by classicalization. Journal of High Energy Physics, 2011, 2011, 1.	4.7	169
39	Classicalization of gravitons and Goldstones. Journal of High Energy Physics, 2011, 2011, 1.	4.7	60
40	Black holes and large N species solution to the hierarchy problem. Fortschritte Der Physik, 2010, 58, 528-536.	4.4	262
41	NATURE OF MICROSCOPIC BLACK HOLES AND GRAVITY IN THEORIES WITH PARTICLE SPECIES. International Journal of Modern Physics A, 2010, 25, 602-615.	1.5	16
42	Nature of Microscopic Black Holes and Gravity in Theories with Particle Species. , 2010, , .		0
43	Quantum information and gravity cutoff in theories with species. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 303-307.	4.1	49
44	Micro black holes and the democratic transition. Physical Review D, 2009, 79, .	4.7	8
45	OBSERVABLE CONSEQUENCES OF STRONG COUPLING IN THEORIES WITH LARGE DISTANCE MODIFIED GRAVITY. , 2009, , 139-147.		1
46	Non-Pauli-Fierz Massive Gravitons. Physical Review Letters, 2008, 101, 171303.	7.8	21
47	Black hole bound on the number of species and quantum gravity at CERN LHC. Physical Review D, 2008, 77, .	4.7	157
48	Gravity Cutoff in Theories with Large Discrete Symmetries. Physical Review Letters, 2008, 101, 151603.	7.8	22
49	Cascading Gravity: Extending the Dvali-Gabadadze-Porrati Model to Higher Dimension. Physical Review Letters, 2008, 100, 251603.	7.8	130
50	OBSERVABLE CONSEQUENCES OF STRONG COUPLING IN THEORIES WITH LARGE DISTANCE MODIFIED GRAVITY. International Journal of Modern Physics D, 2007, 16, 2013-2021.	2.1	3
51	Domain walls as probes of gravity. Physical Review D, 2007, 75, .	4.7	31
52	Consistent Lorentz violation in flat and curved space. Physical Review D, 2007, 76, .	4.7	21
53	Degravitation of the cosmological constant and graviton width. Physical Review D, 2007, 76, .	4.7	194
54	Topological Mass Generation in Four Dimensions. Physical Review Letters, 2006, 96, 081602.	7.8	39

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55	Predictive power of strong coupling in theories with large distance modified gravity. New Journal of Physics, 2006, 8, 326-326.	2.9	113
56	Accelerated Universe and Gravity Modified at Largest Observable Distances. Progress of Theoretical Physics Supplement, 2006, 163, 174-184.	0.1	1
57	Infrared Lorentz Violation and Slowly Instantaneous Electricity. Physical Review Letters, 2005, 94, 191602.	7.8	29
58	CosmicD-strings as axionicD-term strings. Physical Review D, 2005, 72, .	4.7	19
59	NEW OLD INFLATION. , 2005, , 1131-1155.		7
60	D-term strings. Journal of High Energy Physics, 2004, 2004, 035-035.	4.7	93
61	Fayetâ€“Iliopoulos terms in supergravity and cosmology. Classical and Quantum Gravity, 2004, 21, 3137-3169.	4.0	180
62	Formation and evolution of cosmicDstrings. Journal of Cosmology and Astroparticle Physics, 2004, 2004, 010-010.	5.4	274
63	Cosmic attractors and gauge hierarchy. Physical Review D, 2004, 70, .	4.7	56
64	Neutrino probes of dark energy. Nature, 2004, 432, 567-568.	27.8	8
65	The accelerated universe and the Moon. Physical Review D, 2003, 68, .	4.7	158
66	Diluting the cosmological constant in infinite volume extra dimensions. Physical Review D, 2003, 67, .	4.7	161
67	Seesaw modification of gravity. Physical Review D, 2003, 67, .	4.7	35
68	SolitonicD-branes and brane annihilation. Physical Review D, 2003, 67, .	4.7	60
69	ChangingÎ±with Time: Implications for Fifth-Force-Type Experiments and Quintessence. Physical Review Letters, 2002, 88, 091303.	7.8	158
70	Nonperturbative continuity in graviton mass versus perturbative discontinuity. Physical Review D, 2002, 65, .	4.7	401
71	Accelerated universe from gravity leaking to extra dimensions. Physical Review D, 2002, 65, .	4.7	858
72	DILUTING COSMOLOGICAL CONSTANT VIA LARGE DISTANCE MODIFICATION OF GRAVITY. , 2002, , .		13

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73	(Quasi)localized gauge field on a brane: dissipating cosmic radiation to extra dimensions?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 497, 271-280.	4.1	111
74	ULTRALIGHT SCALARS AND SPIRAL GALAXIES. Modern Physics Letters A, 2001, 16, 513-530.	1.2	14
75	Scales of gravity. Physical Review D, 2001, 65, .	4.7	133
76	Gravity on a brane in infinite-volume extra space. Physical Review D, 2001, 63, .	4.7	409
77	Braneworld flattening by a cosmological constant. Physical Review D, 2001, 64, .	4.7	33
78	Power of brane-induced gravity. Physical Review D, 2001, 64, .	4.7	157
79	A comment on brane bending and ghosts in theories with infinite extra dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 484, 129-132.	4.1	55
80	4D gravity on a brane in 5D Minkowski space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 485, 208-214.	4.1	2,864
81	ON SUB-MILLIMETER FORCES FROM EXTRA DIMENSIONS. Modern Physics Letters A, 2000, 15, 1717-1726.	1.2	16
82	Infinitely Large New Dimensions. Physical Review Letters, 2000, 84, 586-589.	7.8	235
83	CONSTRAINTS ON EXTRA TIME DIMENSIONS. , 2000, , 525-532.		6
84	Brane inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 450, 72-82.	4.1	748
85	Infrared hierarchy, thermal brane inflation and superstrings as superheavy dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 459, 489-496.	4.1	60
86	Large N domain walls as D-branes for = 1 QCD string. Nuclear Physics B, 1999, 537, 297-316.	2.5	29
87	BPS domain walls in large-N supersymmetric QCD. Nuclear Physics B, 1999, 562, 158-180.	2.5	48
88	Phenomenology, astrophysics, and cosmology of theories with submillimeter dimensions and TeV scale quantum gravity. Physical Review D, 1999, 59, .	4.7	1,861
89	The hierarchy problem and new dimensions at a millimeter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 429, 263-272.	4.1	5,164
90	New dimensions at a millimeter to a fermi and superstrings at a TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 436, 257-263.	4.1	3,474

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91	Role of the AnomalousU(1)Afor the Solution of the Doubletâ€“Triplet Splitting Problem via the Pseudo-Goldstone Mechanism. Physical Review Letters, 1997, 78, 807-810.	7.8	38
92	Anomalous U(1) as a Mediator of Supersymmetry Breaking. Physical Review Letters, 1996, 77, 3728-3731.	7.8	177
93	Nonrestoration of spontaneously brokenPandCPat high temperature. Physical Review D, 1996, 54, 7857-7866.	4.7	38
94	Is There a Domain Wall Problem?. Physical Review Letters, 1995, 74, 5178-5181.	7.8	65
95	Symmetry Nonrestoration at High Temperature and the Monopole Problem. Physical Review Letters, 1995, 75, 4559-4562.	7.8	71
96	Electroweak global strings with flux tubes. Physical Review Letters, 1993, 71, 2376-2379.	7.8	39