

Gia Dvali

List of Publications by Year in descending order

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96
papers

20,942
citations

61945

43
h-index

48277

88
g-index

96
all docs

96
docs citations

96
times ranked

7919
citing authors

#	ARTICLE	IF	CITATIONS
1	The hierarchy problem and new dimensions at a millimeter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 429, 263-272.	1.5	5,164
2	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.	1.5	3,474
3	4D gravity on a brane in 5D Minkowski space. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 485, 208-214.	1.5	2,864
4	Phenomenology, astrophysics, and cosmology of theories with submillimeter dimensions and TeV scale quantum gravity. Physical Review D, 1999, 59, .	1.6	1,861
5	Accelerated universe from gravity leaking to extra dimensions. Physical Review D, 2002, 65, .	1.6	858
6	Brane inflation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 450, 72-82.	1.5	748
7	Gravity on a brane in infinite-volume extra space. Physical Review D, 2001, 63, .	1.6	409
8	Nonperturbative continuity in graviton mass versus perturbative discontinuity. Physical Review D, 2002, 65, .	1.6	401
9	Formation and evolution of cosmic Dstrings. Journal of Cosmology and Astroparticle Physics, 2004, 2004, 010-010.	1.9	274
10	Black holes and large N species solution to the hierarchy problem. Fortschritte Der Physik, 2010, 58, 528-536.	1.5	262
11	Infinitely Large New Dimensions. Physical Review Letters, 2000, 84, 586-589.	2.9	235
12	Degravitation of the cosmological constant and graviton width. Physical Review D, 2007, 76, .	1.6	194
13	Fayet&Iliopoulos terms in supergravity and cosmology. Classical and Quantum Gravity, 2004, 21, 3137-3169.	1.5	180
14	Anomalous U(1) as a Mediator of Supersymmetry Breaking. Physical Review Letters, 1996, 77, 3728-3731.	2.9	177
15	UV-completion by classicalization. Journal of High Energy Physics, 2011, 2011, 1.	1.6	169
16	Diluting the cosmological constant in infinite volume extra dimensions. Physical Review D, 2003, 67, .	1.6	161
17	Changing $\hat{\mu}$ with Time: Implications for Fifth-Force-Type Experiments and Quintessence. Physical Review Letters, 2002, 88, 091303.	2.9	158
18	The accelerated universe and the Moon. Physical Review D, 2003, 68, .	1.6	158

#	ARTICLE	IF	CITATIONS
19	Black holes as critical point of quantum phase transition. European Physical Journal C, 2014, 74, 2752.	1.4	158
20	Power of brane-induced gravity. Physical Review D, 2001, 64, .	1.6	157
21	Black hole bound on the number of species and quantum gravity at CERN LHC. Physical Review D, 2008, 77, .	1.6	157
22	Black hole $\frac{1}{4}$ s $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mn} \rangle 1 \langle / \text{mml:mn} \rangle \langle \text{mml:mo stretchy="false" \rangle \langle / \text{mml:mo} \rangle \langle \text{mml:mi} \rangle N \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ hair. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 419-423.	1.5	152
23	Quantum compositeness of gravity: black holes, AdS and inflation. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 023-023.	1.9	136
24	Scales of gravity. Physical Review D, 2001, 65, .	1.6	133
25	Cascading Gravity: Extending the Dvali-Gabadadze-Porrati Model to Higher Dimension. Physical Review Letters, 2008, 100, 251603.	2.9	130
26	Predictive power of strong coupling in theories with large distance modified gravity. New Journal of Physics, 2006, 8, 326-326.	1.2	113
27	(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.	1.5	111
28	Quantum break-time of de Sitter. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 028-028.	1.9	97
29	D-term strings. Journal of High Energy Physics, 2004, 2004, 035-035.	1.6	93
30	Symmetry Nonrestoration at High Temperature and the Monopole Problem. Physical Review Letters, 1995, 75, 4559-4562.	2.9	71
31	On Exclusion of Positive Cosmological Constant. Fortschritte Der Physik, 2019, 67, 1800092.	1.5	68
32	Quantum Breaking Bound on de Sitter and Swampland. Fortschritte Der Physik, 2019, 67, 1800094.	1.5	67
33	Is There a Domain Wall Problem?. Physical Review Letters, 1995, 74, 5178-5181.	2.9	65
34	Quantum exclusion of positive cosmological constant?. Annalen Der Physik, 2016, 528, 68-73.	0.9	62
35	Scrambling in the black hole portrait. Physical Review D, 2013, 88, .	1.6	61
36	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.	1.5	60

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37	Solitonic D-branes and brane annihilation. <i>Physical Review D</i> , 2003, 67, .	1.6	60
38	Classicalization of gravitons and Goldstones. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	60
39	Physics of trans-Planckian gravity. <i>Physical Review D</i> , 2011, 84, .	1.6	57
40	Cosmic attractors and gauge hierarchy. <i>Physical Review D</i> , 2004, 70, .	1.6	56
41	A comment on brane bending and ghosts in theories with infinite extra dimensions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 484, 129-132.	1.5	55
42	Quantum information and gravity cutoff in theories with species. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 674, 303-307.	1.5	49
43	BPS domain walls in large-N supersymmetric QCD. <i>Nuclear Physics B</i> , 1999, 562, 158-180.	0.9	48
44	Gravitational black hole hair from event horizon supertranslations. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	40
45	Electroweak global strings with flux tubes. <i>Physical Review Letters</i> , 1993, 71, 2376-2379.	2.9	39
46	Topological Mass Generation in Four Dimensions. <i>Physical Review Letters</i> , 2006, 96, 081602.	2.9	39
47	Nonrestoration of spontaneously broken $U(1)$ at high temperature. <i>Physical Review D</i> , 1996, 54, 7857-7866.	1.6	38
48	Role of the Anomalous $U(1)$ for the Solution of the Doublet-Triplet Splitting Problem via the Pseudo-Goldstone Mechanism. <i>Physical Review Letters</i> , 1997, 78, 807-810.	2.9	38
49	Seesaw modification of gravity. <i>Physical Review D</i> , 2003, 67, .	1.6	35
50	Classical limit of black hole quantum N -portrait and BMS symmetry. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 753, 173-177.	1.5	35
51	Braneworld flattening by a cosmological constant. <i>Physical Review D</i> , 2001, 64, .	1.6	33
52	Domain walls as probes of gravity. <i>Physical Review D</i> , 2007, 75, .	1.6	31
53	Ultra-high energy probes of classicalization. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 015-015.	1.9	30
54	Large N domain walls as D-branes for $\mathcal{N} = 1$ QCD string. <i>Nuclear Physics B</i> , 1999, 537, 297-316.	0.9	29

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55	Infrared Lorentz Violation and Slowly Instantaneous Electricity. <i>Physical Review Letters</i> , 2005, 94, 191602.	2.9	29
56	Goldstone origin of black hole hair from supertranslations and criticality. <i>Modern Physics Letters A</i> , 2016, 31, 1630045.	0.5	29
57	Entropy bound and unitarity of scattering amplitudes. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	25
58	Skyrmion black hole hair: Conservation of baryon number by black holes and observable manifestations. <i>Nuclear Physics B</i> , 2016, 913, 1001-1036.	0.9	24
59	Nambu-Goldstone effective theory of information at quantum criticality. <i>Physical Review D</i> , 2015, 92, .	1.6	23
60	Non-thermal Corrections to Hawking Radiation Versus the Information Paradox**. <i>Fortschritte Der Physik</i> , 2016, 64, 106-108.	1.5	23
61	S-Matrix and Anomaly of de Sitter. <i>Symmetry</i> , 2021, 13, 3.	1.1	23
62	Gravity Cutoff in Theories with Large Discrete Symmetries. <i>Physical Review Letters</i> , 2008, 101, 151603.	2.9	22
63	Consistent Lorentz violation in flat and curved space. <i>Physical Review D</i> , 2007, 76, .	1.6	21
64	Non-Pauli-Fierz Massive Gravitons. <i>Physical Review Letters</i> , 2008, 101, 171303.	2.9	21
65	Black Holes as Brains: Neural Networks with Area Law Entropy. <i>Fortschritte Der Physik</i> , 2018, 66, 1800007.	1.5	20
66	Cosmic D-strings as axionic D-term strings. <i>Physical Review D</i> , 2005, 72, .	1.6	19
67	Black hole metamorphosis and stabilization by memory burden. <i>Physical Review D</i> , 2020, 102, .	1.6	18
68	Towards a quantum theory of solitons. <i>Nuclear Physics B</i> , 2015, 901, 338-353.	0.9	17
69	Classicalization and unitarization of wee partons in QCD and gravity: The CGC-black hole correspondence. <i>Physical Review D</i> , 2022, 105, .	1.6	17
70	ON SUB-MILLIMETER FORCES FROM EXTRA DIMENSIONS. <i>Modern Physics Letters A</i> , 2000, 15, 1717-1726.	0.5	16
71	NATURE OF MICROSCOPIC BLACK HOLES AND GRAVITY IN THEORIES WITH PARTICLE SPECIES. <i>International Journal of Modern Physics A</i> , 2010, 25, 602-615.	0.5	16
72	ULTRALIGHT SCALARS AND SPIRAL GALAXIES. <i>Modern Physics Letters A</i> , 2001, 16, 513-530.	0.5	14

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73	Probing quantum geometry at LHC. Journal of High Energy Physics, 2011, 2011, 1.	1.6	13
74	Universality of black hole quantum computing. Fortschritte Der Physik, 2017, 65, 1600111.	1.5	13
75	DILUTING COSMOLOGICAL CONSTANT VIA LARGE DISTANCE MODIFICATION OF GRAVITY. , 2002, , .		13
76	Finding critical states of enhanced memory capacity in attractive cold bosons. EPJ Quantum Technology, 2019, 6, 1.	2.9	12
77	Area law microstate entropy from criticality and spherical symmetry. Physical Review D, 2018, 97, .	1.6	11
78	Unitarity Entropy Bound: Solitons and Instantons. Fortschritte Der Physik, 2021, 69, 2000091.	1.5	11
79	Area Law Saturation of Entropy Bound from Perturbative Unitarity in Renormalizable Theories. Fortschritte Der Physik, 2021, 69, 2000090.	1.5	10
80	Black hole based quantum computing in labs and in the sky. Fortschritte Der Physik, 2016, 64, 569-580.	1.5	9
81	Neutrino probes of dark energy. Nature, 2004, 432, 567-568.	13.7	8
82	Micro black holes and the democratic transition. Physical Review D, 2009, 79, .	1.6	8
83	Universe's primordial quantum memories. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 010-010.	1.9	7
84	NEW OLD INFLATION. , 2005, , 1131-1155.		7
85	Strong Coupling and Classicalization. , 2017, , 189-200.		7
86	CONSTRAINTS ON EXTRA TIME DIMENSIONS. , 2000, , 525-532.		6
87	How special are black holes? Correspondence with objects saturating unitarity bounds in generic theories. Physical Review D, 2022, 105, .	1.6	5
88	Black-hole-like saturons in Gross-Neveu. Physical Review D, 2022, 105, .	1.6	5
89	Bounds on quantum information storage and retrieval. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210071.	1.6	4
90	OBSERVABLE CONSEQUENCES OF STRONG COUPLING IN THEORIES WITH LARGE DISTANCE MODIFIED GRAVITY. International Journal of Modern Physics D, 2007, 16, 2013-2021.	0.9	3

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91	Accelerated Universe and Gravity Modified at Largest Observable Distances. Progress of Theoretical Physics Supplement, 2006, 163, 174-184.	0.2	1
92	On the Gravitational Force on Anti-Matter. Fortschritte Der Physik, 2021, 69, 2000092.	1.5	1
93	OBSERVABLE CONSEQUENCES OF STRONG COUPLING IN THEORIES WITH LARGE DISTANCE MODIFIED GRAVITY. , 2009, , 139-147.		1
94	Erice Lecture on Microscopic Gravity. , 2011, , .		0
95	On Quantum Life of Black Holes. Foundations of Physics, 2018, 48, 1219-1225.	0.6	0
96	Nature of Microscopic Black Holes and Gravity in Theories with Particle Species. , 2010, , .		0