

Alex Buchel

List of Publications by Year in descending order

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115
papers

5,065
citations

76326

40
h-index

91884

69
g-index

116
all docs

116
docs citations

116
times ranked

1317
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical fixed points in holography. Journal of High Energy Physics, 2022, 2022, 1.	4.7	3
2	Fate of the conformal order. Physical Review D, 2021, 103, .	4.7	10
3	Holographic conformal order in supergravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136111.	4.1	8
4	A bestiary of black holes on the conifold with fluxes. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
5	Thermal order in holographic CFTs and no-hair theorem violation in black branes. Nuclear Physics B, 2021, 967, 115425.	2.5	9
6	Stabilization of the extended horizons. Physical Review D, 2021, 104, .	4.7	1
7	Compactified holographic conformal order. Nuclear Physics B, 2021, 973, 115605.	2.5	4
8	On branches of the KS black hole. Nuclear Physics B, 2020, 957, 115094.	2.5	2
9	IRSB of cascading gauge theory in de Sitter. Journal of High Energy Physics, 2020, 2020, 1.	4.7	9
10	QGP universality in a magnetic field?. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
11	Holographic viscoelastic hydrodynamics. Journal of High Energy Physics, 2019, 2019, 1.	4.7	20
12	Entanglement entropy of N de Sitter vacuum. Nuclear Physics B, 2019, 948, 114769.	2.5	19
13	Klebanov-Strassler black hole. Journal of High Energy Physics, 2019, 2019, 1.	4.7	21
14	Ringing in de Sitter spacetime. Nuclear Physics B, 2018, 928, 307-320.	2.5	11
15	Non-conformal holographic Gauss-Bonnet hydrodynamics. Journal of High Energy Physics, 2018, 2018, 1.	4.7	7
16	Sensitivity of holographic N SYM plasma hydrodynamics to finite coupling corrections. Physical Review D, 2018, 98, .	4.7	5
17	De Sitter vacua of strongly interacting QFT. Journal of High Energy Physics, 2017, 2017, 1.	4.7	13
18	Universality of small black hole instability in AdS/CFT. International Journal of Modern Physics D, 2017, 26, 1750140.	2.1	5

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19	Unstable horizons and singularity development in holography. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
20	Singularity development and supersymmetry in holography. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
21	Entropy production, hydrodynamics, and resurgence in the primordial quark-gluon plasma from holography. Physical Review D, 2016, 94, .	4.7	63
22	Universal relaxation in quark-gluon plasma at strong coupling. Physical Review D, 2015, 92, .	4.7	5
23	Equilibration Rates in a Strongly Coupled Nonconformal Quark-Gluon Plasma. Physical Review Letters, 2015, 114, 251601.	7.8	56
24	Balasubramanian et al. Reply. Physical Review Letters, 2015, 115, 049102.	7.8	23
25	Black hole spectra in holography: Consequences for equilibration of dual gauge theories. Nuclear Physics B, 2015, 896, 587-610.	2.5	5
26	Conserved quantities and dual turbulent cascades in anti-de Sitter spacetime. Physical Review D, 2015, 91, .	4.7	30
27	Nonlocal probes of thermalization in holographic quenches with spectral methods. Journal of High Energy Physics, 2015, 2015, 1.	4.7	32
28	Small black holes in AdS_5 — S^5 . Classical and Quantum Gravity, 2015, 32, 145003.	4.0	17
29	Effective action of the baryonic branch in string theory flux throats. Journal of High Energy Physics, 2014, 2014, 1.	4.7	5
30	Holographic Thermalization, Stability of Anti-de Sitter Space, and the Fermi-Pasta-Ulam Paradox. Physical Review Letters, 2014, 113, 071601.	7.8	109
31	Cascading gauge theory on dS_4 and String Theory landscape. Nuclear Physics B, 2014, 883, 107-148.	2.5	18
32	On consistent truncations in $\mathcal{N} = 2^*$ holography. Journal of High Energy Physics, 2014, 2014, 1.	4.7	8
33	Cavitation effects on the confinement/deconfinement transition. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 734, 131-133.	4.1	3
34	Localization and holography in $\mathcal{N} = 2$ gauge theories. Journal of High Energy Physics, 2013, 2013, 1.	4.7	8
35	Quantum quenches of holographic plasmas. Journal of High Energy Physics, 2013, 2013, 1.	4.7	81
36	Rigorous test of non-conformal holography: Wilson loops in $\mathcal{N} = 2^*$ theory. Journal of High Energy Physics, 2013, 2013, 1.	4.7	62

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37	Horizons cannot save the landscape. Physical Review D, 2013, 87, .	4.7	24
38	Universality of Abrupt Holographic Quenches. Physical Review Letters, 2013, 111, 201602.	7.8	66
39	Boson stars in AdS spacetime. Physical Review D, 2013, 87, .	4.7	98
40	Violation of the holographic bulk viscosity bound. Physical Review D, 2012, 85, .	4.7	11
41	Scalar collapse in AdS spacetimes. Physical Review D, 2012, 86, .	4.7	71
42	Thermal quenches in $\mathcal{N}=4$ plasmas. Journal of High Energy Physics, 2012, 2012, 1.	4.7	86
43	Quantum phase transitions in cascading gauge theory. Nuclear Physics B, 2012, 856, 278-327.	2.5	11
44	$\mathcal{N}=4$ in cascading gauge theory plasma. Nuclear Physics B, 2011, 847, 297-324.	2.5	18
45	Eling-Oz formula for the holographic bulk viscosity. Journal of High Energy Physics, 2011, 2011, 1.	4.7	12
46	Can the correlated stability conjecture be saved?. Journal of High Energy Physics, 2011, 2011, 1.	4.7	4
47	Holographic bulk viscosity: GPR vs EO. Journal of High Energy Physics, 2011, 2011, 1.	4.7	8
48	Correlated stability conjecture revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 697, 168-172.	4.1	12
49	Critical phenomena in $\mathcal{N}=4$ plasmas. Physical Review D, 2011, 83, .	4.7	15
50	Holographic GB gravity in arbitrary dimensions. Journal of High Energy Physics, 2010, 2010, 1.	4.7	260
51	Viscosity bound and causality in superfluid plasma. Journal of High Energy Physics, 2010, 2010, 1.	4.7	29
52	RADIATIVE CORRECTIONS IN VECTOR-TENSOR MODELS. International Journal of Modern Physics A, 2010, 25, 163-169.	1.5	5
53	Exotic hairy black holes. Nuclear Physics B, 2010, 824, 85-94.	2.5	39
54	Transport at criticality. Nuclear Physics B, 2010, 834, 222-236.	2.5	22

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55	Critical phenomena in SYM plasma. Nuclear Physics B, 2010, 841, 59-99.	2.5	21
56	Causality of holographic hydrodynamics. Journal of High Energy Physics, 2009, 2009, 016-016.	4.7	132
57	Relativistic conformal magneto-hydrodynamics from holography. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 678, 135-138.	4.1	9
58	sQGP as hCFT. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680, 521-525.	4.1	12
59	Relaxation time of non-conformal plasma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 681, 200-203.	4.1	24
60	Beyond $\hat{s} = 1/4\hat{\epsilon}$. Journal of High Energy Physics, 2009, 2009, 084-084.	4.7	222
61	Second order hydrodynamics of a CFT plasma from boost invariant expansion. Nuclear Physics B, 2009, 810, 40-65.	2.5	39
62	Bulk viscosity of $N=4$ SYM plasma. Nuclear Physics B, 2009, 816, 62-72.	2.5	42
63	Hydrodynamics of the cascading plasma. Nuclear Physics B, 2009, 820, 385-416.	2.5	30
64	Fate of sound and diffusion in a holographic magnetic field. Physical Review D, 2009, 79, .	4.7	11
65	Bulk viscosity of gauge theory plasma at strong coupling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 663, 286-289.	4.1	162
66	Shear viscosity of CFT plasma at finite coupling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 665, 298-304.	4.1	40
67	Universal holographic hydrodynamics at finite coupling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 669, 364-370.	4.1	109
68	Shear viscosity of boost invariant plasma at finite coupling. Nuclear Physics B, 2008, 802, 281-306.	2.5	58
69	Resolving disagreement for in a CFT plasma at finite coupling. Nuclear Physics B, 2008, 803, 166-170.	2.5	104
70	Relaxation time of a CFT plasma at finite coupling. Nuclear Physics B, 2008, 805, 59-71.	2.5	52
71	Supergravity description of boost invariant conformal plasma at strong coupling. Physical Review D, 2008, 77, .	4.7	40
72	Black universe epoch in string cosmology. Physical Review D, 2008, 78, .	4.7	3

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73	On Supergravity Description of Boost-Invariant Conformal Plasma at Strong Coupling. AIP Conference Proceedings, 2008, , .	0.4	5
74	Sound waves in (2+1) dimensional holographic magnetic fluids. Journal of High Energy Physics, 2008, 2008, 090-090.	4.7	22
75	Black hole in the throat: Thermodynamics of strongly coupled cascading gauge theories. Physical Review D, 2007, 76, .	4.7	53
76	Gauged supergravity from type IIB string theory on manifolds. Nuclear Physics B, 2007, 771, 93-112.	2.5	76
77	Dynamical stabilization of runaway potentials and landscape of vacua at finite density. Nuclear Physics B, 2007, 772, 323-339.	2.5	2
78	Thermodynamics of the strongly coupled plasma. Nuclear Physics B, 2007, 784, 72-102.	2.5	63
79	The shear viscosity of gauge theory plasma with chemical potentials. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 645, 309-313.	4.1	82
80	Dynamical stabilization of runaway potentials at finite density. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 647, 305-308.	4.1	8
81	Inflation on the resolved warped deformed conifold. Physical Review D, 2006, 74, .	4.7	10
82	Jet quenching parameters in strongly coupled nonconformal gauge theories. Physical Review D, 2006, 74, .	4.7	67
83	Sound waves in strongly coupled non-conformal gauge theory plasma. Nuclear Physics B, 2006, 733, 160-187.	2.5	119
84	Higher derivative corrections to near-extremal black holes in type IIB supergravity. Nuclear Physics B, 2006, 750, 45-72.	2.5	16
85	Hydrodynamics of Sakai's Sugimoto model in the quenched approximation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 640, 108-115.	4.1	59
86	Transport properties of Script N = 4 supersymmetric Yang-Mills theory at finite coupling. Journal of High Energy Physics, 2006, 2006, 103-103.	4.7	87
87	Short distance properties of cascading gauge theories. Journal of High Energy Physics, 2006, 2006, 069-069.	4.7	21
88	COARSE-GRAINING 1/2 BPS GEOMETRIES OF TYPE IIB SUPERGRAVITY. International Journal of Modern Physics A, 2006, 21, 3495-3502.	1.5	15
89	On universality of stress-energy tensor correlation functions in supergravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 609, 392-401.	4.1	149
90	Holographic renormalization of cascading gauge theories. Physical Review D, 2005, 72, .	4.7	70

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91	Transport properties of cascading gauge theories. Physical Review D, 2005, 72, .	4.7	66
92	hydrodynamics. Nuclear Physics B, 2005, 708, 451-466.	2.5	63
93	Coupling constant dependence of the shear viscosity in supersymmetric Yang-Mills theory. Nuclear Physics B, 2005, 707, 56-68.	2.5	259
94	A holographic perspective on Gubser-Mitra conjecture. Nuclear Physics B, 2005, 731, 109-124.	2.5	45
95	Gauge theories on hyperbolic spaces and dual wormhole instabilities. Physical Review D, 2004, 70, .	4.7	20
96	Effective action of string theory flux compactifications. Physical Review D, 2004, 69, .	4.7	19
97	Universality of the Shear Viscosity from Supergravity Duals. Physical Review Letters, 2004, 93, 090602.	7.8	415
98	Inflation in warped geometries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 590, 284-294.	4.1	44
99	Braneworld inflation. Physical Review D, 2004, 70, .	4.7	31
100	ON EFFECTIVE ACTION OF STRING THEORY FLUX COMPACTIFICATIONS. , 2004, , .		0
101	Compactifications of the $N=2$ flow. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 570, 89-95.	4.1	16
102	Hagedorn versus Hawking-Page transition in string theory. Physical Review D, 2003, 68, .	4.7	25
103	Gauge-string correspondence in curved space. Physical Review D, 2003, 67, .	4.7	13
104	Time-dependent backgrounds in supergravity and string theory. Physical Review D, 2003, 67, .	4.7	33
105	Thermodynamics of the Script $N = 2^*$ flow. Journal of High Energy Physics, 2003, 2003, 031-031.	4.7	72
106	Comments on supergravity description of S-branes. Journal of High Energy Physics, 2003, 2003, 069-069.	4.7	29
107	Review of D-Branes by Clifford V. Johnson. Cambridge University Press 2002.. SIGSAM Bulletin: A Quarterly Publication of the Special Interest Group on Symbolic & Algebraic Manipulation, 2003, 37, 125-127.	0.3	0
108	Gauge-gravity correspondence in an accelerating universe. Physical Review D, 2002, 65, .	4.7	33

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109	Does the Tachyon Matter?. Annals of Physics, 2002, 302, 78-87.	2.8	62
110	Finite temperature resolution of the Klebanov-Tseytlin singularity. Nuclear Physics B, 2001, 600, 219-234.	2.5	76
111	Comments on fractional instantons in gauge theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 514, 417-425.	4.1	3
112	Gauge dual and noncommutative extension of an $N=2$ supergravity solution. Physical Review D, 2001, 63, .	4.7	124
113	Comments on supergravity dual of pure $N=1$ super Yang-Mills theory with unbroken chiral symmetry. Physical Review D, 2001, 64, .	4.7	15
114	Statistical mechanics of cracks: Fluctuations, breakdown, and asymptotics of elastic theory. Physical Review E, 1997, 55, 7669-7690.	2.1	40
115	Elastic Theory Has Zero Radius of Convergence. Physical Review Letters, 1996, 77, 1520-1523.	7.8	39