

# 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	Universality of the Shear Viscosity from Supergravity Duals. <i>Physical Review Letters</i> , 2004, 93, 090602.	7.8	415
2	Holographic GB gravity in arbitrary dimensions. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	260
3	Coupling constant dependence of the shear viscosity in supersymmetric Yang-Mills theory. <i>Nuclear Physics B</i> , 2005, 707, 56-68.	2.5	259
4	Beyond $\hat{c}_s = 1/4$ . <i>Journal of High Energy Physics</i> , 2009, 2009, 084-084.	4.7	222
5	Bulk viscosity of gauge theory plasma at strong coupling. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 663, 286-289.	4.1	162
6	On universality of stress-energy tensor correlation functions in supergravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 609, 392-401.	4.1	149
7	Causality of holographic hydrodynamics. <i>Journal of High Energy Physics</i> , 2009, 2009, 016-016.	4.7	132
8	Gauge dual and noncommutative extension of an $N=2$ supergravity solution. <i>Physical Review D</i> , 2001, 63, .	4.7	124
9	Sound waves in strongly coupled non-conformal gauge theory plasma. <i>Nuclear Physics B</i> , 2006, 733, 160-187.	2.5	119
10	Universal holographic hydrodynamics at finite coupling. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 669, 364-370.	4.1	109
11	Holographic Thermalization, Stability of Anti-de Sitter Space, and the Fermi-Pasta-Ulam Paradox. <i>Physical Review Letters</i> , 2014, 113, 071601.	7.8	109
12	Resolving disagreement for in a CFT plasma at finite coupling. <i>Nuclear Physics B</i> , 2008, 803, 166-170.	2.5	104
13	Boson stars in AdS spacetime. <i>Physical Review D</i> , 2013, 87, .	4.7	98
14	Transport properties of Script $N = 4$ supersymmetric Yang-Mills theory at finite coupling. <i>Journal of High Energy Physics</i> , 2006, 2006, 103-103.	4.7	87
15	Thermal quenches in $\mathcal{N} = 2^*$ plasmas. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	86
16	The shear viscosity of gauge theory plasma with chemical potentials. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007, 645, 309-313.	4.1	82
17	Quantum quenches of holographic plasmas. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	81
18	Finite temperature resolution of the Klebanov-Tseytlin singularity. <i>Nuclear Physics B</i> , 2001, 600, 219-234.	2.5	76

#	ARTICLE	IF	CITATIONS
19	Gauged supergravity from type IIB string theory on manifolds. Nuclear Physics B, 2007, 771, 93-112.	2.5	76
20	Thermodynamics of the Script $N = 2^*$ flow. Journal of High Energy Physics, 2003, 2003, 031-031.	4.7	72
21	Scalar collapse in AdS spacetimes. Physical Review D, 2012, 86, .	4.7	71
22	Holographic renormalization of cascading gauge theories. Physical Review D, 2005, 72, .	4.7	70
23	Jet quenching parameters in strongly coupled nonconformal gauge theories. Physical Review D, 2006, 74, .	4.7	67
24	Transport properties of cascading gauge theories. Physical Review D, 2005, 72, .	4.7	66
25	Universality of Abrupt Holographic Quenches. Physical Review Letters, 2013, 111, 201602.	7.8	66
26	hydrodynamics. Nuclear Physics B, 2005, 708, 451-466.	2.5	63
27	Thermodynamics of the strongly coupled plasma. Nuclear Physics B, 2007, 784, 72-102.	2.5	63
28	Entropy production, hydrodynamics, and resurgence in the primordial quark-gluon plasma from holography. Physical Review D, 2016, 94, .	4.7	63
29	Does the Tachyon Matter?. Annals of Physics, 2002, 302, 78-87.	2.8	62
30	Rigorous test of non-conformal holography: Wilson loops in $\mathcal{N} = 2^*$ theory. Journal of High Energy Physics, 2013, 2013, 1.	4.7	62
31	Hydrodynamics of Sakai–Sugimoto model in the quenched approximation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 640, 108-115.	4.1	59
32	Shear viscosity of boost invariant plasma at finite coupling. Nuclear Physics B, 2008, 802, 281-306.	2.5	58
33	Equilibration Rates in a Strongly Coupled Nonconformal Quark-Gluon Plasma. Physical Review Letters, 2015, 114, 251601.	7.8	56
34	Black hole in the throat: Thermodynamics of strongly coupled cascading gauge theories. Physical Review D, 2007, 76, .	4.7	53
35	Relaxation time of a CFT plasma at finite coupling. Nuclear Physics B, 2008, 805, 59-71.	2.5	52
36	A holographic perspective on Gubser–Mitra conjecture. Nuclear Physics B, 2005, 731, 109-124.	2.5	45

#	ARTICLE	IF	CITATIONS
37	Inflation in warped geometries. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 590, 284-294.	4.1	44
38	Bulk viscosity of $N$ plasma. <i>Nuclear Physics B</i> , 2009, 816, 62-72.	2.5	42
39	Statistical mechanics of cracks: Fluctuations, breakdown, and asymptotics of elastic theory. <i>Physical Review E</i> , 1997, 55, 7669-7690.	2.1	40
40	Shear viscosity of CFT plasma at finite coupling. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 665, 298-304.	4.1	40
41	Supergravity description of boost invariant conformal plasma at strong coupling. <i>Physical Review D</i> , 2008, 77, .	4.7	40
42	Elastic Theory Has Zero Radius of Convergence. <i>Physical Review Letters</i> , 1996, 77, 1520-1523.	7.8	39
43	Second order hydrodynamics of a CFT plasma from boost invariant expansion. <i>Nuclear Physics B</i> , 2009, 810, 40-65.	2.5	39
44	Exotic hairy black holes. <i>Nuclear Physics B</i> , 2010, 824, 85-94.	2.5	39
45	Gauge-gravity correspondence in an accelerating universe. <i>Physical Review D</i> , 2002, 65, .	4.7	33
46	Time-dependent backgrounds in supergravity and string theory. <i>Physical Review D</i> , 2003, 67, .	4.7	33
47	Nonlocal probes of thermalization in holographic quenches with spectral methods. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	32
48	Braneworld inflation. <i>Physical Review D</i> , 2004, 70, .	4.7	31
49	Hydrodynamics of the cascading plasma. <i>Nuclear Physics B</i> , 2009, 820, 385-416.	2.5	30
50	Conserved quantities and dual turbulent cascades in anti-de Sitter spacetime. <i>Physical Review D</i> , 2015, 91, .	4.7	30
51	Comments on supergravity description of S-branes. <i>Journal of High Energy Physics</i> , 2003, 2003, 069-069.	4.7	29
52	Viscosity bound and causality in superfluid plasma. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	29
53	Hagedorn versus Hawking-Page transition in string theory. <i>Physical Review D</i> , 2003, 68, .	4.7	25
54	Relaxation time of non-conformal plasma. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 681, 200-203.	4.1	24

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55	Horizons cannot save the landscape. <i>Physical Review D</i> , 2013, 87, .	4.7	24
56	Balasubramanian et al. Reply. <i>Physical Review Letters</i> , 2015, 115, 049102.	7.8	23
57	Sound waves in (2+1) dimensional holographic magnetic fluids. <i>Journal of High Energy Physics</i> , 2008, 2008, 090-090.	4.7	22
58	Transport at criticality. <i>Nuclear Physics B</i> , 2010, 834, 222-236.	2.5	22
59	Short distance properties of cascading gauge theories. <i>Journal of High Energy Physics</i> , 2006, 2006, 069-069.	4.7	21
60	Critical phenomena in SYM plasma. <i>Nuclear Physics B</i> , 2010, 841, 59-99.	2.5	21
61	Klebanov-Strassler black hole. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	21
62	Gauge theories on hyperbolic spaces and dual wormhole instabilities. <i>Physical Review D</i> , 2004, 70, .	4.7	20
63	Holographic viscoelastic hydrodynamics. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	20
64	Effective action of string theory flux compactifications. <i>Physical Review D</i> , 2004, 69, .	4.7	19
65	$\mathbb{Z}_2$ SB in cascading gauge theory plasma. <i>Nuclear Physics B</i> , 2011, 847, 297-324.	2.5	18
66	Cascading gauge theory on $AdS_5 \times S^5$ and String Theory landscape. <i>Nuclear Physics B</i> , 2014, 883, 107-148.	2.5	18
67	Small black holes in $AdS_5 \times S^5$ . <i>Classical and Quantum Gravity</i> , 2015, 32, 145003.	4.0	17
68	Compactifications of the $N=2$ flow. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 570, 89-95.	4.1	16
69	Higher derivative corrections to near-extremal black holes in type IIB supergravity. <i>Nuclear Physics B</i> , 2006, 750, 45-72.	2.5	16
70	Comments on supergravity dual of pure $N=1$ super Yang-Mills theory with unbroken chiral symmetry. <i>Physical Review D</i> , 2001, 64, .	4.7	15
71	COARSE-GRAINING $1/2$ BPS GEOMETRIES OF TYPE IIB SUPERGRAVITY. <i>International Journal of Modern Physics A</i> , 2006, 21, 3495-3502.	1.5	15
72	Unstable horizons and singularity development in holography. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	14

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73	Gauge-string correspondence in curved space. <i>Physical Review D</i> , 2003, 67, .	4.7	13
74	De Sitter vacua of strongly interacting QFT. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	13
75	sQGP as hCFT. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 680, 521-525.	4.1	12
76	Eling-Oz formula for the holographic bulk viscosity. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	12
77	Correlated stability conjecture revisited. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 697, 168-172.	4.1	12
78	Fate of sound and diffusion in a holographic magnetic field. <i>Physical Review D</i> , 2009, 79, .	4.7	11
79	Violation of the holographic bulk viscosity bound. <i>Physical Review D</i> , 2012, 85, .	4.7	11
80	Quantum phase transitions in cascading gauge theory. <i>Nuclear Physics B</i> , 2012, 856, 278-327.	2.5	11
81	Ringing in de Sitter spacetime. <i>Nuclear Physics B</i> , 2018, 928, 307-320.	2.5	11
82	Inflation on the resolved warped deformed conifold. <i>Physical Review D</i> , 2006, 74, .	4.7	10
83	Entanglement entropy of $N$ de Sitter vacuum. <i>Nuclear Physics B</i> , 2019, 948, 114769.	2.5	10
84	Fate of the conformal order. <i>Physical Review D</i> , 2021, 103, .	4.7	10
85	Relativistic conformal magneto-hydrodynamics from holography. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 678, 135-138.	4.1	9
86	Thermal order in holographic CFTs and no-hair theorem violation in black branes. <i>Nuclear Physics B</i> , 2021, 967, 115425.	2.5	9
87	IRSB of cascading gauge theory in de Sitter. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	9
88	Dynamical stabilization of runaway potentials at finite density. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007, 647, 305-308.	4.1	8
89	Holographic bulk viscosity: GPR vs EO. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	8
90	Localization and holography in $N=2$ gauge theories. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	8

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91	On consistent truncations in $\mathcal{N} = 2^*$ holography. Journal of High Energy Physics, 2014, 2014, 1.	4.7	8
92	Singularity development and supersymmetry in holography. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
93	Holographic conformal order in supergravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136111.	4.1	8
94	Non-conformal holographic Gauss-Bonnet hydrodynamics. Journal of High Energy Physics, 2018, 2018, 1.	4.7	7
95	On Supergravity Description of Boost-Invariant Conformal Plasma at Strong Coupling. AIP Conference Proceedings, 2008, , .	0.4	5
96	RADIATIVE CORRECTIONS IN VECTOR-TENSOR MODELS. International Journal of Modern Physics A, 2010, 25, 163-169.	1.5	5
97	Critical phenomena in $\langle \mathcal{N} \rangle$ . Physical Review D, 2011, 83, .	4.7	5
98	Effective action of the baryonic branch in string theory flux throats. Journal of High Energy Physics, 2014, 2014, 1.	4.7	5
99	Universal relaxation in quark-gluon plasma at strong coupling. Physical Review D, 2015, 92, .	4.7	5
100	Black hole spectra in holography: Consequences for equilibration of dual gauge theories. Nuclear Physics B, 2015, 896, 587-610.	2.5	5
101	Universality of small black hole instability in AdS/CFT. International Journal of Modern Physics D, 2017, 26, 1750140.	2.1	5
102	Sensitivity of holographic $\langle \mathcal{N} \rangle$ to finite coupling corrections. Physical Review D, 2018, 98, .	4.7	5
103	Can the correlated stability conjecture be saved?. Journal of High Energy Physics, 2011, 2011, 1.	4.7	4
104	A bestiary of black holes on the conifold with fluxes. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
105	Compactified holographic conformal order. Nuclear Physics B, 2021, 973, 115605.	2.5	4
106	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
107	Black universe epoch in string cosmology. Physical Review D, 2008, 78, .	4.7	3
108	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

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109	Dynamical fixed points in holography. Journal of High Energy Physics, 2022, 2022, 1.	4.7	3
110	Dynamical stabilization of runaway potentials and landscape of vacua at finite density. Nuclear Physics B, 2007, 772, 323-339.	2.5	2
111	On branches of the KS black hole. Nuclear Physics B, 2020, 957, 115094.	2.5	2
112	QGP universality in a magnetic field?. Journal of High Energy Physics, 2020, 2020, 1.	4.7	2
113	Stabilization of the extended horizons. Physical Review D, 2021, 104, .	4.7	1
114	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
115	ON EFFECTIVE ACTION OF STRING THEORY FLUX COMPACTIFICATIONS. , 2004, , .		0