

# Anton Rebhan

## List of Publications by Year in descending order

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138  
papers

4,998  
citations

94433

37  
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141  
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141  
docs citations

141  
times ranked

1308  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hadronic vacuum polarization contribution to the muon $g_{\mu}^{\text{had}}$ in holographic QCD. Physical Review D, 2022, 105, .	4.7	3
2	Neutron stars and phase diagram in a hard-wall AdS/QCD model. Physical Review D, 2022, 105, .	4.7	8
3	Central exclusive diffractive production of axial-vector $f_1$ mesons in proton-proton collisions. SciPost Physics Proceedings, 2022, .	0.4	0
4	Quasinormal modes of a semi-holographic black brane and thermalization. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
5	Hadronic light-by-light contribution to the muon $g_{\mu}^{\text{had}}$ from holographic QCD with massive pions. Physical Review D, 2021, 104, .	4.7	12
6	Holographic QCD and the muon anomalous magnetic moment. European Physical Journal C, 2021, 81, 1008.	3.9	7
7	Witten-Veneziano mechanism and pseudoscalar glueball-meson mixing in holographic QCD. Physical Review D, 2020, 101, .	4.7	16
8	Axial vector transition form factors in holographic QCD and their contribution to the anomalous magnetic moment of the muon. Physical Review D, 2020, 101, .	4.7	25
9	$\langle \text{Tr} T_{\mu\nu} \rangle$ in holographic QCD with massive pions. Physical Review D, 2020, 102, .	4.7	12
10	Hydrodynamic attractor of a hybrid viscous fluid in Bjorken flow. Physical Review Research, 2020, 2, .	3.6	7
11	A broad pseudovector glueball from holographic QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 788, 431-435.	4.1	12
12	Pseudoscalar transition form factors and the hadronic light-by-light contribution to the anomalous magnetic moment of the muon from holographic QCD. Physical Review D, 2019, 100, .	4.7	14
13	Time evolution of a toy semiholographic glasma. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
14	Hybrid fluid models from mutual effective metric couplings. Journal of High Energy Physics, 2018, 2018, 1.	4.7	9
15	Light-by-light scattering in the presence of magnetic fields. Physical Review D, 2018, 98, .	4.7	6
16	Polarization effects in light-by-light scattering: Euler-Heisenberg versus Born-Infeld. International Journal of Modern Physics A, 2017, 32, 1750053.	1.5	15
17	Holographic QCD predictions for production and decay of pseudoscalar glueballs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 124-130.	4.1	16
18	Top-down holographic glueball decay rates. AIP Conference Proceedings, 2016, .	0.4	2

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19	Semi-holography for heavy ion collisions: self-consistency and first numerical tests. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
20	Glueball decay rates in the Witten-Sakai-Sugimoto model. Physical Review D, 2015, 91, .	4.7	69
21	Constraints on the $\hat{I}$ rate of a scalar glueball from gauge/gravity duality. Physical Review D, 2015, 92, .	4.7	47
22	Nonchiral Enhancement of Scalar Glueball Decay in the Witten-Sakai-Sugimoto Model. Physical Review Letters, 2015, 115, 131601.	7.8	41
23	The Witten-Sakai-Sugimoto model: A brief review and some recent results. EPJ Web of Conferences, 2015, 95, 02005.	0.3	33
24	Instabilities of an anisotropically expanding non-Abelian plasma: 3D+3V discretized hard-loop simulations. Physical Review D, 2013, 87, .	4.7	43
25	Inverse Magnetic Catalysis in Field Theory and Gauge-Gravity Duality. Lecture Notes in Physics, 2013, , 51-86.	0.7	52
26	The Chromo-Weibel Instability in an Expanding Background. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 393.	0.1	1
27	Chiral transition in dense, magnetized matter. , 2012, , .		1
28	Holographic baryonic matter in a background magnetic field. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 054006.	3.6	37
29	Probing two holographic models of strongly coupled anisotropic plasma. Journal of High Energy Physics, 2012, 2012, 1.	4.7	28
30	Thermodynamics and phase diagram of anisotropic Chern-Simons deformed gauge theories. Journal of High Energy Physics, 2012, 2012, 1.	4.7	6
31	Violation of the Holographic Viscosity Bound in a Strongly Coupled Anisotropic Plasma. Physical Review Letters, 2012, 108, 021601.	7.8	174
32	Non-Abelian plasma instabilities: SU(3) versus SU(2). Physical Review D, 2011, 84, .	4.7	34
33	Perturbative and non-perturbative Kolmogorov turbulence in a gluon plasma. European Physical Journal C, 2011, 71, 1.	3.9	19
34	Holographic anomalous conductivities and the chiral magnetic effect. Journal of High Energy Physics, 2011, 2011, 1.	4.7	115
35	Inverse magnetic catalysis in dense holographic matter. Journal of High Energy Physics, 2011, 2011, 1.	4.7	171
36	Electromagnetic signatures of a strongly coupled anisotropic plasma. Journal of High Energy Physics, 2011, 2011, 1.	4.7	38

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37	Plasma Instabilities in Heavy Ion Collisions. , 2011, , .		0
38	Anomalies and the chiral magnetic effect in the Sakai-Sugimoto model. Journal of High Energy Physics, 2010, 2010, 1.	4.7	121
39	Holographic Chiral Currents in a Magnetic Field. Progress of Theoretical Physics Supplement, 2010, 186, 463-470.	0.1	6
40	Collective modes and instabilities in anisotropically expanding ultrarelativistic plasmas. Physical Review D, 2010, 81, .	4.7	29
41	Meson supercurrents and the Meissner effect in the Sakai-Sugimoto model. Journal of High Energy Physics, 2009, 2009, 084-084.	4.7	37
42	Nonabelian plasma instabilities in Bjorken expansion. Nuclear Physics A, 2009, 820, 123c-126c.	1.5	0
43	Hard loop effective theory of the (anisotropic) quark gluon plasma. Progress in Particle and Nuclear Physics, 2009, 62, 518-528.	14.4	1
44	Imaginary part of the next-to-leading-order static gluon self-energy in an anisotropic plasma. Physical Review D, 2009, 80, .	4.7	1
45	Next-to-leading order static gluon self-energy for anisotropic plasmas. Physical Review D, 2009, 79, .	4.7	9
46	One-loop results for kink and domain wall profiles at zero and finite temperature. Physical Review D, 2009, 80, .	4.7	6
47	Instabilities of an anisotropically expanding non-Abelian plasma: $D > 1 < 3 < V$ discretized hard-loop simulations. Physical Review D, 2008, 78, .	4.7	66
48	Unified description of deconfined QCD equation of state. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, S631-S634.	3.6	3
49	Perturbative quantum corrections to the supersymmetric CP1 kink with twisted mass. Journal of High Energy Physics, 2007, 2007, 069-069.	4.7	5
50	Hard thermal loops and the entropy of supersymmetric Yang-Mills theories. Journal of High Energy Physics, 2007, 2007, 035-035.	4.7	31
51	Pressure of deconfined QCD for all temperatures and quark chemical potentials. Physical Review D, 2006, 74, .	4.7	51
52	Quantum mass and central charge of supersymmetric monopoles: anomalies, current renormalization, and surface terms. Journal of High Energy Physics, 2006, 2006, 056-056.	4.7	12
53	Study of the gluon propagator in the large- $N_f$ limit at finite temperature and chemical potential for weak and strong couplings. Annals of Physics, 2006, 321, 2128-2155.	2.8	8
54	BPS saturation of the $\langle \mathcal{O} \rangle$ in the large- $N_f$ limit at finite temperature and chemical potential. Physical Review D, 2006, 74, .	4.1	10

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55	Plasma Instabilities in an Anisotropically Expanding Geometry. <i>Physical Review Letters</i> , 2006, 97, 252301.	7.8	57
56	BOUNDARY TERMS IN SUPERGRAVITY AND SUPERSYMMETRY. <i>International Journal of Modern Physics D</i> , 2006, 15, 1643-1658.	2.1	8
57	Dynamics of quark-gluon-plasma instabilities in discretized hard-loop approximation. <i>Journal of High Energy Physics</i> , 2005, 2005, 041-041.	4.7	105
58	Hard-Loop Dynamics of Non-Abelian Plasma Instabilities. <i>Physical Review Letters</i> , 2005, 94, 102303.	7.8	171
59	Asymptotic thermal quark masses and the entropy of QCD in the large-Nflimit. <i>Physical Review D</i> , 2005, 72, .	4.7	28
60	Fermionic dispersion relations in ultradegenerate relativistic plasmas beyond leading logarithmic order. <i>Physical Review D</i> , 2005, 71, .	4.7	29
61	ANOMALOUS SPECIFIC HEAT IN ULTRADEGENERATE QED AND QCD. , 2005, , .		0
62	Hard-loop effective action for anisotropic plasmas. <i>Physical Review D</i> , 2004, 70, .	4.7	100
63	Anomalous specific heat in high-density QED and QCD. <i>Physical Review D</i> , 2004, 69, .	4.7	40
64	Non-Fermi-liquid specific heat of normal degenerate quark matter. <i>Physical Review D</i> , 2004, 70, .	4.7	37
65	Perturbative QCD at nonzero chemical potential: Comparison with the large-Nflimit and apparent convergence. <i>Physical Review D</i> , 2004, 69, .	4.7	25
66	A new anomalous contribution to the central charge of the N=2 monopole. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 594, 234-240.	4.1	19
67	Quantum corrections to mass and central charge of supersymmetric solitons. <i>Physics Reports</i> , 2004, 398, 179-219.	25.6	37
68	Nonvanishing quantum corrections to the mass and central charge of the N=2 vortex and BPS saturation. <i>Nuclear Physics B</i> , 2004, 679, 382-394.	2.5	34
69	Advances in perturbative thermal field theory. <i>Reports on Progress in Physics</i> , 2004, 67, 351-431.	20.1	156
70	New developments in the quantization of supersymmetric solitons (kinks, vortices and monopoles). <i>Brazilian Journal of Physics</i> , 2004, 34, .	1.4	14
71	Comparing different hard-thermal-loop approaches to quark number susceptibilities. <i>European Physical Journal C</i> , 2003, 27, 433-438.	3.9	34
72	Comment on: "One loop renormalization of soliton quantum mass corrections in (1+1)-dimensional scalar field theory models". <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 552, 17-20.	4.1	4

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73	The anomaly in the central charge of the supersymmetric kink from dimensional regularization and reduction. Nuclear Physics B, 2003, 648, 174-188.	2.5	26
74	Renormalization group summation and the free energy of hot QCD. Physical Review D, 2003, 67, .	4.7	10
75	Gauge dependence identities for color superconducting QCD. Physical Review D, 2003, 68, .	4.7	52
76	On the apparent convergence of perturbative QCD at high temperature. Physical Review D, 2003, 68, .	4.7	90
77	Hard-thermal-loop quasiparticle models of deconfined QCD at finite chemical potential. Physical Review D, 2003, 68, .	4.7	56
78	ON THE NATURE OF THE ANOMALIES IN THE SUPERSYMMETRIC KINK. International Journal of Modern Physics A, 2003, 18, 5637-5646.	1.5	5
79	Thermodynamics of large-NfQCD at finite chemical potential. Journal of High Energy Physics, 2003, 2003, 032-032.	4.7	32
80	Comment on and erratum to "Pressure of hot QCD at large Nf". Journal of High Energy Physics, 2003, 2003, 037-037.	4.7	27
81	HTL-RESUMMED THERMODYNAMICS OF HOT AND DENSE QCD: AN UPDATE. , 2003, , .		1
82	Clash of discrete symmetries for the supersymmetric kink on a circle. Physical Review D, 2002, 66, .	4.7	8
83	One-loop surface tensions of (supersymmetric) kink domain walls from dimensional regularization. New Journal of Physics, 2002, 4, 31-31.	2.9	37
84	Thermal Gauge Field Theories. , 2002, , 161-208.		14
85	HTL Perturbation Theory and QCD Thermodynamics. , 2002, , 327-351.		0
86	Quark number susceptibilities from HTL-resummed thermodynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 523, 143-150.	4.1	119
87	Approximately self-consistent resummations for the thermodynamics of the quark-gluon plasma: Entropy and density. Physical Review D, 2001, 63, .	4.7	254
88	Entropy of the QCD Plasma. Physical Review Letters, 1999, 83, 2906-2909.	7.8	192
89	QCD pressure and the trace anomaly. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 460, 197-203.	4.1	18
90	Self-consistent hard-thermal-loop thermodynamics for the quark-gluon plasma. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 470, 181-188.	4.1	120

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91	Renormalisation of the non-perturbative thermal pressure. Nuclear Physics B, 1999, 539, 233-263.	2.5	7
92	Topological boundary conditions, the BPS bound, and elimination of ambiguities in the quantum mass of solitons. Nuclear Physics B, 1999, 542, 471-514.	2.5	129
93	Foam diagram summation at finite temperature. Nuclear Physics B, 1998, 524, 579-600.	2.5	59
94	Eliminating infrared divergences in the pressure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 398, 326-330.	4.1	21
95	No saturation of the quantum Bogomolnyi bound by two-dimensional $N = 1$ supersymmetric solitons. Nuclear Physics B, 1997, 508, 449-467.	2.5	57
96	Improved hard-thermal-loop effective action for hot QED and QCD. Nuclear Physics B, 1996, 464, 279-297.	2.5	51
97	Dynamics of cosmological perturbations in thermal $\hat{I}t$ theory. Physical Review D, 1996, 53, 5468-5482.	4.7	6
98	Gravitational polarization tensor of thermal $\hat{I}t$ theory. Physical Review D, 1996, 53, 882-890.	4.7	7
99	Resummations in Hot Scalar Electrodynamics. Annals of Physics, 1995, 238, 286-331.	2.8	67
100	Infrared sensitivity of screening and damping in a quark-gluon plasma. Physical Review D, 1995, 52, 2994-3002.	4.7	28
101	Kinetic versus thermal-field-theory approach to cosmological perturbations. Physical Review D, 1994, 50, 2541-2559.	4.7	35
102	Thermal Green's functions from quantum mechanical path integrals. II. Inclusion of fermions. Physical Review D, 1994, 49, 1047-1053.	4.7	12
103	Nonabelian Debye screening in one-loop resummed perturbation theory. Nuclear Physics B, 1994, 430, 319-342.	2.5	75
104	Thermalisation of longitudinal gluons. Nuclear Physics B, 1993, 410, 23-36.	2.5	13
105	Non-Abelian Debye mass at next-to-leading order. Physical Review D, 1993, 48, R3967-R3970.	4.7	135
106	Loop diagrams without $\hat{I}t$ matrices. Physical Review D, 1993, 48, 2891-2896.	4.7	20
107	Thermal Green's functions from quantum-mechanical path integrals. Physical Review D, 1993, 47, 5487-5493.	4.7	21
108	Comment on "Damping of energetic gluons and quarks in high-temperature QCD". Physical Review D, 1992, 46, 482-483.	4.7	32

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109	Comment on "High-temperature fermion propagator: Resummation and gauge dependence of the damping rate". Physical Review D, 1992, 46, 4779-4781.	4.7	37
110	Covariant gauges at finite temperature. Nuclear Physics B, 1992, 383, 607-621.	2.5	29
111	Analytical solutions for cosmological perturbations with relativistic collisionless matter. Nuclear Physics B, 1992, 368, 479-508.	2.5	44
112	Large-scale rotational perturbations of a Friedmann universe with collisionless matter and primordial magnetic fields. Astrophysical Journal, 1992, 392, 385.	4.5	17
113	Collective phenomena and instabilities of perturbative quantum gravity at non-zero temperature. Nuclear Physics B, 1991, 351, 706-734.	2.5	75
114	Gauge dependence identities and their application at finite temperature. Nuclear Physics B, 1991, 355, 1-37.	2.5	153
115	Self-consistent cosmological perturbations from thermal field theory. Physical Review Letters, 1991, 67, 793-796.	7.8	14
116	QUANTIZATION OF THE FREEDMAN-TOWNSEND MODEL OF MASSIVE VECTOR MESONS. Modern Physics Letters A, 1991, 06, 3359-3363.	1.2	6
117	Gauge Independence of Plasma Parameters in Thermal Gauge Theories. , 1991, , 391-405.		0
118	Resummed loop expansion for high temperature QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 244, 58-62.	4.1	13
119	Anomalous anomalies in the Carlip-Kallos quantization of the Green-Schwarz superstring. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 236, 255-261.	4.1	11
120	QCD plasma parameters from the S-matrix. Annals of Physics, 1990, 201, 223-240.	2.8	20
121	Hot expansion. Physical Review D, 1990, 41, 3269-3272.	4.7	17
122	QCD plasma parameters and the gauge-dependent gluon propagator. Physical Review Letters, 1990, 64, 2992-2995.	7.8	114
123	Restrictions on the applicability of $\eta$ -function regularization in gauge theories. Physical Review D, 1989, 39, 3101-3109.	4.7	18
124	Regularization of two-dimensional quantum gravity. Physical Review D, 1989, 39, 3625-3629.	4.7	3
125	Gauge independent methods for threshold corrections in grand unification. Zeitschrift für Physik C-Particles and Fields, 1989, 44, 479-491.	1.5	1
126	Gauge dependences of the covariant effective action in QED. Journal of Mathematical Physics, 1989, 30, 1635-1639.	1.1	2



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127	String world-sheet anomalies in non-conformal gauges. Nuclear Physics B, 1989, 315, 717-739.	2.5	9
128	Background field planar gauge without Nielsen-Kallosch ghosts. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 207, 49-52.	4.1	1
129	A new anti-BRS symmetry of Yang-Mills theories in the axial gauge. Il Nuovo Cimento A, 1988, 100, 713-722.	0.2	0
130	Feynman rules and S-matrix equivalence of the vilkovisky-DeWitt effective action. Nuclear Physics B, 1988, 298, 726-740.	2.5	26
131	The Vilkovisky-DeWitt effective action and its application to Yang-Mills theories. Nuclear Physics B, 1987, 288, 832-857.	2.5	79
132	On the harmonic gauge in the quantization of strings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 196, 477-480.	4.1	12
133	Extended BRS-symmetry and the axial gauge in pure Yang-Mills theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 175, 53-56.	4.1	24
134	BPHZL-subtraction scheme and axial gauges. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 169, 221-224.	4.1	3
135	A simple implementation of Wess-Zumino-like gauges within the superfield technique. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 167, 393-395.	4.1	7
136	Gauge and scheme dependence of threshold effects in spontaneously broken theories. Zeitschrift für Physik C-Particles and Fields, 1986, 32, 127-133.	1.5	1
137	Momentum subtraction scheme and the background field method in QCD. Zeitschrift für Physik C-Particles and Fields, 1986, 30, 309-315.	1.5	16
138	On the equivalence of the background field method. Zeitschrift für Physik C-Particles and Fields, 1985, 28, 269-275.	1.5	18