Anton Rebhan

List of Publications by Year
in descending order

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138 papers	4,998 citations	94433 37 h-index	98798 67 g-index
141 all docs	141 docs citations	141 times ranked	1308 citing authors

#	Article	IF	Citations
1	Approximately self-consistent resummations for the thermodynamics of the quark-gluon plasma: Entropy and density. Physical Review D, 2001, 63, .	4.7	254
2	Entropy of the QCD Plasma. Physical Review Letters, 1999, 83, 2906-2909.	7.8	192
3	Violation of the Holographic Viscosity Bound in a Strongly Coupled Anisotropic Plasma. Physical Review Letters, 2012, 108, 021601.	7.8	174
4	Hard-Loop Dynamics of Non-Abelian Plasma Instabilities. Physical Review Letters, 2005, 94, 102303.	7.8	171
5	Inverse magnetic catalysis in dense holographic matter. Journal of High Energy Physics, 2011, 2011, 1.	4.7	171
6	Advances in perturbative thermal field theory. Reports on Progress in Physics, 2004, 67, 351-431.	20.1	156
7	Gauge dependence identities and their application at finite temperature. Nuclear Physics B, 1991, 355, 1-37.	2.5	153
8	Non-Abelian Debye mass at next-to-leading order. Physical Review D, 1993, 48, R3967-R3970.	4.7	135
9	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
10	Anomalies and the chiral magnetic effect in the Sakai-Sugimoto model. Journal of High Energy Physics, 2010, 2010, 1.	4.7	121
11	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
12	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
13	Holographic anomalous conductivities and the chiral magnetic effect. Journal of High Energy Physics, 2011, 2011, 1.	4.7	115
14	QCD plasma parameters and the gauge-dependent gluon propagator. Physical Review Letters, 1990, 64, 2992-2995.	7.8	114
15	Dynamics of quark-gluon-plasma instabilities in discretized hard-loop approximation. Journal of High Energy Physics, 2005, 2005, 041-041.	4.7	105
16	Hard-loop effective action for anisotropic plasmas. Physical Review D, 2004, 70, .	4.7	100
17	On the apparent convergence of perturbative QCD at high temperature. Physical Review D, 2003, 68, .	4.7	90
18	The Vilkovisky-DeWitt effective action and its application to Yang-Mills theories. Nuclear Physics B, 1987, 288, 832-857.	2.5	79

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19	Collective phenomena and instabilities of perturbative quantum gravity at non-zero temperature. Nuclear Physics B, 1991, 351, 706-734.	2.5	75
20	Nonabelian Debye screening in one-loop resummed perturbation theory. Nuclear Physics B, 1994, 430, 319-342.	2.5	75
21	Glueball decay rates in the Witten-Sakai-Sugimoto model. Physical Review D, 2015, 91, .	4.7	69
22	Resummations in Hot Scalar Electrodynamics. Annals of Physics, 1995, 238, 286-331.	2.8	67
23	Instabilities of an anisotropically expanding non-Abelian plasma:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mi mathvariant="normal">D</mml:mi><mml:mo>+</mml:mo><mml:mn>3</mml:mn><mml:mi mathvariant="normal">V</mml:mi></mml:math>discretized hard-loop simulations. Physical Review D, 2008, 78, .	4.7	66
24	Foam diagram summation at finite temperature. Nuclear Physics B, 1998, 524, 579-600.	2.5	59
25	Plasma Instabilities in an Anisotropically Expanding Geometry. Physical Review Letters, 2006, 97, 252301.	7.8	57
26	No saturation of the quantum Bogomolnyi bound by two-dimensional N = 1 supersymmetric solitons. Nuclear Physics B, 1997, 508, 449-467.	2.5	57
27	Hard-thermal-loop quasiparticle models of deconfined QCD at finite chemical potential. Physical Review D, 2003, 68, .	4.7	56
28	Gauge dependence identities for color superconducting QCD. Physical Review D, 2003, 68, .	4.7	52
29	Inverse Magnetic Catalysis in Field Theory and Gauge-Gravity Duality. Lecture Notes in Physics, 2013, , 51-86.	0.7	52
30	Improved hard-thermal-loop effective action for hot QED and QCD. Nuclear Physics B, 1996, 464, 279-297.	2.5	51
31	Pressure of deconfined QCD for all temperatures and quark chemical potentials. Physical Review D, 2006, 74, .	4.7	51
32	Analytical solutions for cosmological perturbations with relativistic collisionless matter. Nuclear Physics B, 1992, 368, 479-508.	2.5	44
33	Instabilities of an anisotropically expanding non-Abelian plasma:3D+3Vdiscretized hard-loop simulations. Physical Review D, 2013, 87, .	4.7	43
34	Nonchiral Enhancement of Scalar Glueball Decay in the Witten-Sakai-Sugimoto Model. Physical Review Letters, 2015, 115, 131601.	7.8	41
35	Anomalous specific heat in high-density QED and QCD. Physical Review D, 2004, 69, .	4.7	40
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	Comment on â€˜â€˜High-temperature fermion propagator: Resummation and gauge dependence of the damping rateâ€™â€™. Physical Review D, 1992, 46, 4779-4781.	4.7	37
38	One-loop surface tensions of (supersymmetric) kink domain walls from dimensional regularization. New Journal of Physics, 2002, 4, 31-31.	2.9	37
39	Non-Fermi-liquid specific heat of normal degenerate quark matter. Physical Review D, 2004, 70, .	4.7	37
40	Quantum corrections to mass and central charge of supersymmetric solitons. Physics Reports, 2004, 398, 179-219.	25.6	37
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	Holographic baryonic matter in a background magnetic field. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 054006.	3.6	37
43	Kinetic versus thermal-field-theory approach to cosmological perturbations. Physical Review D, 1994, 50, 2541-2559.	4.7	35
44	Comparing different hard-thermal-loop approaches to quark number susceptibilities. European Physical Journal C, 2003, 27, 433-438.	3.9	34
45	Nonvanishing quantum corrections to the mass and central charge of the N=2 vortex and BPS saturation. Nuclear Physics B, 2004, 679, 382-394.	2.5	34
46	Non-Abelian plasma instabilities: SU(3) versus SU(2). Physical Review D, 2011, 84, .	4.7	34
47	The Witten-Sakai-Sugimoto model: A brief review and some recent results. EPJ Web of Conferences, 2015, 95, 02005.	0.3	33
48	Comment on "Damping of energetic gluons and quarks in high-temperature QCD". Physical Review D, 1992, 46, 482-483.	4.7	32
49	Thermodynamics of large-NfQCD at finite chemical potential. Journal of High Energy Physics, 2003, 2003, 032-032.	4.7	32
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	Covariant gauges at finite temperature. Nuclear Physics B, 1992, 383, 607-621.	2.5	29
52	Fermionic dispersion relations in ultradegenerate relativistic plasmas beyond leading logarithmic order. Physical Review D, 2005, 71, .	4.7	29
53	Collective modes and instabilities in anisotropically expanding ultrarelativistic plasmas. Physical Review D, 2010, 81, .	4.7	29
54	Infrared sensitivity of screening and damping in a quark-gluon plasma. Physical Review D, 1995, 52, 2994-3002.	4.7	28

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55	Asymptotic thermal quark masses and the entropy of QCD in the large-Nflimit. Physical Review D, 2005, 72, .	4.7	28
56	Probing two holographic models of strongly coupled anisotropic plasma. Journal of High Energy Physics, 2012, 2012, 1.	4.7	28
57	Comment on and erratum to `Pressure of hot QCD at largeNf'. Journal of High Energy Physics, 2003, 2003, 037-037.	4.7	27
58	Feynman rules and S-matrix equivalence of the vilkovisky-DeWitt effective action. Nuclear Physics B, 1988, 298, 726-740.	2.5	26
59	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
60	Perturbative QCD at nonzero chemical potential: Comparison with the large-Nflimit and apparent convergence. Physical Review D, 2004, 69, .	4.7	25
61	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
62	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
63	Thermal Greenâ€™s functions from quantum-mechanical path integrals. Physical Review D, 1993, 47, 5487-5493.	4.7	21
64	Eliminating infrared divergences in the pressure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 398, 326-330.	4.1	21
65	QCD plasma parameters from the S-matrix. Annals of Physics, 1990, 201, 223-240.	2.8	20
66	Loop diagrams withoutÎ³matrices. Physical Review D, 1993, 48, 2891-2896.	4.7	20
67	A new anomalous contribution to the central charge of the N=2 monopole. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 594, 234-240.	4.1	19
68	Perturbative and non-perturbative Kolmogorov turbulence in a gluon plasma. European Physical Journal C, 2011, 71, 1.	3.9	19
69	Constraints on the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î·</mml:mi><mml:msup><mml:mrow><mml:mi>Î·</mml:mi></mml:mrow><mml:mrow><mml:mi	4.7	19
	rate of a scalar glueball from gauge/gravity duality. Physical Review D, 2015, 92, .		
70	On the equivalence of the background field method. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1985, 28, 269-275.	1.5	18
71	Restrictions on the applicability ofÎ¶-function regularization in gauge theories. Physical Review D, 1989, 39, 3101-3109.	4.7	18
72	QCD pressure and the trace anomaly. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 460, 197-203.	4.1	18

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73	HotÎ´expansion. Physical Review D, 1990, 41, 3269-3272.	4.7	17
74	Semi-holography for heavy ion collisions: self-consistency and first numerical tests. Journal of High Energy Physics, 2016, 2016, 1.	4.7	17
75	Large-scale rotational perturbations of a Friedmann universe with collisionless matter and primordial magnetic fields. Astrophysical Journal, 1992, 392, 385.	4.5	17
76	Momentum subtraction scheme and the background field method in QCD. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1986, 30, 309-315.	1.5	16
77	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
78	Witten-Veneziano mechanism and pseudoscalar glueball-meson mixing in holographic QCD. Physical Review D, 2020, 101, .	4.7	16
79	Polarization effects in light-by-light scattering: Eulerâ€“Heisenberg versus Bornâ€“Infeld. International Journal of Modern Physics A, 2017, 32, 1750053.	1.5	15
80	Self-consistent cosmological perturbations from thermal field theory. Physical Review Letters, 1991, 67, 793-796.	7.8	14
81	Thermal Gauge Field Theories. , 2002, , 161-208.		14
82	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
83	New developments in the quantization of supersymmetric solitons (kinks, vortices and monopoles). Brazilian Journal of Physics, 2004, 34, .	1.4	14
84	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
85	Thermalisation of longitudinal gluons. Nuclear Physics B, 1993, 410, 23-36.	2.5	13
86	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
87	Thermal Green's functions from quantum mechanical path integrals. II. Inclusion of fermions. Physical Review D, 1994, 49, 1047-1053.	4.7	12
88	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
89	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
90	Hadronic light-by-light contribution to the muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi><mml:mo>â^’</mml:mo><mml:mn>2</mml:mn></mml:math> from holographic QCD with massive pions. Physical Review D, 2021, 104, .	4.7	12

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91	Anomalous anomalies in the Carlip-Kallosh quantization of the Green-Schwarz superstring. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 236, 255-261.	4.1	11
92	Central exclusive diffractive production of axial-vector <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>f</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>1285</mml:mn><mml:mo stretchy="false">)</mml:mo></mml:mrow></mml:math> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 697 Td [(	4.7	11
93	Renormalization group summation and the free energy of hot QCD. Physical Review D, 2003, 67, .	4.7	10
94	BPS saturation of the <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	4.1	10
95	Time evolution of a toy semiholographic glasma. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
96	String world-sheet anomalies in non-conformal gauges. Nuclear Physics B, 1989, 315, 717-739.	2.5	9
97	Next-to-leading order static gluon self-energy for anisotropic plasmas. Physical Review D, 2009, 79, .	4.7	9
98	Hybrid fluid models from mutual effective metric couplings. Journal of High Energy Physics, 2018, 2018, 1.	4.7	9
99	Clash of discrete symmetries for the supersymmetric kink on a circle. Physical Review D, 2002, 66, .	4.7	8
100	Study of the gluon propagator in the large-Nf limit at finite temperature and chemical potential for weak and strong couplings. Annals of Physics, 2006, 321, 2128-2155.	2.8	8
101	BOUNDARY TERMS IN SUPERGRAVITY AND SUPERSYMMETRY. International Journal of Modern Physics D, 2006, 15, 1643-1658.	2.1	8
102	Neutron stars and phase diagram in a hard-wall AdS/QCD model. Physical Review D, 2022, 105, .	4.7	8
103	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
104	Gravitational polarization tensor of thermal Î»Ï†4theory. Physical Review D, 1996, 53, 882-890.	4.7	7
105	Renormalisation of the non-perturbative thermal pressure. Nuclear Physics B, 1999, 539, 233-263.	2.5	7
106	Hydrodynamic attractor of a hybrid viscous fluid in Bjorken flow. Physical Review Research, 2020, 2, .	3.6	7
107	Holographic QCD and the muon anomalous magnetic moment. European Physical Journal C, 2021, 81, 1008.	3.9	7
108	QUANTIZATION OF THE FREEDMANâ€“TOWNSEND MODEL OF MASSIVE VECTOR MESONS. Modern Physics Letters A, 1991, 06, 3359-3363.	1.2	6

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109	Dynamics of cosmological perturbations in thermal Î»Ï†4theory. Physical Review D, 1996, 53, 5468-5482.	4.7	6
110	One-loop results for kink and domain wall profiles at zero and finite temperature. Physical Review D, 2009, 80, .	4.7	6
111	Holographic Chiral Currents in a Magnetic Field. Progress of Theoretical Physics Supplement, 2010, 186, 463-470.	0.1	6
112	Thermodynamics and phase diagram of anisotropic Chern-Simons deformed gauge theories. Journal of High Energy Physics, 2012, 2012, 1.	4.7	6
113	Light-by-light scattering in the presence of magnetic fields. Physical Review D, 2018, 98, .	4.7	6
114	ON THE NATURE OF THE ANOMALIES IN THE SUPERSYMMETRIC KINK. International Journal of Modern Physics A, 2003, 18, 5637-5646.	1.5	5
115	Perturbative quantum corrections to the supersymmetric CP1kink with twisted mass. Journal of High Energy Physics, 2007, 2007, 069-069.	4.7	5
116	Quasinormal modes of a semi-holographic black brane and thermalization. Journal of High Energy Physics, 2021, 2021, 1.	4.7	5
117	Comment on: â€œOne loop renormalization of soliton quantum mass corrections in (1+1)-dimensional scalar field theory modelsâ€• Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 552, 17-20.	4.1	4
118	BPHZL-subtraction scheme and axial gauges. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 169, 221-224.	4.1	3
119	Regularization of two-dimensional quantum gravity. Physical Review D, 1989, 39, 3625-3629.	4.7	3
120	Unified description of deconfined QCD equation of state. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, S631-S634.	3.6	3
121	Hadronic vacuum polarization contribution to the muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi><mml:mo>â^’</mml:mo><mml:mn>2</mml:mn></mml:math> in holographic QCD. Physical Review D, 2022, 105, .	4.7	3
122	Gauge dependences of the covariant effective action in QED. Journal of Mathematical Physics, 1989, 30, 1635-1639.	1.1	2
123	Top-down holographic glueball decay rates. AIP Conference Proceedings, 2016, , .	0.4	2
124	Gauge and scheme dependence of threshold effects in spontaneously broken theories. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1986, 32, 127-133.	1.5	1
125	Background field planar gauge without Nielsen-Kallosh ghosts. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 207, 49-52.	4.1	1
126	Gauge independent methods for threshold corrections in grand unification. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1989, 44, 479-491.	1.5	1

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127	HTL-RESUMMED THERMODYNAMICS OF HOT AND DENSE QCD: AN UPDATE. , 2003, , .		1
128	Hard loop effective theory of the (anisotropic) quark gluon plasma. Progress in Particle and Nuclear Physics, 2009, 62, 518-528.	14.4	1
129	Imaginary part of the next-to-leading-order static gluon self-energy in an anisotropic plasma. Physical Review D, 2009, 80, .	4.7	1
130	Chiral transition in dense, magnetized matter. , 2012, , .		1
131	The Chromo-Weibel Instability in an Expanding Background. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 393.	0.1	1
132	A new anti-BRS symmetry of Yang-Mills theories in the axial gauge. Il Nuovo Cimento A, 1988, 100, 713-722.	0.2	0
133	Nonabelian plasma instabilities in Bjorken expansion. Nuclear Physics A, 2009, 820, 123c-126c.	1.5	0
134	Plasma Instabilities in Heavy Ion Collisions. , 2011, , .		0
135	HTL Perturbation Theory and QCD Thermodynamics. , 2002, , 327-351.		0
136	ANOMALOUS SPECIFIC HEAT IN ULTRADEGENERATE QED AND QCD. , 2005, , .		0
137	Gauge Independence of Plasma Parameters in Thermal Gauge Theories. , 1991, , 391-405.		0
138	Central exclusive diffractive production of axial-vector f_{1} mesons in proton-proton collisions. SciPost Physics Proceedings, 2022, , .	0.4	0