

Tamas S. BirÅ³

List of Publications by Year in descending order

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151
papers

3,561
citations

136950

32
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161849

54
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155
docs citations

155
times ranked

2947
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Study on the Uniform Energy Deposition Achievable via Optimized Plasmonic Nanoresonator Distributions. <i>Plasmonics</i> , 2022, 17, 775-787.	3.4	8
2	Entropy of Artificial Intelligence. <i>Universe</i> , 2022, 8, 53.	2.5	1
3	Wealth Distribution in Villages. Transition From Socialism to Capitalism in View of Exhaustive Wealth Data and a Master Equation Approach. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	3
4	f-Gintropy: An Entropic Distance Ranking Based on the Gini Index. <i>Entropy</i> , 2022, 24, 407.	2.2	3
5	Kinetic Model Evaluation of the Resilience of Plasmonic Nanoantennas for Laser-Induced Fusion. , 2022, 1, .		5
6	Transient Dynamics in the Random Growth and Reset Model. <i>Entropy</i> , 2021, 23, 306.	2.2	7
7	Laser wake field collider. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 396, 127245.	2.1	7
8	Wealth distribution in modern societies: Collected data and a master equation approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 581, 126194.	2.6	7
9	Gintropy: Gini Index Based Generalization of Entropy. <i>Entropy</i> , 2020, 22, 879.	2.2	17
10	Scaling in income inequalities and its dynamical origin. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 549, 124491.	2.6	11
11	Volume dependent extension of Kerr-Newman black hole thermodynamics. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 803, 135344.	4.1	4
12	Tsallis-thermometer: a QGP indicator for large and small collisional systems. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2020, 47, 105002.	3.6	27
13	Hadronization within the non-extensive approach and the evolution of the parameters. <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	12
14	Multiplicity Dependence in the Non-Extensive Hadronization Model Calculated by the HIJING++ Framework. <i>Universe</i> , 2019, 5, 134.	2.5	2
15	Hadron Spectra Parameters within the Non-Extensive Approach. <i>Universe</i> , 2019, 5, 122.	2.5	14
16	Fluctuation, Dissipation, and Non-Boltzmann Energy Distributions. <i>SpringerBriefs in Physics</i> , 2019, , 61-84.	0.7	1
17	Entropic Divergence and Entropy Related to Nonlinear Master Equations. <i>Entropy</i> , 2019, 21, 993.	2.2	11
18	Keldysh (Two-Time) Formalism. <i>SpringerBriefs in Physics</i> , 2019, , 35-50.	0.7	0

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19	Maverick Views and Problems. SpringerBriefs in Physics, 2019, , 85-108.	0.7	0
20	Quantum Uncertainty and Unruh Temperature. SpringerBriefs in Physics, 2019, , 1-18.	0.7	0
21	Off-Shell Transport Dynamics. SpringerBriefs in Physics, 2019, , 19-34.	0.7	0
22	Unidirectional random growth with resetting. Physica A: Statistical Mechanics and Its Applications, 2018, 499, 335-361.	2.6	26
23	Different non-extensive models for heavy-ion collisions. Physica A: Statistical Mechanics and Its Applications, 2018, 492, 2353-2360.	2.6	16
24	Entropy production during hadronization of a quark-gluon plasma. European Physical Journal A, 2018, 54, 1.	2.5	5
25	Mass hierarchy and energy scaling of the Tsallis " Pareto parameters in hadron productions at RHIC and LHC energies. EPJ Web of Conferences, 2018, 171, 14008.	0.3	14
26	Black hole horizons can hide positive heat capacity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 228-231.	4.1	7
27	Entropic Distance for Nonlinear Master Equation. Universe, 2018, 4, 10.	2.5	5
28	Topical Issue on Frontiers in Nuclear, Heavy Ion and Strong Field Physics. European Physical Journal A, 2018, 54, 1.	2.5	1
29	Equilibrium distributions in entropy driven balanced processes. Physica A: Statistical Mechanics and Its Applications, 2017, 474, 355-362.	2.6	3
30	Nuclear and quark matter at high temperature. European Physical Journal A, 2017, 53, 1.	2.5	7
31	Application of the non-extensive statistical approach to high energy particle collisions. AIP Conference Proceedings, 2017, , .	0.4	14
32	Dynamical stationarity as a result of sustained random growth. Physical Review E, 2017, 95, 032130.	2.1	9
33	Near and Far from Equilibrium Power-Law Statistics. Journal of Physics: Conference Series, 2017, 779, 012081.	0.4	5
34	Systematic Analysis of the Non-Extensive Statistical Approach in High Energy Particle Collisions"Experiment vs. Theory. Entropy, 2017, 19, 88.	2.2	45
35	A "soft + hard"™ model for heavy-ion collisions. Journal of Physics: Conference Series, 2017, 805, 012010.	0.4	10
36	Science and Facebook: The same popularity law!. PLoS ONE, 2017, 12, e0179656.	2.5	25

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37	Non-Extensive Entropic Distance Based on Diffusion: Restrictions on Parameters in Entropy Formulae. Entropy, 2016, 18, 42.	2.2	3
38	Glueballs amass at the RHIC and LHC! The early quarkless first-order phase transition at $T = 270$ MeV from pure Yang-Mills glue plasma to Hagedorn glueball states. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 015105.	3.6	22
39	Under-saturation of quarks at early stages of relativistic nuclear collisions: The hot glue initial scenario and its observable signatures. Astronomische Nachrichten, 2015, 336, 744-748.	1.2	13
40	Splitting the Source Term for the Einstein Equation to Classical and Quantum Parts. Foundations of Physics, 2015, 45, 1465-1482.	1.3	4
41	Non-extensive quantum statistics with particle-hole symmetry. Physica A: Statistical Mechanics and Its Applications, 2015, 428, 410-415.	2.6	20
42	Elliptic flow due to radiation in heavy-ion collisions. European Physical Journal A, 2015, 51, 1.	2.5	5
43	New entropy formula with fluctuating reservoir. Physica A: Statistical Mechanics and Its Applications, 2015, 417, 215-220.	2.6	32
44	Quarks, Flow and Temperature in Spectra. Journal of Physics: Conference Series, 2014, 509, 012027.	0.4	1
45	QCD above T_c and below T_c . Hadrons, partons, and the continuum. Physical Review D, 2014, 90, .	4.7	28
46	Non-Abelian bremsstrahlung and azimuthal asymmetries in high energy reactions. Physical Review D, 2014, 90, .	1.5	4
47	Initial-state bremsstrahlung versus final-state hydrodynamic sources of azimuthal harmonics in heavy-ion collisions at RHIC and LHC. Nuclear Physics A, 2014, 931, 943-948.	2.2	34
48	Statistical Power Law due to Reservoir Fluctuations and the Universal Thermostat Independence Principle. Entropy, 2014, 16, 6497-6514.	2.5	5
49	Illusory flow in radiation from accelerating charge. European Physical Journal A, 2014, 50, 1.		4
50	Thermodynamics and flow-frames for dissipative relativistic fluids. , 2014, , .		
51	Quark-gluon plasma connected to finite heat bath. European Physical Journal A, 2013, 49, 1.	2.5	58
52	Ideal gas provides -entropy. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 3132-3139.	2.6	30
53	A q-parameter bound for particle spectra based on black hole thermodynamics with Rényi entropy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 861-865.	4.1	91
54	Title is missing!. Acta Physica Polonica B, 2012, 43, 811.	0.8	4

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55	Nonadditive thermostatics and thermodynamics. Journal of Physics: Conference Series, 2012, 394, 012002.	0.4	11
56	Microcanonical jet-fragmentation in protonâ€“proton collisions at LHC energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 125-129.	4.1	39
57	Topical issue on relativistic hydro- and thermodynamics. European Physical Journal A, 2012, 48, 1.	2.5	3
58	Non-extensive statistics, relativistic kinetic theory and fluid dynamics. European Physical Journal A, 2012, 48, 1.	2.5	15
59	Unruh gamma radiation at RHIC?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 276-279.	4.1	10
60	First order and stable relativistic dissipative hydrodynamics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 709, 106-110.	4.1	65
61	Title is missing!. Acta Physica Polonica B, Proceedings Supplement, 2012, 5, 363.	0.1	5
62	Lattice gauge theory with fluctuating temperature. EPJ Web of Conferences, 2011, 13, 05004.	0.3	7
63	Pion Production Via Resonance Decay in a Non-extensive Quark-Gluon Medium with Non-additive Energy Composition Rule. EPJ Web of Conferences, 2011, 13, 05003.	0.3	2
64	Towards a superstatistical SU(2) Yang-Mills EoS. Physics of Particles and Nuclei Letters, 2011, 8, 805-810.	0.4	1
65	Zeroth law compatibility of nonadditive thermodynamics. Physical Review E, 2011, 83, 061147.	2.1	79
66	Equilibrium statistical mechanics for incomplete nonextensive statistics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 372-378.	2.1	4
67	Generalised Tsallis statistics in electronâ€“positron collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 111-116.	4.1	60
68	TSALLISâ€“PARETO-LIKE DISTRIBUTIONS IN HADRON-HADRON COLLISIONS. , 2011, , .		3
69	RÃ©nyi statistics in equilibrium statistical mechanics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 1951-1957.	2.1	20
70	Cooperâ€“Frye formula and non-extensive coalescence at RHIC energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 689, 14-17.	4.1	19
71	Statistical Power Law Tails in High-Energy Phenomena. European Physical Journal A, 2009, 40, 255.	2.5	16
72	Non-extensive approach to quark matter. European Physical Journal A, 2009, 40, 325.	2.5	141

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73	Non-extensive equilibration in relativistic matter. <i>Open Physics</i> , 2009, 7, .	1.7	2
74	Equilibration of two power-law tailed distributions in a parton cascade model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 1174-1179.	2.1	18
75	Microscopic origin of non-Gaussian distributions of financial returns. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 1603-1612.	2.6	21
76	ALCOR. <i>European Physical Journal: Special Topics</i> , 2008, 155, 1-12.	2.6	9
77	Relativistic hydrodynamics – causality and stability. <i>European Physical Journal: Special Topics</i> , 2008, 155, 201-212.	2.6	54
78	Abstract composition rule for relativistic kinetic energy in the thermodynamical limit. <i>Europhysics Letters</i> , 2008, 84, 56003.	2.0	26
79	Hadronization line in stringy matter. <i>Physical Review C</i> , 2008, 78, .	2.9	9
80	Entropy of expanding QCD matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007, 650, 193-196.	4.1	15
81	Limiting temperature from a parton gas with power-law tailed distribution. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 632, 247-251.	4.1	18
82	Two generalizations of the Boltzmann equation. <i>European Physical Journal B</i> , 2006, 50, 3-6.	1.5	45
83	Power-law tailed spectra from equilibrium. <i>Nuclear Physics A</i> , 2006, 774, 845-848.	1.5	8
84	Equation of state for distributed mass quark matter. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2006, 32, S205-S212.	3.6	9
85	Extensive Rényi statistics from non-extensive entropy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 340, 375-387.	2.1	36
86	Quark Matter and Non-Extensive Thermodynamics. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2005, 22, 223-229.	0.4	1
87	Nonextensive Boltzmann Equation and Hadronization. <i>Physical Review Letters</i> , 2005, 95, 162302.	7.8	58
88	A non-conventional description of quark matter. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S759-S763.	3.6	12
89	Power-Law Tails from Multiplicative Noise. <i>Physical Review Letters</i> , 2005, 94, 132302.	7.8	112
90	Strange quark matter theory. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2004, 30, S599-S612.	3.6	0

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91	What Is the Temperature in Heavy Ion Collisions?. Acta Physica Hungarica A Heavy Ion Physics, 2004, 21, 85-94.	0.4	5
92	Almost exponential transverse spectra from power law spectra. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 578, 78-84.	4.1	24
93	Chaotic Quantization: Maybe the Lord Plays Dice, After All?. Lecture Notes in Physics, 2004, , 164-179.	0.7	4
94	How Low is the Thermodynamical Limit?. , 2004, , 569-576.		0
95	MONOPOLES IN REAL TIME FOR CLASSICAL U(1) GAUGE FIELD THEORY. , 2004, , .		0
96	Faces of Quark Matter. Acta Physica Hungarica A Heavy Ion Physics, 2003, 17, 205-217.	0.4	7
97	Quasiparticles and Thermodynamical Consistency. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 91-100.	0.4	2
98	Observables of lattice gauge theory in minkowski space. Nuclear Physics, Section B, Proceedings Supplements, 2003, 121, 307-311.	0.4	0
99	Toward thermodynamic consistency of quasiparticle picture. Physics of Atomic Nuclei, 2003, 66, 982-996.	0.4	21
100	Quark coalescence in the mid-rapidity region at RHIC. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 1561-1566.	3.6	30
101	Chaotic Quantization of Classical Gauge Fields. Foundations of Physics Letters, 2001, 14, 471-485.	0.6	12
102	The production of charm mesons from quark matter at CERN SPS and RHIC. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 703-706.	3.6	18
103	Analytic solution for relativistic transverse flow at the softest point. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 474, 21-26.	4.1	26
104	Generating new solutions for relativistic transverse flow at the softest point. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 487, 133-139.	4.1	29
105	Quark liberation and coalescence at CERN SPS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 472, 243-246.	4.1	61
106	Chaos analyses in both phases of QED and QCD. Nuclear Physics, Section B, Proceedings Supplements, 2000, 86, 403-407.	0.4	2
107	Hadronization of a quark-gluon plasma in the chromodielectric model. Physical Review C, 1999, 59, 1620-1636.	2.9	20
108	Strange hyperon and antihyperon production from quark and string-rope matter. Journal of Physics G: Nuclear and Particle Physics, 1999, 25, 321-330.	3.6	20

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109	Hadronization with a confining equation of state. <i>Physical Review C</i> , 1999, 59, 1574-1584.	2.9	50
110	Micromechanical Models for the Brownian Motion of Hair Cell Stereocilia. <i>Journal of Theoretical Biology</i> , 1998, 193, 623-630.	1.7	20
111	Chaotic behavior of confining lattice Gauge field configurations. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 1998, 7, 235-244.	0.4	6
112	The dependence of strange hadron multiplicities on the speed of hadronization. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1997, 23, 1941-1946.	3.6	12
113	Dissipation and Fluctuation at the Chiral Phase Transition. <i>Physical Review Letters</i> , 1997, 79, 3138-3141.	7.8	56
114	Disoriented chiral condensate formation from a state with collective pion fields. <i>Physical Review D</i> , 1997, 55, 6900-6909.	4.7	10
115	A new effective Lagrangian for nuclear matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 391, 1-4.	4.1	20
116	A dynamical model of color confinement. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 387, 685-690.	4.1	7
117	Damping rate and Lyapunov exponent of a Higgs field at high temperature. <i>Physical Review D</i> , 1996, 54, 3465-3470.	4.7	11
118	ALCOR: a dynamical model for hadronization. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 347, 6-12.	4.1	124
119	Chaos driven by soft-hard mode coupling in thermal Yang-Mills theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 362, 29-33.	4.1	4
120	A transport theory of relativistic nucleon-nucleon collisions with confinement. <i>Nuclear Physics A</i> , 1995, 581, 598-624.	1.5	15
121	Lyapunov exponent and plasmon damping rate in non-Abelian gauge theories. <i>Physical Review D</i> , 1995, 52, 1260-1266.	4.7	27
122	CONSERVING ALGORITHMS FOR REAL-TIME NONABELIAN LATTICE GAUGE THEORIES. <i>International Journal of Modern Physics C</i> , 1995, 06, 327-344.	1.7	10
123	Hot gluon propagator. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 1995, 1, 33-41.	0.4	0
124	HAMILTONIAN DYNAMICS OF YANG-MILLS FIELDS ON A LATTICE. <i>International Journal of Modern Physics C</i> , 1994, 05, 113-149.	1.7	71
125	Variational approach to real-time evolution of Yang-Mills gauge fields on the lattice. <i>Nuclear Physics A</i> , 1994, 568, 727-744.	1.5	5
126	Parton equilibration at RHIC and LHC. <i>Nuclear Physics A</i> , 1994, 566, 543-546.	1.5	8

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127	A quark transport theory to describe nucleon-nucleon collisions. Nuclear Physics A, 1993, 563, 584-604.	1.5	12
128	Magnetic screening in thermal Yang-Mills theories. Nuclear Physics A, 1993, 561, 477-500.	1.5	33
129	Parton equilibration in relativistic heavy ion collisions. Physical Review C, 1993, 48, 1275-1284.	2.9	226
130	Color screening in relativistic heavy ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 283, 171-173.	4.1	67
131	Confinement and gaussian gluon fields. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 278, 15-18.	4.1	2
132	Dynamically generated abelian and nonabelian Higgs fields in QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 235, 11-14.	4.1	0
133	Variational QCD at finite chemical potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 245, 142-146.	4.1	2
134	Sea effects in the chiral quark soliton model. Nuclear Physics A, 1990, 513, 621-635.	1.5	7
135	Strangeness production with "massive" gluons. Physical Review D, 1990, 42, 3078-3087.	4.7	38
136	$e+e^{\gamma}$ Production in proton-neutron collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 221, 1-5.	4.1	49
137	Color correlations and confinement. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 228, 16-20.	4.1	3
138	O(4) vacuum invariance and deconfinement. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 232, 10-14.	4.1	1
139	Particle production within a selfconsistent transport approach to heavy-ion collisions. Nuclear Physics A, 1989, 495, 91-102.	1.5	7
140	Microscopic theory of photon production in proton-nucleus and nucleus-nucleus collisions. Nuclear Physics A, 1987, 475, 579-597.	1.5	51
141	A chirally invariant fermionic field theory for nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 185, 1-5.	4.1	52
142	Hadrochemistry in relativistic mean fields. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 167, 271-276.	4.1	6
143	Percolation in finite space: A picture of nuclear fragmentation?. Nuclear Physics A, 1986, 459, 692-710.	1.5	56
144	Dynamical multifragmentation of highly excited nuclear systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 165, 256-261.	4.1	7

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145	Unified model of dilute and superdense finite nuclear systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 147, 10-16.	4.1	0
146	Asymptotic hadrochemistry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 143, 50-54.	4.1	3
147	Colour rope model for extreme relativistic heavy ion collisions. Nuclear Physics B, 1984, 245, 449-468.	2.5	259
148	Quark-gluon plasma formation in heavy ion collisions and quarkochemistry. Nuclear Physics A, 1983, 395, 525-538.	1.5	105
149	Entropy and hadrochemical composition in heavy ion collision. Physical Review C, 1983, 27, 2695-2702.	2.9	51
150	Quarkochemistry in relativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 113, 6-10.	4.1	75
151	Strange particle production in the hadrochemical model. Nuclear Physics A, 1982, 386, 617-623.	1.5	27