GÃ¡bor Papp

List of Publications by Year in descending order

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75 papers	1,184 citations	430874 18 h-index	395702 33 g-index
75 all docs	75 docs citations	75 times ranked	2637 citing authors

#	Article	IF	Citations
1	PREDICTIONS FOR p+PbCOLLISIONS AT $sqrt{s_{_{it NN}}} = 5$. International Journal of Modern Physics E, 2013, 22, 1330007.	1.0	165
2	High-pTpion and kaon production in relativistic nuclear collisions. Physical Review C, 2002, 65, .	2.9	104
3	Non-hermitian random matrix models. Nuclear Physics B, 1997, 501, 603-642.	2.5	85
4	Non-Hermitian random matrix models: Free random variable approach. Physical Review E, 1997, 55, 4100-4106.	2.1	61
5	Chiral Disorder in QCD. Physical Review Letters, 1998, 81, 264-267.	7.8	55
6	Correlations of eigenvectors for non-Hermitian random-matrix models. Physical Review E, 1999, 60, 2699-2705.	2.1	49
7	Predictions for cold nuclear matter effects in p+Pb collisions at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msqrt><mml:mrow><mml:msub><mml:mrow><mml:mi>s</mml:mi></mml:mrow><mml:mrow><mml:mi>N</m TeV. Nuclear Physics A, 2018, 972, 18-85.	1.5	43
8	Percolation versus microcanonical fragmentation-comparison of fragment size distributions: Where is the liquid-gas transition in nuclei?. Nuclear Physics A, 1990, 514, 327-338.	1.5	35
9	Free random LÃ©vy matrices. Physical Review E, 2002, 65, 021106.	2.1	34
10	Thermal multifragmentation in p + Au interactions at 2.16, 3.6 and 8.1 GeV incident energies. European Physical Journal A, 1998, 3, 75-83.	2.5	33
11	Predictions for p+Pb Collisions at sNN = 5TeV: Comparison with Data. International Journal of Modern Physics E, 2016, 25, 1630005.	1.0	29
12	Macroscopic Universality: Why QCD in Matter is Subtle. Physical Review Letters, 1996, 77, 4876-4879.	7.8	28
13	Applying free random variables to random matrix analysis of financial data. Part I: The Gaussian case. Quantitative Finance, 2011, 11, 1103-1124.	1.7	28
14	Saturating Cronin effect in ultrarelativistic proton-nucleus collisions. Physical Review C, 1999, 61, .	2.9	25
15	Free random LÃ©vy and Wigner-LÃ©vy matrices. Physical Review E, 2007, 75, 051126.	2.1	24
16	Jets and produced particles inppcollisions from SPS to RHIC energies for nuclear applications. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 1767-1774.	3.6	22
17	A High-Granularity Digital Tracking Calorimeter Optimized for Proton CT. Frontiers in Physics, 2020, 8, .	2.1	21
18	Critical scaling at zero virtuality in QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 446, 9-14.	4.1	18

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19	Stability and instability of a hot and dilute nuclear droplet. European Physical Journal A, 2000, 9, 327-343.	2.5	18
20	Better than $l/Mflops sustained: a scalable PC-based parallel computer for lattice QCD. Computer Physics Communications, 2003, 152, 121-134.	7.5	18
21	Design optimization of a pixel-based range telescope for proton computed tomography. Physica Medica, 2019, 63, 87-97.	0.7	18
22	Cronin effect at different rapidities at RHIC. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S1125-S1128.	3.6	15
23	Free LÃ©vy matrices and financial correlations. Physica A: Statistical Mechanics and Its Applications, 2004, 343, 694-700.	2.6	15
24	Portfolio optimization under Expected Shortfall: contour maps of estimation error. Quantitative Finance, 2018, 18, 1295-1313.	1.7	15
25	QCD-inspired spectra from Blue's functions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 389, 137-143.	4.1	14
26	Jet tomography studies in AuAu collisions at RHIC energies. European Physical Journal C, 2004, 33, s609-s611.	3.9	13
27	Analytic solution to variance optimization with no short positions. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 123402.	2.3	12
28	Lattice QCD spectra at finite temperature: a random matrix approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 389, 341-346.	4.1	9
29	The U(1) problem in chiral random matrix models. Nuclear Physics B, 1997, 498, 313-330.	2.5	9
30	Perturbative QCD Results on Pion Production in pp , pA and AA Collisions. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 79-89.	0.4	9
31	Dynamical evolution of fluctuations in an expanding nucleus. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 278, 7-10.	4.1	8
32	Di-hadron correlations at ISR and RHIC energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 634, 383-390.	4.1	8
33	Helium radiography with a digital tracking calorimeterâ€"a Monte Carlo study for secondary track rejection. Physics in Medicine and Biology, 2021, 66, 035004.	3.0	8
34	Two-level system with noise: Blue's function approach. Chemical Physics, 1997, 220, 125-135.	1.9	7
35	Disorder Effects in Dimerized Bridged Molecular Systems. Journal of Physical Chemistry A, 1998, 102, 9554-9558.	2.5	7
36	Free random LÃ©vy variables and financial probabilities. Physica A: Statistical Mechanics and Its Applications, 2001, 299, 181-187.	2.6	7

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37	DOES THE CRONIN PEAK DISAPPEAR AT LHC ENERGIES?. International Journal of Modern Physics E, 2007, 16, 1923-1929.	1.0	7
38	Strong random correlations in networks of heterogeneous agents. Journal of Economic Interaction and Coordination, 2014, 9, 203-232.	0.7	7
39	A four-fermi model in 0+1 dimensions in matter. Nuclear Physics A, 1998, 642, c191-c196.	1.5	6
40	Bridged-assisted electron transfer. Random matrix theory approach. Chemical Physics, 1998, 232, 247-255.	1.9	6
41	Au + Au central collisions at 150, 250 and 400 A MeV energies in QMD with relativistic forces. Nuclear Physics A, 1999, 647, 107-135.	1.5	6
42	Investigating particle track topology for range telescopes in particle radiography using convolutional neural networks. Acta OncolÃ³gica, 2021, 60, 1413-1418.	1.8	6
43	Chiral disorder and QCD phase transitions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 442, 300-306.	4.1	5
44	Green's functions in non-hermitian random matrix models. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 9, 456-462.	2.7	5
45	Pion production in dAu collisions at RHIC energy. European Physical Journal: Special Topics, 2008, 155, 89-99.	2.6	5
46	First Results with HIJING++ in High-Energy Heavy-Ion Collisions. Nuclear and Particle Physics Proceedings, 2017, 289-290, 373-376.	0.5	5
47	Dynamical Multifragmentation. Physica Scripta, 1990, T32, 160-164.	2.5	4
48	Chiral disorder and QCD at finite chemical potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 440, 123-128.	4.1	4
49	Collective flow in central Au-Au collisions at 150, 250, and400AMeV. Physical Review C, 1999, 59, 1802-1805.	2.9	4
50	Nuclear Effects in the dAu Collisions from Recent RHIC Data. Nuclear Physics A, 2007, 783, 101-108.	1.5	4
51	From Di-hadron Correlations to Parton Intrinsic Transverse Momentum in Proton-proton Collisions. Nuclear Physics A, 2007, 783, 535-538.	1.5	4
52	Transfer learning of phase transitions in percolation and directed percolation. Physical Review E, 2022, 105, .	2.1	4
53	Chiral Disorder and the QCD Dirac Spectrum. Progress of Theoretical Physics Supplement, 1998, 131, 471-481.	0.1	3
54	The Nuclear Modification Factor at Large Rapidities. Nuclear Physics A, 2006, 774, 801-804.	1.5	3

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55	Cold nuclear modifications at RHIC and LHC. Indian Journal of Physics, 2010, 84, 1721-1725.	1.8	3
56	Bias-variance trade-off in portfolio optimization under expected shortfall with $ ewcommand{e}{{m e}} {ell_2}$ regularization. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 013402.	2.3	3
57	Chiral disorder in two-color QCD with Abelian external fluxes. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 977-979.	0.4	2
58	A scalable PC-based parallel computer for lattice QCD. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 1035-1037.	0.4	2
59	Rapidity Asymmetry in pA and Collisions. Nuclear Physics A, 2005, 749, 291-294.	1.5	2
60	Di-hadron correlations and parton intrinsic transverse momentum. Nuclear Physics A, 2006, 774, 557-560.	1.5	2
61	Jet tomography in the forward direction at RHIC. European Physical Journal C, 2007, 49, 333-338.	3.9	2
62	Multiplicity Dependence in the Non-Extensive Hadronization Model Calculated by the HIJING++ Framework. Universe, 2019, 5, 134.	2.5	2
63	HIJING, a Heavy Ion Jet INteraction Generator for the High-Luminosity Era of the LHC and Beyond. Proceedings (mdpi), 2019, 10, .	0.2	2
64	Analytic approach to variance optimization under an â„“1 constraint. European Physical Journal B, 2019, 92, 1.	1.5	2
65	Entropy Production in the Relativistic Heavy Ion Collisions. Physica Scripta, 1990, T32, 155-159.	2.5	1
66	Stability and instability of a hot and dilute nuclear droplet. European Physical Journal A, 2002, 14, 43-51.	2.5	1
67	Free random variables and molecular spectra. Physica A: Statistical Mechanics and Its Applications, 2003, 325, 48-54.	2.6	1
68	An Advanced Automated Patch Clamp Protocol Design to Investigate Drugâ€”Ion Channel Binding Dynamics. Frontiers in Pharmacology, 2021, 12, 738260.	3.5	1
69	QCD spectra and random matrix models. Acta Physica Hungarica A Heavy Ion Physics, 1997, 5, 255-269.	0.4	1
70	New Developments in Non-Hermitian Random Matrix Models. , 2002, , 297-314.		0
71	3 Ã— 50 Years Nuclear Physics in Hungary. Acta Physica Hungarica A Heavy Ion Physics, 2003, 17, 179-180.	0.4	0
72	Cronin Effect in Close-to-Midrapidity Regions at FNAL and RHIC Energies. Acta Physica Hungarica A Heavy Ion Physics, 2005, 22, 325-334.	0.4	0

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73	SPINODAL INSTABILITIES OF HOT AND DILUTE NUCLEAR DROPLET â€“ ISOVECTOR EFFECTS. International Journal of Modern Physics E, 2006, 15, 362-367.	1.0	0
74	Where does the energy loss lose strength?. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104066.	3.6	0
75	Optimizing Expected Shortfall under an â„“1 Constraintâ€”An Analytic Approach. Entropy, 2021, 23, 523.	2.2	0