Horst Stoecker

List of Publications by Year
in descending order

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38	924	471509 17	454955 30
papers	citations	h-index	g-index

38	38	38	905
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	van der Waals Interactions in Hadron Resonance Gas: From Nuclear Matter to Lattice QCD. Physical Review Letters, 2017, 118, 182301.	7.8	132
2	Repulsive baryonic interactions and lattice QCD observables at imaginary chemical potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 71-78.	4.1	66
3	On the deconfinement phase transition in neutron-star mergers. European Physical Journal A, 2020, 56, 1.	2.5	65
4	Multiplicity dependence of light nuclei production at LHC energies in the canonical statistical model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 171-174.	4.1	56
5	Thermal-FIST: A package for heavy-ion collisions and hadronic equation of state. Computer Physics Communications, 2019, 244, 295-310.	7.5	55
6	Equation of state for hot QCD and compact stars from a mean-field approach. Physical Review C, 2020, 101, .	2.9	48
7	Canonical statistical model analysis of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>p< , <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math> -Pb, and Pb-Pb collisions at energies available at the CERN Large Hadron Collider. Physical Review C, 2019, 100, .	2.9	44
8	Multicomponent van der Waals equation of state: Applications in nuclear and hadronic physics. Physical Review C, 2017, 96, .	2.9	43
9	A machine learning study to identify spinodal clumping in high energy nuclear collisions. Journal of High Energy Physics, 2019, 2019, 1.	4.7	41
10	Cluster expansion model for QCD baryon number fluctuations: No phase transition at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Î¼</mml:mi></mml:mrow><mml:mrow><mml:mi>B</mml:mi></mml:mrow></mml:msub><mml:mo stretchy="false">/</mml:mo><mml:mi>T</mml:mi><mml:mo><</mml:mo><mml:mi>Ï€</mml:mi></mml:mrow></mml:math>. Physical Review D, 2018, 97, .	4.7	38
11	Surprisingly large uncertainties in temperature extraction from thermal fits to hadron yield data at LHC. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 055103.	3.6	29
12	A fast centrality-meter for heavy-ion collisions at the CBM experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135872.	4.1	28
13	Finite resonance widths influence the thermal-model description of hadron yields. Physical Review C, 2018, 98, .	2.9	23
14	Critical point of nuclear matter and beam-energy dependence of net-proton number fluctuations. Physical Review C, 2018, 98, .	2.9	23
15	Beth-Uhlenbeck approach for repulsive interactions between baryons in a hadron gas. Physical Review C, 2018, 97, .	2.9	21
16	Critical point fluctuations: Finite size and global charge conservation effects. Physical Review C, 2020, 102, .	2.9	20
17	Feeddown contributions from unstable nuclei in relativistic heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135746.	4.1	18
18	Quadratic curvature theories formulated as covariant canonical gauge theories of gravity. Physical Review D, 2018, 98, .	4.7	15

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19	Kinetic freeze-out temperature from yields of short-lived resonances. Physical Review C, 2020, 102, .	2.9	15
20	Monte Carlo approach to the excluded-volume hadron resonance gas in grand canonical and canonical ensembles. Physical Review C, 2018, 98, .	2.9	12
21	Repulsive properties of hadrons in lattice QCD data and neutron stars. Physical Review C, 2021, 103, .	2.9	12
22	Ambiguities in the hadro-chemical freeze-out of Au+Au collisions at SIS18 energies and how to resolve them. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136703.	4.1	12
23	A chiral mean-field equation-of-state in UrQMD: effects on the heavy ion compression stage. European Physical Journal C, 2022, 82, 1.	3.9	12
24	QCD at high density: Equation of state for nuclear collisions and neutron stars. Nuclear Physics A, 2019, 982, 891-894.	1.5	11
25	Hagedorn bag-like model with a crossover transition meets lattice QCD. Physical Review C, 2019, 99, .	2.9	11
26	Traces of the nuclear liquid-gas phase transition in the analytic properties of hot QCD. Physical Review C, 2020, 101, .	2.9	11
27	An equation-of-state-meter for CBM using PointNet. Journal of High Energy Physics, 2021, 2021, 1.	4.7	11
28	Modeling baryonic interactions with the Clausius-type equation of state. European Physical Journal A, 2018, 54, 1.	2.5	10
29	Higher order conserved charge fluctuations inside the mixed phase. Physical Review C, 2021, 103, .	2.9	8
30	Nuclear interactions and net-proton number fluctuations in heavy ion collisions at the SIS18 accelerator. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 40-45.	4.1	7
31	Analytic structure of thermodynamic systems with repulsive interactions. Physical Review C, 2019, 100, .	2.9	7
32	Deep Learning Based Impact Parameter Determination for the CBM Experiment. Particles, 2021, 4, 47-52.	1.7	7
33	Critical point signatures in the cluster expansion in fugacities. Physical Review D, 2020, 101, .	4.7	4
34	Gauge theory by canonical transformations. International Journal of Modern Physics E, 2016, 25, 1642005.	1.0	3
35	QCD equation of state at vanishing and high baryon density: Chiral Mean Field model. Nuclear Physics A, 2021, 1005, 121836.	1.5	3
36	From cosmic matter to the laboratory. Astronomische Nachrichten, 2021, 342, 808-818.	1.2	2

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37	van der Waals Interactions and Hadron Resonance Gas: Role of resonance widths modeling on conserved charges fluctuations. EPJ Web of Conferences, 2018, 171, 14006.	0.3	1
38	Hadron thermodynamics from imaginary chemical potentials. EPJ Web of Conferences, 2018, 175, 07046.	0.3	0