

Rafal Sikora

List of Publications by Year in descending order

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88
papers

3,852
citations

136950

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61
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88
all docs

88
docs citations

88
times ranked

4590
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent results on Central Exclusive Production with the STAR detector. SciPost Physics Proceedings, 2022, , .	0.4	0
2	Central exclusive production of charged particle pairs in proton-proton collisions at $\sqrt{s} = 200$ GeV with the STAR detector at RHIC. , 2021, , .		2
3	Nonmonotonic Energy Dependence of Net-Proton Number Fluctuations. Physical Review Letters, 2021, 126, 092301.	7.8	111
4	Measurements of W and Z cross sections and their ratios in strange hadron production in Au+Au collisions at $\sqrt{s} = 2.9$ GeV. Physical Review C, 2020, 102, 054907.	4.7	12
5	Results on total and elastic cross sections in proton-proton collisions at $\sqrt{s} = 200$ GeV. Physical Review C, 2020, 102, 054907.	2.9	54
6	Beam energy dependence of net- \bar{b} fluctuations measured by the STAR experiment at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2020, 102, .	4.1	6
7	Measurement of the central exclusive production of charged particle pairs in proton-proton collisions at $\sqrt{s} = 200$ GeV with the STAR detector at RHIC. Journal of High Energy Physics, 2020, 2020, 1.	2.9	8
8	Investigation of the linear and mode-coupled flow harmonics in Au+Au collisions at $\sqrt{s} = 2.9$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135728.	4.1	10
9	Measurement of groomed jet substructure observables in p+p collisions at $s=200$ GeV with STAR. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135846.	4.1	10
10	Measurement of inclusive charged-particle jet production in Au+Au collisions at $\sqrt{s} = 2.9$ GeV. Physical Review C, 2020, 102, .	2.9	13
11	Polarization in Au+Au collisions at $\sqrt{s} = 2.9$ GeV. Physical Review C, 2020, 102, .	4.7	9
12	Beam-energy dependence of the directed flow of deuterons in Au+Au collisions. Physical Review C, 2020, 102, .	2.9	10
13	Baryon Production in Au+Au collisions at $\sqrt{s} = 2.9$ GeV. Physical Review C, 2020, 102, .	7.8	45
14	Measurement of the mass difference and the binding energy of the hypertriton and antihypertriton. Nature Physics, 2020, 16, 409-412.	16.7	76
15	Underlying event measurements in p+p collisions at $s=200$ GeV at RHIC. Physical Review D, 2020, 101, .	4.7	11
16	Beam-energy dependence of identified two-particle angular correlations in Au+Au collisions. Physical Review C, 2020, 101, .	2.9	5

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19	Bulk properties of the system formed in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2019, 100, 014901.	2.9	18
20	Collision-energy dependence of second-order off-diagonal and diagonal cumulants of net-charge, net-proton, and net-kaon multiplicity distributions in Au+Au collisions. Physical Review C, 2019, 100, 014902.	2.9	31
21	Charge-dependent pair correlations relative to a third particle in Au+Au collisions at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134975.	7.8	61
22	Charge-dependent pair correlations relative to a third particle in Au+Au collisions at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134975.	4.1	24
23	Polarization of Λ production at mid-rapidity in Au+Au collisions. Physical Review C, 2019, 100, 014903.	4.7	10
24	Measurement of inclusive J/ψ suppression in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2019, 100, 014904.	7.8	131
25	Observation of Excess Λ production at mid-rapidity in Au+Au collisions. Physical Review C, 2019, 100, 014905.	4.1	22
26	Yield at Very Low Transverse Momenta in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2019, 100, 014906.	7.8	22
27	Beam energy dependence of (anti)-deuteron production in Au+Au collisions at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2019, 99, 014907.	2.9	53
28	Centrality and transverse momentum dependence of Λ production in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2019, 100, 014908.	4.1	56
29	Collision-energy dependence of Λ production in Au+Au collisions at energies available at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2019, 99, 014909.	2.9	19
30	Azimuthal Harmonics in Small and Large Collision Systems at RHIC Top Energies. Physical Review Letters, 2019, 122, 172301.	7.8	36
31	Measurement of the longitudinal spin asymmetries for weak boson production in proton-proton collisions at $\sqrt{s} = 13.6$ TeV. Physical Review D, 2019, 100, 014001.	4.7	23
32	Centrality and transverse momentum dependence of Λ production in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2019, 100, 014908.	2.9	47
33	Centrality and transverse momentum dependence of Λ production in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2019, 100, 014908.	4.7	30
34	Constraining the initial conditions and temperature dependent viscosity with three-particle correlations in Au+Au collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 81-88.	4.1	3
35	Recent Results on Central Exclusive Production with the STAR Detector at RHIC. Acta Physica Polonica B, Proceedings Supplement, 2019, 12, 811.	0.1	2
36	Azimuthal transverse single-spin asymmetries of inclusive jets and charged pions within jets from polarized-proton collisions at $\sqrt{s} = 13.6$ TeV. Physical Review D, 2018, 97, 014001.	4.7	27

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37	Energy Dependence of Directed Flow of Λ Hyperons in Au+Au Collisions at RHIC. Physical Review C, 2018, 98, .	7.8	66
38	Improved measurement of the longitudinal spin transfer to Λ hyperons in Au+Au collisions at RHIC. Physical Review C, 2018, 98, .	4.7	7
39	Low- p_T production cross section and its dependence on charged-particle multiplicity in $p\bar{e} + e\bar{e} p$ collisions at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 87-93.	4.7	12
40	Pair Production in $\Lambda\bar{\Lambda}$ Production in Au+Au Collisions at RHIC. Physical Review C, 2018, 98, .	4.1	6
41	$\Lambda\bar{\Lambda}$ production cross section and its dependence on charged-particle multiplicity in $p\bar{e} + e\bar{e} p$ collisions at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 87-93.	4.1	25
42	Harmonic decomposition of three-particle azimuthal correlations at energies available at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2018, 98, .	2.9	33
43	Longitudinal double-spin asymmetries for Λ hyperons in the forward direction for 510 GeV polarized pp collisions. Physical Review D, 2018, 98, .	4.7	9
44	Longitudinal double-spin asymmetries for dijet production at intermediate pseudorapidity in polarized pp collisions at RHIC. Physical Review D, 2018, 98, .	4.7	13
45	Collision energy dependence of moments of net-kaon multiplicity distributions at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 551-560.	4.1	107
46	Measurement of the Λ lifetime in Au+Au collisions at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2018, 97, .	2.9	52
47	Correlation measurements between flow harmonics in Au+Au collisions at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 783, 459-465.	4.1	22
48	Global polarization of Λ hyperons in Au + Au collisions at RHIC. Physical Review C, 2018, 98, .	2.9	205
49	Beam Energy Dependence of Jet-Quenching Effects in Au+Au Collisions at $\sqrt{s_{NN}}=7.7, 11.5, 14.5, 19.6, 27, 39,$ and 62.4 GeV. Physical Review Letters, 2018, 121, 032301.	7.8	33
50	Transverse spin-dependent azimuthal correlations of charged pion pairs measured in $p\bar{e} + e\bar{e} p$ collisions at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 332-339.	4.1	19
51	Beam energy dependence of rapidity-even dipolar flow in Au+Au collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 26-32.	4.1	7
52	Azimuthal anisotropy in Cu+Au collisions at RHIC. Physical Review C, 2018, 98, .	4.1	9
53	Direct virtual photon production in Au+Au collisions at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 451-458.	4.1	37
54	Bulk properties of the medium produced in relativistic heavy-ion collisions from the beam energy scan program. Physical Review C, 2017, 96, .	2.9	357

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55	Jet imbalance measurements in $\sqrt{s_{NN}}=200$ GeV Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2017, 118, 012301.	7.8	20
56	Measurements of jet quenching with semi-inclusive hadron+jet distributions in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2017, 118, 012301.	2.9	44
57	Energy dependence of π^0 production in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2017, 118, 012301.	2.9	32
58	Charge-Dependent Directed Flow in Au+Au Collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2017, 118, 012301.	7.8	19
59	Global Λ hyperon polarization in nuclear collisions. Nature, 2017, 548, 62-65.	27.8	585
60	Coherent diffractive photoproduction of mesons on gold nuclei at 200 GeV/nucleon-pair at the Relativistic Heavy Ion Collider. Physical Review C, 2017, 96, .	2.9	32
61	Measurement of the cross section and longitudinal double-spin asymmetry for dijet production in polarized pp collisions at $\sqrt{s}=200$ GeV. Physical Review D, 2017, 95, .	4.7	22
62	STAR Collaboration. Nuclear Physics A, 2017, 967, 1007-1010.	1.5	1
63	Elliptic flow of electrons from heavy-flavor hadron decays in Au+Au collisions at $\sqrt{s_{NN}}=200$, 62.4, and 39 GeV. Physical Review C, 2017, 95, .	2.9	18
64	Measurement of D^0 Azimuthal Anisotropy at Midrapidity in Au+Au Collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2017, 118, 012301.	7.8	19
65	Central exclusive production in the STAR experiment at RHIC. AIP Conference Proceedings, 2017, , .	0.4	5
66	Measurement of elliptic flow of light nuclei at $\sqrt{s_{NN}}=200$, 62.4, 39, 27, 19.6, 11.5, and 7.7 GeV at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2016, 94, .	2.9	32
67	in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2016, 94, .	2.9	3
68	STAR Collaboration. Nuclear Physics A, 2016, 956, 971-974.	1.5	1
69	Jet-like correlations with direct-photon and neutral-pion triggers at $\sqrt{s_{NN}}=200$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 689-696.	4.1	36
70	Centrality dependence of identified particle elliptic flow in relativistic heavy ion collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2016, 93, .	2.9	55
71	Probing parton dynamics of QCD matter with π^0 production. Physical Review C, 2016, 93, .	2.9	43
72	J/ψ production at low transverse momentum in p+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2016, 93, .	2.9	13

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73	Long-range pseudorapidity dihadron correlations in d + Au collisions at RHIC. Physical Review Letters, 2016, 116, 112302.	7.8	58
74	Measurement of the Transverse Single-Spin Asymmetry in Au + Au Collisions at RHIC. Physical Review Letters, 2016, 116, 112302.	7.8	73
75	Beam Energy Dependence of the Third Harmonic of Azimuthal Correlations in Au + Au Collisions at RHIC. Physical Review Letters, 2016, 116, 112302.	7.8	47
76	Λ production in U + U collisions at 200 GeV measured with the STAR experiment. Physical Review C, 2016, 94, .	2.9	21
77	Di-hadron correlations with identified leading hadrons in 200 GeV Au + Au and d + Au collisions at STAR. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 233-240.	4.1	11
78	Energy dependence of K^0_S , π^0 , and K^0 fluctuations in Au + Au collisions from NN=7.7 to 200 GeV. Physical Review C, 2015, 92, .	2.9	17
79	Measurements of dielectron production in Au + Au collisions at 200 GeV from the STAR experiment. Physical Review C, 2015, 92, .	2.9	17
80	Observation of Charge Asymmetry Dependence of Pion Elliptic Flow and the Possible Chiral Magnetic Wave in Heavy-Ion Collisions. Physical Review Letters, 2015, 114, 252302.	7.8	93
81	Observation of Transverse Spin-Dependent Azimuthal Correlations of Charged Pion Pairs in Au + Au Collisions at RHIC. Physical Review Letters, 2015, 114, 252302.	7.8	25
82	Azimuthal Anisotropy in Au + Au Collisions at RHIC. Physical Review Letters, 2015, 114, 252302.	7.8	85
83	Long-range pseudorapidity dihadron correlations in d + Au collisions at RHIC. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 265-271.	4.1	68
84	Feasibility studies of the exclusive diffractive bremsstrahlung measurement at RHIC energies. , 2015, , .		0
85	Study of elastic proton-proton scattering with the STAR detector at RHIC. , 2015, , .		0
86	Energy dependence of acceptance-corrected dielectron excess mass spectrum at mid-rapidity in Au + Au collisions at RHIC. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 265-271.	4.1	32
87	Measurement of interaction between antiprotons. Nature, 2015, 527, 345-348.	27.8	71
88	Feasibility Studies of Exclusive Diffractive Bremsstrahlung Measurement at RHIC Energies. Acta Physica Polonica B, 2015, 46, 1979.	0.8	5