

# Grigory A Nigmatkulov

## List of Publications by Year in descending order

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119  
papers

4,800  
citations

81839

39  
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98753

67  
g-index

120  
all docs

120  
docs citations

120  
times ranked

4908  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global $\Lambda$ hyperon polarization in nuclear collisions. Nature, 2017, 548, 62-65.	13.7	585
2	Bulk properties of the medium produced in relativistic heavy-ion collisions from the beam energy scan program. Physical Review C, 2017, 96, .	1.1	357
3	Global polarization of $\Lambda$ hyperons in Au + Au collisions at $\sqrt{s_{NN}} = 2.76$ GeV. Physical Review C, 2018, 98, .	1.1	205
4	Beam-Energy Dependence of the Directed Flow of Protons, Antiprotons, and Pions in Au+Au Collisions. Physical Review Letters, 2014, 112, 162301.	2.9	186
5	Nuclear Modifications in $\Lambda$ Collisions at RHIC. Physical Review Letters, 2014, 113, 052302.	2.9	179
6	Beam-Energy Dependence of Charge Separation along the Magnetic Field in $\Lambda$ Collisions at RHIC. Physical Review Letters, 2014, 113, 052302.	2.9	147
7	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.	2.9	131
8	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.	1.5	107
9	Azimuthal Anisotropy at Midrapidity in $\Lambda$ Collisions at $\sqrt{s_{NN}} = 2.76$ GeV. Physical Review Letters, 2015, 114, 252302.	2.9	95
10	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.	2.9	93
11	Correlation of $\Lambda$ and $\bar{\Lambda}$ in $\Lambda$ Collisions at $\sqrt{s_{NN}} = 2.76$ GeV. Physical Review Letters, 2015, 115, 092002.	2.9	85
12	Correlation of $\Lambda$ and $\bar{\Lambda}$ in $\Lambda$ Collisions at $\sqrt{s_{NN}} = 2.76$ GeV. Physical Review Letters, 2015, 115, 092002.	2.9	80
13	Measurement of the mass difference and the binding energy of the hypertriton and antihypertriton. Nature Physics, 2020, 16, 409-412.	6.5	76
14	Measurement of the Transverse Single-Spin Asymmetry in $\Lambda$ Collisions at $\sqrt{s_{NN}} = 2.76$ GeV. Physical Review Letters, 2015, 115, 092002.	2.9	73
15	Measurement of interaction between antiprotons. Nature, 2015, 527, 345-348.	13.7	71
16	Precision Measurement of the Longitudinal Double-Spin Asymmetry for Inclusive Jet Production in Polarized Proton Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2015, 115, 092002.	2.9	70
17	Long-range pseudorapidity dihadron correlations in d+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2015, 115, 092002.	2.9	68
18	Beam-Energy Dependence of Directed Flow of $\Lambda$ in $\Lambda$ Collisions at $\sqrt{s_{NN}} = 2.76$ GeV. Physical Review Letters, 2015, 115, 092002.	2.9	66

#	ARTICLE	IF	CITATIONS
19	Beam energy-dependent two-pion interferometry and the freeze-out eccentricity of pions measured in heavy-ion collisions at the STAR detector. <i>Physical Review C</i> , 2015, 92, . Low $p_T < T < p_T$	1.1	65
20	Pair Production in $e^+e^- \rightarrow e^+e^- \gamma \gamma$	2.9	67
21	Measurement of Longitudinal Spin Asymmetries for Weak Boson Production in Polarized Proton-Proton Collisions at RHIC. <i>Physical Review Letters</i> , 2014, 113, 072301. First Observation of the Directed Flow of $D^0$ and $D^+$ and $D^0$ and $D^+$ Meson in $Au+Au$ Collisions	2.9	62
22	Measurement of dielectron production in Au + Au collisions at $D^0$ and $D^+$ Meson in $Au+Au$ Collisions	2.9	61
23	The proton $D^0$ correlation function in $Au+Au$ collisions at $D^0$ and $D^+$ Meson in $Au+Au$ Collisions	2.9	58
24	Measurements of dielectron production in Au + Au collisions at $D^0$ and $D^+$ Meson in $Au+Au$ Collisions	1.5	56
25	Centrality dependence of identified particle elliptic flow in relativistic heavy ion collisions at $D^0$ and $D^+$ Meson in $Au+Au$ Collisions	1.1	55
26	Strange hadron production in $D^0$ and $D^+$ Meson in $Au+Au$ Collisions	1.1	54
27	Beam energy dependence of (anti-)deuteron production in Au + Au collisions at the BNL Relativistic Heavy Ion Collider. <i>Physical Review C</i> , 2019, 99, .	1.1	53
28	Measurement of elliptic flow of light nuclei at $D^0$ and $D^+$ Meson in $Au+Au$ Collisions	1.1	52
29	Measurement of the beam asymmetry $\tilde{\Lambda}^3$ for $\tilde{\Lambda}^0$ and $\tilde{\Lambda}^+$ photoproduction on the proton at $\tilde{\Lambda}^3=9$ GeV. <i>Physical Review C</i> , 2017, 95, .	1.1	49
30	Jet-Hadron Correlations in $D^0$ and $D^+$ Meson in $Au+Au$ Collisions	2.9	48
31	Beam Energy Dependence of the Third Harmonic of Azimuthal Correlations in $D^0$ and $D^+$ Meson in $Au+Au$ Collisions	2.9	47
32	First Measurement of $D^0$ and $D^+$ Meson in $Au+Au$ Collisions	1.1	47
33	Baryon Production in $D^0$ and $D^+$ Meson in $Au+Au$ Collisions	2.9	45

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37	Measurements of jet quenching with semi-inclusive hadron+jet distributions in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ and $2.76$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 116, 112301.	1.1	44
38	Probing parton dynamics of QCD matter with $\pi^0$ production. Physical Review C, 2016, 93, .	1.1	43
39	First results from the GlueX experiment. AIP Conference Proceedings, 2016, , .	0.3	40
40	Direct virtual photon production in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 451-458.	1.5	37
41	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.	1.5	36
42	Azimuthal Harmonics in Small and Large Collision Systems at RHIC Top Energies. Physical Review Letters, 2019, 122, 172301.	2.9	36
43	Harmonic decomposition of three-particle azimuthal correlations at energies available at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2018, 98, .	1.1	33
44	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.	2.9	33
45	Mass spectrum at mid-rapidity in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 13-20.	1.5	32
46	Coherent diffractive photoproduction of $\pi^0$ mesons on gold nuclei at 200 GeV/nucleon-pair at the Relativistic Heavy Ion Collider. Physical Review C, 2017, 96, .	1.1	32
47	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, .	1.1	31
48	Energy dependence of $J/\psi$ production in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 13-20.	1.5	30
49	Elementary Particle and High-Energy Physics, 2017, 771, 13-20.	1.6	30
50	Azimuthal transverse single-spin asymmetries of inclusive jets and charged pions within jets from polarized-proton collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review D, 2018, 97, .	1.6	27
51	Elementary Particle and High-Energy Physics, 2018, 786, 87-93.	2.9	25
52	$J/\psi$ production cross section and its dependence on charged-particle multiplicity in p+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 87-93.	1.5	25
53	Effect of event selection on jetlike correlation measurement in d+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 333-338.	1.5	24
54	Charge-dependent pair correlations relative to a third particle in p+Au and d+Au collisions at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 798, 134975.	1.5	24

#	ARTICLE	IF	CITATIONS
55	Azimuthal anisotropy in Cu+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review C, 2018, 98, .	1.6	23
56	Measurement of the longitudinal spin asymmetries for weak boson production in proton-proton collisions at $\sqrt{s} = 510$ GeV. Physical Review D, 2019, 99, .	1.6	23
57	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, .	1.6	22
58	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.	1.5	22
59	Observation of 'Excess' $\chi$ particles. Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 332-339.	1.5	22
60	Yield at Very Low Transverse Momenta in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review C, 2016, 94, .	2.9	22
61	Beam-energy dependence of charge balance functions from Au + Au collisions at energies available at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2016, 94, .	1.1	21
62	$\chi$ production in U + U collisions at $\sqrt{s_{NN}} = 200$ GeV measured with the STAR experiment. Physical Review C, 2016, 94, .	1.1	21
63	Charge-Dependent Directed Flow in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2017, 118, 012301.	2.9	20
64	Transverse spin-dependent azimuthal correlations of charged pion pairs measured in $p\bar{p}$ collisions at $\sqrt{s} = 500$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 332-339.	2.9	19
65	Collision-energy dependence of $\chi$ correlations in Au + Au collisions at energies available at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2019, 99, .	1.5	19
66	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, .	1.1	18
67	Measurement of groomed jet substructure observables in p+p collisions at $\sqrt{s} = 200$ GeV with STAR. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135846.	1.5	18
68	Bulk properties of the system formed in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV at the BNL STAR detector. Physical Review C, 2020, 101, .	1.1	18
69	Energy dependence of $\langle K^0_S \rangle, \langle \pi^0 \rangle,$ and $\langle K^0_S \rangle$ fluctuations in Au+Au collisions from $\sqrt{s_{NN}} = 7.7$ to $200$ GeV. Physical Review C, 2015, 92, .	1.1	17
70	$\chi$ production at low transverse momentum in p+p and d+d Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review C, 2016, 93, .	1.1	13
71	Longitudinal double-spin asymmetries for dijet production at intermediate pseudorapidity in polarized pp collisions at $\sqrt{s} = 200$ GeV. Physical Review D, 2018, 98, .	1.6	13
72			

#	ARTICLE	IF	CITATIONS
73	Measurement of inclusive charged-particle jet production in Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 115, 23-26.	1.1	13
74	Transverse spin transfer to $\Lambda$ hyperons in polarized proton-proton collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 115, 23-26.	1.6	12
75	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.	1.6	12
76	Measurement of flow and nonflow correlations by two- and four-particle cumulant measurements of azimuthal harmonics in Au+Au collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 745, 40-47.	1.5	11
77	Beam energy dependence of net- $\Lambda$ fluctuations measured by the STAR experiment at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2020, 102, .	1.1	11
79	Underlying event measurements in p+p collisions at $s = 200$ GeV at RHIC. Physical Review D, 2020, 101, .	1.6	11
80	Measurements of the transverse-momentum-dependent cross sections of $J/\psi$ production at mid-rapidity in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 120, 11-14.	1.6	10
81	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.	1.6	10
82	Investigation of the linear and mode-coupled flow harmonics in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135728.	1.5	10
83	Beam-energy dependence of the directed flow of deuterons in Au+Au collisions. Physical Review C, 2020, 102, .	1.1	10
84	Longitudinal double-spin asymmetries for $\bar{K}^0$ s in the forward direction for 510 GeV polarized pp collisions. Physical Review D, 2018, 98, .	1.6	9
85	Measurement of inclusive $J/\psi$ polarization in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 120, 11-14.	1.6	9
86	Measurement of $\Lambda$ -meson two-dimensional angular correlations in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 120, 11-14.	1.1	8
87	Dielectron azimuthal anisotropy at mid-rapidity in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 120, 11-14.	1.1	8
88	Improved measurement of the longitudinal spin transfer to $\Lambda$ hyperons in polarized proton-proton collisions. Physical Review Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 120, 11-14.	1.6	7
89	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.	1.5	7
90	Results on total and elastic cross sections in proton-proton collisions at $\sqrt{s} = 200$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135663.	1.5	6

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91	Charged-to-neutral correlation at forward rapidity in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Nuclear Physics A, 2016, 956, 971-974.		
92	Near-side azimuthal and pseudorapidity correlations using neutral strange baryons and mesons in Au+Au collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 81-88.	1.1	3
93	The transverse momentum dependence of charged kaon Bose-Einstein correlations in the SELEX experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 458-464.	1.5	3
94	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.	1.5	3
95	Recent flow and femtoscopy results from STAR. EPJ Web of Conferences, 2019, 204, 03010.	0.1	2
96	Femtoscopic scales of particle-emitting source in small and large systems. Journal of Physics: Conference Series, 2019, 1390, 012028.	0.3	2
97	Recent STAR Results from Heavy-Ion and Polarized Proton Programs. EPJ Web of Conferences, 2019, 222, 01004.	0.1	2
98	Measurement of away-side broadening with self-subtraction of flow in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Chinese Physics C, 2020, 44, 104001.	1.5	2
99	STAR Collaboration. Nuclear Physics A, 2016, 956, 971-974.	0.6	1
100	STAR Collaboration. Nuclear Physics A, 2017, 967, 1007-1010.	0.6	1
101	Modeling of two-particle femtoscopic correlations at top RHIC energy. Journal of Physics: Conference Series, 2017, 798, 012055.	0.3	1
102	STAR Collaboration. Nuclear Physics A, 2019, 982, 1063-1066.	0.6	1
103	STAR Highlights and Future. Journal of Physics: Conference Series, 2019, 1390, 012020.	0.3	1
104	Femtoscopic Probes with Strange Particles in STAR. Physics of Particles and Nuclei, 2020, 51, 248-251.	0.2	1
105	Femtосcopy with Identified Charged Particles for the NICA Energy Range. Physics of Particles and Nuclei, 2020, 51, 252-257.	0.2	1
106	Particle Multiplicity Fluctuations and Spatiotemporal Properties of Particle-Emitting Source of Strongly Interacting Matter for NICA and RHIC Energies. Symmetry, 2022, 14, 1316.	1.1	1
107	STAR Collaboration. Nuclear Physics A, 2014, 932, 634-637.	0.6	0
108	STAR Collaboration. Nuclear Physics A, 2014, 931, 1237-1240.	0.6	0

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109	Two-meson Correlation Femtoscopy in the SELEX Experiment. Physics Procedia, 2015, 74, 92-96.	1.2	0
110	Recent results of the femtoscopic measurements from RHIC and LHC. Journal of Physics: Conference Series, 2016, 675, 022013.	0.3	0
111	Bose-Einstein correlations of charged kaons in p+pcollisions with the STAR detector. Journal of Physics: Conference Series, 2016, 668, 012073.	0.3	0
112	KAON FEMTOSCOPY MEASUREMENTS IN THE SELEX EXPERIMENT. , 2017, , 259-262.		0
113	Beam and target dependencies of two-kaon femtoscopic correlations in SELEX. EPJ Web of Conferences, 2017, 138, 03013.	0.1	0
114	Estimation of pion-emitting source in symmetric and asymmetric collisions using the UrQMD model. EPJ Web of Conferences, 2019, 204, 03017.	0.1	0
115	Correlation femtoscopy at NICA energies. EPJ Web of Conferences, 2019, 222, 02004.	0.1	0
116	Status of the Experiments at the Megascience Complex RHIC. Journal of Physics: Conference Series, 2020, 1685, 012022.	0.3	0
117	STAR Collaboration. Nuclear Physics A, 2021, 1005, 122096.	0.6	0
118	Pion femtoscopy in p+Au and Au+Au collisions at $\sqrt{s_{NN}}=200\text{GeV}$ using transport approach. Journal of Physics: Conference Series, 2020, 1690, 012131.	0.3	0
119	Measurements of the like-sign pion and kaon femtoscopic correlations at NICA energies. Journal of Physics: Conference Series, 2020, 1690, 012132.	0.3	0