

Ivan Vitev

List of Publications by Year in descending order

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126
papers

7,210
citations

50276

46
h-index

54911

84
g-index

131
all docs

131
docs citations

131
times ranked

5076
citing authors

#	ARTICLE	IF	CITATIONS
1	Reaction operator approach to non-abelian energy loss. Nuclear Physics B, 2001, 594, 371-419.	2.5	619
2	Non-Abelian Energy Loss at Finite Opacity. Physical Review Letters, 2000, 85, 5535-5538.	7.8	419
3	Heavy-flavour and quarkonium production in the LHC era: from proton to heavy-ion collisions. European Physical Journal C, 2016, 76, 107.	3.9	400
4	High-pT Azimuthal Asymmetry in Noncentral A+A at RHIC. Physical Review Letters, 2001, 86, 2537-2540.	7.8	313
5	High-pT Tomography of Au+Au and Au+Au at SPS, RHIC, and LHC. Physical Review Letters, 2002, 89, 252301.	7.8	292
6	Heavy-ion collisions at the LHC – Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	3.6	255
7	Jet quenching in thin quark-gluon plasmas I: formalism. Nuclear Physics B, 2000, 571, 197-233.	2.5	220
8	Light-cone wave function approach to open heavy flavor dynamics in QCD matter. Physical Review C, 2009, 80, .	2.9	179
9	PREDICTIONS FOR p+Pb COLLISIONS AT $\sqrt{s_{NN}} = 5$. International Journal of Modern Physics E, 2013, 22, 1330007.	1.0	165
10	Jet tomography of Au+Au reactions including multi-gluon fluctuations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 538, 282-288.	4.1	160
11	QCD evolution of the Sivers asymmetry. Physical Review D, 2014, 89, .	4.7	137
12	Extraction of heavy-flavor transport coefficients in QCD matter. Nuclear Physics A, 2018, 979, 21-86.	1.5	137
13	Non-Abelian energy loss in cold nuclear matter. Physical Review C, 2007, 75, .	2.9	125
14	Collisional dissociation of heavy mesons in dense QCD matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 649, 139-146.	4.1	125
15	A theory of jet shapes and cross sections: from hadrons to nuclei. Journal of High Energy Physics, 2008, 2008, 093-093.	4.7	110
16	Jet Tomography of High-Energy Nucleus-Nucleus Collisions at Next-to-Leading Order. Physical Review Letters, 2010, 104, 132001.	7.8	109
17	reactions at the Large Hadron Collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 224-232.	4.1	108
18	Initial state parton broadening and energy loss probed in d+Au at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 562, 36-44.	4.1	107

#	ARTICLE	IF	CITATIONS
19	Large angle hadron correlations from medium-induced gluon radiation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 630, 78-84.	4.1	102
20	Transverse expansion and high pT azimuthal asymmetry at RHIC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 301-308.	4.1	94
21	An effective theory for jet propagation in dense QCD matter: jet broadening and medium-induced bremsstrahlung. Journal of High Energy Physics, 2011, 2011, 1.	4.7	94
22	Last call for RHIC predictions. Nuclear Physics A, 1999, 661, 205-260.	1.5	91
23	The semi-inclusive jet function in SCET and small radius resummation for inclusive jet production. Journal of High Energy Physics, 2016, 2016, 1.	4.7	91
24	Momentum Imbalance of Isolated Photon-Tagged Jet Production at RHIC and LHC. Physical Review Letters, 2013, 110, 142001.	7.8	89
25	High transverse momentum quarkonium production and dissociation in heavy ion collisions. Physical Review C, 2013, 87, .	2.9	88
26	Coherent QCD multiple scattering in proton-nucleus collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 632, 507-511.	4.1	86
27	Jet quenching and the R_{pA} anomaly in heavy ion collisions at relativistic energies. Physical Review C, 2002, 65, .	2.9	76
28	Medium-induced parton splitting kernels from Soft Collinear Effective Theory with Glauber gluons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 706, 371-378.	4.1	75
29	Testing the theory of QGP-induced energy loss at RHIC and the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 639, 38-45.	4.1	69
30	Reaction operator approach to multiple elastic scatterings. Physical Review D, 2002, 66, .	4.7	67
31	Jet quenching from QCD evolution. Physical Review D, 2016, 93, .	4.7	66
32	Towards the understanding of jet shapes and cross sections in heavy ion collisions using soft-collinear effective theory. Journal of High Energy Physics, 2016, 2016, 1.	4.7	65
33	Resummed QCD Power Corrections to Nuclear Shadowing. Physical Review Letters, 2004, 93, 262301.	7.8	64
34	JET QUENCHING AND RADIATIVE ENERGY LOSS IN DENSE NUCLEAR MATTER. , 2004, , 123-191.		63
35	Probing the Hardest Branching within Jets in Heavy-Ion Collisions. Physical Review Letters, 2017, 119, 112301.	7.8	63
36	Nuclear modification of high transverse momentum particle production in p+A collisions at RHIC and LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 482-487.	4.1	62

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37	Physics of Z -tagged jets at energies available at the CERN Large Hadron Collider. <i>Physical Review C</i> , 2011, 83, .	2.9	60
38	Jet Quenching Phenomenology from Soft-Collinear Effective Theory with Glauber Gluons. <i>Physical Review Letters</i> , 2015, 114, 092002.	7.8	59
39	Inclusive b-jet production in heavy ion collisions at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 726, 251-256.	4.1	58
40	A possible determination of the quark radiation length in cold nuclear matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 704, 590-595.	4.1	52
41	Inclusive production of small radius jets in heavy-ion collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 769, 242-248.	4.1	52
42	Jet substructure using semi-inclusive jet functions in SCET. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	51
43	Effective field theory approach to open heavy flavor production in heavy-ion collisions. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	51
44	A systematic study of direct photon production in heavy ion collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 669, 337-344.	4.1	49
45	Jet tomography. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2004, 30, S791-S800.	3.6	48
46	Open charm tomography of cold nuclear matter. <i>Physical Review D</i> , 2006, 74, .	4.7	47
47	Multiple scattering effects on heavy meson production in p+A collisions at backward rapidity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 740, 23-29.	4.1	46
48	Nuclear shadowing in neutrino-nucleus deeply inelastic scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 587, 52-61.	4.1	45
49	Di-hadron momentum imbalance and correlations in d -Au collisions. <i>Physical Review D</i> , 2012, 85, .	4.7	44
50	Transverse momentum diffusion and broadening of the back-to-back di-hadron correlation function. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 570, 161-170.	4.1	43
51	Predictions for cold nuclear matter effects in p+Pb collisions at \sqrt{s} Nucleon-Nucleon collisions at $\sqrt{s} = 2.76$ TeV. <i>Nuclear Physics A</i> , 2018, 972, 18-85.	1.5	43
52	Next-to-Leading-Order Forward Hadron Production in the Small- x Regime: The Role of Rapidity Factorization. <i>Physical Review Letters</i> , 2014, 113, 062002.	7.8	42
53	Prospects for quarkonium studies at the high-luminosity LHC. <i>Progress in Particle and Nuclear Physics</i> , 2022, 122, 103906.	14.4	41
54	Formation and decay of hadronic resonances in the QGP. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 669, 92-97.	4.1	40

#	ARTICLE	IF	CITATIONS
73	Next-to-leading order transverse momentum-weighted Siverts asymmetry in semi-inclusive deep inelastic scattering: The role of the three-gluon correlator. <i>Physical Review D</i> , 2015, 92, .	4.7	23
74	Hadron production from quark coalescence and jet fragmentation. <i>Physical Review C</i> , 2005, 71, .	2.9	21
75	Transverse momentum imbalance of back-to-back particle production in pA collisions. <i>Physical Review D</i> , 2012, 86, .	4.7	21
76	Photon-tagged and B-meson-tagged b-jet production at the LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 750, 287-293.	4.1	21
77	Theoretical developments in heavy and light flavor energy loss. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008, 35, 104011.	3.6	20
78	Heavy meson tomography of cold nuclear matter at the electron-ion collider. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 816, 136261.	4.1	18
79	Novel heavy flavour suppression mechanisms in the QGP. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007, 34, S769-S773.	3.6	17
80	Inclusive heavy flavor jet production with semi-inclusive jet functions: from proton to heavy-ion collisions. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	17
81	Photon-tagged heavy meson production in high energy nuclear collisions. <i>Physical Review D</i> , 2011, 84, .	4.7	16
82	Transverse-energy-energy correlations in deep inelastic scattering. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	15
83	Jet quenching in thin plasmas. <i>Nuclear Physics A</i> , 1999, 661, 637-640.	1.5	14
84	The theory and phenomenology of jets in nuclear collisions. <i>European Physical Journal C</i> , 2009, 62, 139-144.	3.9	14
85	Jet charge modification in finite QCD matter. <i>Physical Review D</i> , 2020, 101, .	4.7	14
86	Operator definition and derivation of collisional energy and momentum loss in relativistic plasmas. <i>Physical Review D</i> , 2014, 89, .	4.7	13
87	Energy-energy correlators in deep inelastic scattering. <i>Physical Review D</i> , 2021, 103, .	4.7	13
88	Multiple scattering effects on inclusive particle production in the large- x regime. <i>Physical Review D</i> , 2013, 88, .	4.7	12
89	Light and heavy flavor dijet production and dijet mass modification in heavy ion collisions. <i>Physical Review D</i> , 2019, 99, .	4.7	12
90	Nuclear Matter Effects on Jet Production at Electron-Ion Colliders. <i>Physical Review Letters</i> , 2021, 126, 252001.	7.8	12

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91	An effective theory of quarkonia in QCD matter. Journal of High Energy Physics, 2019, 2019, 1.	4.7	12
92	A New Heavy Flavor Program for the Future Electron-Ion Collider. EPJ Web of Conferences, 2020, 235, 04002.	0.3	10
93	Spin asymmetries for vector boson production in polarized p+p collisions. Physical Review D, 2016, 93, .	4.7	8
94	Initial-state splitting kernels in cold nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 706-712.	4.1	7
95	Heavy flavor jet production and substructure in electron-nucleus collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 137007.	4.1	7
96	Jet quenching in relativistic heavy ion collisions. Journal of Physics: Conference Series, 2006, 50, 119-126.	0.4	6
97	Jets in Evolving Matter within the Opacity Expansion Approach. SciPost Physics Proceedings, 2022, , .	0.4	6
98	Multiparton Tomography of Hot and Cold Nuclear Matter. AIP Conference Proceedings, 2004, , .	0.4	5
99	Jet Energy Loss in Hot and Dense Matter. Acta Physica Hungarica A Heavy Ion Physics, 2003, 17, 237-247.	0.4	4
100	PROBING THE PHASES OF QCD IN ULTRA-RELATIVISTIC NUCLEAR COLLISIONS. International Journal of Modern Physics A, 2005, 20, 3777-3782.	1.5	4
101	Initial-state bremsstrahlung versus final-state hydrodynamic sources of azimuthal harmonics in p and A collisions at RHIC and LHC. Nuclear Physics A, 2014, 931, 943-948.	1.5	4
102	NLO analysis of inclusive jet, tagged jet and di-jet production in Pb+Pb collisions at the LHC. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124087.	3.6	3
103	DIRECT PHOTON PRODUCTION IN $d+A$ AND $A+A$ COLLISIONS AT RHIC. Modern Physics Letters A, 2009, 24, 2649-2658.	1.2	2
104	A Brief Overview of Fixed-Order Perturbative QCD Calculations of Jet Production in Heavy-Ion Collisions. Progress of Theoretical Physics Supplement, 2011, 187, 68-77.	0.1	2
105	TRANSVERSE MOMENTUM-WEIGHTED SIVERS ASYMMETRY IN SEMI-INCLUSIVE DEEP INELASTIC SCATTERING AT NEXT-TO-LEADING ORDER. International Journal of Modern Physics Conference Series, 2014, 25, 1460019.	0.7	2
106	Sivers Asymmetry with QCD Evolution. International Journal of Modern Physics Conference Series, 2015, 37, 1560025.	0.7	2
107	Quarkonium tomography of heavy ion collisions at the LHC. Nuclear Physics A, 2019, 982, 731-734.	1.5	2
108	Nuclear Effects on Open Charm Production in $p+A$ Reactions. Acta Physica Hungarica A Heavy Ion Physics, 2006, 27, 275-279.	0.4	1

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109	Testing the Mechanism of QGP-Induced Energy Loss. Acta Physica Hungarica A Heavy Ion Physics, 2006, 27, 281-286.	0.4	1
110	Recent pQCD calculations of heavy quark production. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, S317-S324.	3.6	1
111	pQCD Approach to Parton Propagation in Matter. Nuclear Physics A, 2007, 783, 31-38.	1.5	1
112	Electroweak Boson-Tagged Jet Event Asymmetries at the Large Hadron Collider. Nuclear Physics A, 2013, 904-905, 701c-704c.	1.5	1
113	Hard Probes in Heavy Ion Collisions: Current Status and Prospects for Application of QCD Evolution Techniques. International Journal of Modern Physics Conference Series, 2015, 37, 1560059.	0.7	1
114	Quenching of inclusive and tagged b-jets at the LHC. Nuclear and Particle Physics Proceedings, 2016, 276-278, 281-284.	0.5	1
115	An Effective Theory of Quarkonia in QCD Matter. Nuclear Physics A, 2021, 1005, 121848.	1.5	1
116	Large angle hadron correlations from medium-induced gluon radiation. Journal of Physics: Conference Series, 2005, 27, 11-21.	0.4	0
117	Results on high transverse momentum quarkonium production and dissociation in heavy ion collisions. Journal of Physics: Conference Series, 2012, 389, 012029.	0.4	0
118	Formation time of hadronic resonances. EPJ Web of Conferences, 2012, 36, 00018.	0.3	0
119	Probing nuclear matter with jets. Nuclear Physics A, 2013, 910-911, 256-259.	1.5	0
120	Soft-collinear effective theory for hadronic and nuclear collisions: The evolution of jet quenching from RHIC to the highest LHC energies. Nuclear Physics A, 2016, 956, 677-680.	1.5	0
121	SCET for jet physics in the vacuum and the medium. Nuclear and Particle Physics Proceedings, 2017, 289-290, 59-64.	0.5	0
122	Jet and heavy flavor production in heavy-ion collisions. Nuclear and Particle Physics Proceedings, 2017, 289-290, 121-124.	0.5	0
123	Inverting the mass hierarchy of jet quenching effects with prompt b -jet substructure. Journal of Physics: Conference Series, 2018, 1070, 012020.	0.4	0
124	Vector boson tagged jets and jet substructure. EPJ Web of Conferences, 2018, 172, 05006.	0.3	0
125	PROBING HOT, DENSE MATTER AT RHIC. , 2002, , .		0
126	Nuclear matter effects on jet production at electron-ion colliders. SciPost Physics Proceedings, 2022, , .	0.4	0