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	Prospects for quarkonium studies at the high-luminosity LHC. Progress in Particle and Nuclear Physics, 2022, 122, 103906.	14.4	41
2	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
3	Jets in Evolving Matter within the Opacity Expansion Approach. SciPost Physics Proceedings, 2022, , .	0.4	6
4	Nuclear matter effects on jet production at electron-ion colliders. SciPost Physics Proceedings, 2022, , .	0.4	0
5	An Effective Theory of Quarkonia in QCD Matter. Nuclear Physics A, 2021, 1005, 121848.	1.5	1
6	Energy-energy correlators in deep inelastic scattering. Physical Review D, 2021, 103, .	4.7	13
7	Heavy meson tomography of cold nuclear matter at the electron-ion collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136261.	4.1	18
8	Nuclear Matter Effects on Jet Production at Electron-Ion Colliders. Physical Review Letters, 2021, 126, 252001.	7.8	12
9	AbÂinitio coupling of jets to collective flow in the opacity expansion approach. Physical Review D, 2021, 104, .	4.7	28
10	Transverse-energy-energy correlations in deep inelastic scattering. Journal of High Energy Physics, 2020, 2020, 1.	4.7	15
11	A New Heavy Flavor Program for the Future Electron-Ion Collider. EPJ Web of Conferences, 2020, 235, 04002.	0.3	10
12	Jet charge modification in finite QCD matter. Physical Review D, 2020, 101, .	4.7	14
13	Inclusive heavy flavor jet production with semi-inclusive jet functions: from proton to heavy-ion collisions. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
14	A complete set of in-medium splitting functions to any order in opacity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 502-510.	4.1	36
15	Quarkonium tomography of heavy ion collisions at the LHC. Nuclear Physics A, 2019, 982, 731-734.	1.5	2
16	Inverting the mass hierarchy of jet quenching effects with prompt b-jet substructure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 259-264.	4.1	30
17	Light and heavy flavor dijet production and dijet mass modification in heavy ion collisions. Physical Review D, 2019, 99, .	4.7	12
18	An effective theory of quarkonia in QCD matter. Journal of High Energy Physics, 2019, 2019, 1.	4.7	12

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19	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</mml:mi> TeV. Nuclear Physics A, 2018, 972, 18-85.	1.5	43
20	Inverting the mass hierarchy of jet quenching effects with prompt b-jet substructure. Journal of Physics: Conference Series, 2018, 1070, 012020.	0.4	0
21	Quark branching in QCD matter to any order in opacity beyond the soft gluon emission limit. Physical Review D, 2018, 98, .	4.7	37
22	Vector boson tagged jets and jet substructure. EPJ Web of Conferences, 2018, 172, 05006.	0.3	0
23	Extraction of heavy-flavor transport coefficients in QCD matter. Nuclear Physics A, 2018, 979, 21-86.	1.5	137
24	Collisional and thermal dissociation of J/Ï^ and Ï' states at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 384-391.	4.1	26
25	Probing the Hardest Branching within Jets in Heavy-Ion Collisions. Physical Review Letters, 2017, 119, 112301.	7.8	63
26	Using hadron-in-jet data in a global analysis of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>D</mml:mi><mml:mo>*</mml:mo></mml:msup></mml:math> fragmentation functions. Physical Review D, 2017, 96, .	4.7	33
27	Vector-boson-tagged jet production in heavy ion collisions at energies available at the CERN Large Hadron Collider. Physical Review C, 2017, 96, .	2.9	30
28	Inclusive production of small radius jets in heavy-ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 242-248.	4.1	52
29	Effective field theory approach to open heavy flavor production in heavy-ion collisions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	51
30	SCET for jet physics in the vacuum and the medium. Nuclear and Particle Physics Proceedings, 2017, 289-290, 59-64.	0.5	0
31	Jet and heavy flavor production in heavy-ion collisions. Nuclear and Particle Physics Proceedings, 2017, 289-290, 121-124.	0.5	0
32	Jet fragmentation functions in proton-proton collisions using soft-collinear effective theory. Journal of High Energy Physics, 2016, 2016, 1.	4.7	35
33	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
34	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
35	Spin asymmetries for vector boson production in polarizedp+pcollisions. Physical Review D, 2016, 93, .	4.7	8
36	Jet quenching from QCD evolution. Physical Review D, 2016, 93, .	4.7	66

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37	Quenching of inclusive and tagged b-jets at the LHC. Nuclear and Particle Physics Proceedings, 2016, 276-278, 281-284.	0.5	1
38	Predictions for p+Pb Collisions at sNN = 5TeV: Comparison with Data. International Journal of Modern Physics E, 2016, 25, 1630005.	1.0	29
39	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
40	Jet substructure using semi-inclusive jet functions in SCET. Journal of High Energy Physics, 2016, 2016, 1.	4.7	51
41	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
42	Heavy-flavour and quarkonium production in the LHC era: from protonâ€“proton to heavy-ion collisions. European Physical Journal C, 2016, 76, 107.	3.9	400
43	Photon-tagged and B-meson-tagged b-jet production at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 287-293.	4.1	21
44	Effects of cold nuclear matter energy loss on inclusive jet production in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mo>+</mml:mo><mml:mi>A</mml:mi> at energies available at the BNL Relativistic Heavy Ion Collider and the CERN Large Hadron Collider. Physical Review C, 2015, 92, .	2.9	26
45	Next-to-leading order transverse momentum-weighted Sivers asymmetry in semi-inclusive deep inelastic scattering: The role of the three-gluon correlator. Physical Review D, 2015, 92, .	4.7	23
46	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
47	Sivers Asymmetry with QCD Evolution. International Journal of Modern Physics Conference Series, 2015, 37, 1560025.	0.7	2
48	Multiple scattering effects on heavy meson production in p+A collisions at backward rapidity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 23-29.	4.1	46
49	Jet Quenching Phenomenology from Soft-Collinear Effective Theory with Glauber Gluons. Physical Review Letters, 2015, 114, 092002.	7.8	59
50	QCD evolution of the Sivers asymmetry. Physical Review D, 2014, 89, .	4.7	137
51	Operator definition and derivation of collisional energy and momentum loss in relativistic plasmas. Physical Review D, 2014, 89, .	4.7	13
52	Non-Abelian bremsstrahlung and azimuthal asymmetries in high energy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mo>+</mml:mo><mml:mi>A</mml:mi></mml:math>reactions. Physical Review D, 2014, 90, .	4.7	28
53	Initial-state bremsstrahlung versus final-state hydrodynamic sources of azimuthal harmonics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>p</mml:mi><mml:mo>+</mml:mo><mml:mi>A</mml:mi></mml:math> at RHIC and LHC. Nuclear Physics A, 2014, 931, 943-948.	1.5	4
54	Next-to-Leading-Order Forward Hadron Production in the Small-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>x</mml:mi></mml:math>Regime: The Role of Rapidity Factorization. Physical Review Letters, 2014, 113, 062002.	7.8	42

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55	Jet shape resummation using soft-collinear effective theory. Journal of High Energy Physics, 2014, 2014, 1.	4.7	34
56	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
57	Angular distributions of higher order splitting functions in the vacuum and in dense QCD matter. Journal of High Energy Physics, 2013, 2013, 1.	4.7	40
58	Probing nuclear matter with jets. Nuclear Physics A, 2013, 910-911, 256-259.	1.5	0
59	Electroweak Boson-Tagged Jet Event Asymmetries at the Large Hadron Collider. Nuclear Physics A, 2013, 904-905, 701c-704c.	1.5	1
60	Inclusive b-jet production in heavy ion collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 251-256.	4.1	58
61	Transverse momentum-weighted Sivers asymmetry in semi-inclusive deep inelastic scattering at next-to-leading order. Physical Review D, 2013, 87, .	4.7	23
62	Multiple scattering effects on inclusive particle production in the large-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>x</mml:mi></mml:math>regime. Physical Review D, 2013, 88, .	4.7	12
63	High transverse momentum quarkonium production and dissociation in heavy ion collisions. Physical Review C, 2013, 87, .	2.9	88
64	Momentum Imbalance of Isolated Photon-Tagged Jet Production at RHIC and LHC. Physical Review Letters, 2013, 110, 142001.	7.8	89
65	PREDICTIONS FOR p+PbCOLLISIONS AT $sqrt{s_{_{it NN}}} = 5$. International Journal of Modern Physics E, 2013, 22, 1330007.	1.0	165
66	Transverse momentum imbalance of back-to-back particle production in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mo mathvariant="bold">+</mml:mo><mml:mi>A</mml:mi></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>e</mml:mi><mml:mo mathvariant="bold">+</mml:mo><mml:mi>A</mml:mi></mml:math>collisions. Physical Review D, 2012, 86, .	4.7	21
67	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Z</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math>-Tagged Jet Event Asymmetry in Heavy-Ion Collisions at the CERN Large Hadron Collider. Physical Review Letters, 2012, 108, 242001.	7.8	34
68	Parton showers as sources of energy-momentum deposition in the quark-gluon plasma and their implication for shockwave formation at energies available at the BNL Relativistic Heavy Ion Collider and at the CERN Large Hadron Collider. Physical Review C, 2012, 86, .	2.9	40
69	Results on high transverse momentum quarkonium production and dissociation in heavy ion collisions. Journal of Physics: Conference Series, 2012, 389, 012029.	0.4	0
70	Dihadron momentum imbalance and correlations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="bold">d</mml:mi><mml:mo mathvariant="bold">+</mml:mo><mml:mi>Au</mml:mi></mml:math>collisions. Physical Review D, 2012, 85, .	4.7	44
71	<mml:mo overflow="scroll"><mml:mi mathvariant="script">O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:msubsup><mml:mrow><mml:mi>Î±</mml:mi></mml:mrow><mml:mrow><mml:mi>s</mml:mi></mml:mrow> reactions at the Large Hadron Collider. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 224-232.	4.1	108
72	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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73	Formation time of hadronic resonances. EPJ Web of Conferences, 2012, 36, 00018.	0.3	0
74	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
75	Photon-tagged heavy meson production in high energy nuclear collisions. Physical Review D, 2011, 84, .	4.7	16
76	A possible determination of the quark radiation length in cold nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 590-595.	4.1	52
77	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
78	Physics of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mi>Z</mml:mi><mml:mrow><mml:mn>0</mml:mn></mml:mrow></mml:msup><mml:mrow><mml:mo>*</mml:mo></mml:mrow></mml:mrow></mml:math>-tagged jets at energies available at the CERN Large Hadron Collider. Physical Review C, 2011, 83, .	2.9	60
79	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
80	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
81	Jet Tomography of High-Energy Nucleus-Nucleus Collisions at Next-to-Leading Order. Physical Review Letters, 2010, 104, 132001.	7.8	109
82	Light-cone wave function approach to open heavy flavor dynamics in QCD matter. Physical Review C, 2009, 80, .	2.9	179
83	DIRECT PHOTON PRODUCTION IN d+A AND A+A COLLISIONS AT RHIC. Modern Physics Letters A, 2009, 24, 2649-2658.	1.2	2
84	The theory and phenomenology of jets in nuclear collisions. European Physical Journal C, 2009, 62, 139-144.	3.9	14
85	Formation and decay of hadronic resonances in the QGP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 669, 92-97.	4.1	40
86	A systematic study of direct photon production in heavy ion collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 669, 337-344.	4.1	49
87	Heavy-ion collisions at the LHCâ€"Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	3.6	255
88	Theoretical developments in heavy and light flavor energy loss. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104011.	3.6	20
89	A theory of jet shapes and cross sections: from hadrons to nuclei. Journal of High Energy Physics, 2008, 2008, 093-093.	4.7	110
90	Non-Abelian energy loss in cold nuclear matter. Physical Review C, 2007, 75, .	2.9	125

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91	Novel heavy flavour suppression mechanisms in the QGP. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, S769-S773.	3.6	17
92	PQCD Approach to Parton Propagation in Matter. Nuclear Physics A, 2007, 783, 31-38.	1.5	1
93	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
94	Open charm tomography of cold nuclear matter. Physical Review D, 2006, 74, .	4.7	47
95	Jet quenching in relativistic heavy ion collisions. Journal of Physics: Conference Series, 2006, 50, 119-126.	0.4	6
96	Coherent QCD multiple scattering in protonâ€“nucleus collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 632, 507-511.	4.1	86
97	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
98	Nuclear Effects on Open Charm Production in p+ A Reactions. Acta Physica Hungarica A Heavy Ion Physics, 2006, 27, 275-279.	0.4	1
99	Testing the Mechanism of QGP-Induced Energy Loss. Acta Physica Hungarica A Heavy Ion Physics, 2006, 27, 281-286.	0.4	1
100	Recent pQCD calculations of heavy quark production. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, S317-S324.	3.6	1
101	Large angle hadron correlations from medium-induced gluon radiation. Journal of Physics: Conference Series, 2005, 27, 11-21.	0.4	0
102	Jet quenching at intermediate RHIC energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 606, 303-312.	4.1	28
103	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
104	Hadron production from quark coalescence and jet fragmentation. Physical Review C, 2005, 71, .	2.9	21
105	PROBING THE PHASES OF QCD IN ULTRA-RELATIVISTIC NUCLEAR COLLISIONS. International Journal of Modern Physics A, 2005, 20, 3777-3782.	1.5	4
106	Jet tomography. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S791-S800.	3.6	48
107	Multiparton Tomography of Hot and Cold Nuclear Matter. AIP Conference Proceedings, 2004, , .	0.4	5
108	Resummed QCD Power Corrections to Nuclear Shadowing. Physical Review Letters, 2004, 93, 262301.	7.8	64

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109	Nuclear shadowing in neutrinoâ€“nucleus deeply inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 587, 52-61.	4.1	45
110	JET QUENCHING AND RADIATIVE ENERGY LOSS IN DENSE NUCLEAR MATTER. , 2004, , 123-191.		63
111	Jet Energy Loss in Hot and Dense Matter. Acta Physica Hungarica A Heavy Ion Physics, 2003, 17, 237-247.	0.4	4
112	Transverse momentum diffusion and broadening of the back-to-back di-hadron correlation function. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 570, 161-170.	4.1	43
113	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
114	High-pT pion quenching versus anti+baryon enhancement in nucleus-nucleus collisions. Nuclear Physics A, 2003, 715, 779c-782c.	1.5	27
115	High-pTTomography ofd+AuandAu+Auat SPS, RHIC, and LHC. Physical Review Letters, 2002, 89, 252301.	7.8	292
116	Jet quenching and thepÂ¯â‰³Ï€â˜’anomaly in heavy ion collisions at relativistic energies. Physical Review C, 2002, 65, .	2.9	76
117	Reaction operator approach to multiple elastic scatterings. Physical Review D, 2002, 66, .	4.7	67
118	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
119	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
120	PROBING HOT, DENSE MATTER AT RHIC. , 2002, , .		0
121	Reaction operator approach to non-abelian energy loss. Nuclear Physics B, 2001, 594, 371-419.	2.5	619
122	HighpTAzimuthal Asymmetry in NoncentralA+Aat RHIC. Physical Review Letters, 2001, 86, 2537-2540.	7.8	313
123	Non-Abelian Energy Loss at Finite Opacity. Physical Review Letters, 2000, 85, 5535-5538.	7.8	419
124	Jet quenching in thin quarkâ€“gluon plasmas I: formalism. Nuclear Physics B, 2000, 571, 197-233.	2.5	220
125	Last call for RHIC predictions. Nuclear Physics A, 1999, 661, 205-260.	1.5	91
126	Jet quenching in thin plasmas. Nuclear Physics A, 1999, 661, 637-640.	1.5	14