Eugene Levin

List of Publications by Year
in descending order

85	2,215	331670 21	265206 42
papers	citations	h-index	g-index

86	86	86	1867
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solution to the evolution equation for high parton density QCD. Nuclear Physics B, 2000, 573, 833-852.	2.5	226
2	New scaling in high energy DIS. Nuclear Physics A, 2001, 691, 779-790.	1.5	128
3	Gluon saturation and inclusive hadron production at LHC. Physical Review D, 2010, 82, .	4.7	87
4	Nonlinear evolution and saturation for heavy nuclei in DIS. Nuclear Physics A, 2001, 693, 787-798.	1.5	86
5	Solutions to the Gribov-Levin-Ryskin equation in the nonperturbative region. Nuclear Physics B, 1992, 387, 617-637.	2.5	83
6	Towards a symmetric approach to high energy evolution: Generating functional with pomeron loops. Nuclear Physics A, 2005, 763, 172-196.	1.5	83
7	Towards a new global QCD analysis: low x DIS data from non-linear evolution. European Physical Journal C, 2003, 27, 411-425.	3.9	82
8	A linear evolution for non-linear dynamics and correlations in realistic nuclei. Nuclear Physics A, 2004, 730, 191-211.	1.5	77
9	Balitsky's hierarchy from Mueller's dipole model and more about target correlations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 607, 131-138.	4.1	63
10	A QCD motivated model for soft interactions at high energies. European Physical Journal C, 2008, 57, 689-709.	3.9	63
11	QCD instantons and the soft pomeron. Nuclear Physics A, 2001, 690, 621-646.	1.5	62
12	Hadron multiplicity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mi>p</mml:mi></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi><mml:mi>A</mml:mi></mml:math>collisions at LHC from the color glass condensate. Physical Review D, 2010, 82, .	4.7	60
13	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi><mml:mi>p</mml:mi></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi><mml:mi>A</mml:mi></mml:math>collisions at the LHC. Physical Review D, 2011, 83, .	4.7	60
14	Scale anomaly and â€œsoftâ€•pomeron in QCD. Nuclear Physics B, 2000, 578, 351-363.	2.5	52
15	Towards a new global QCD analysis: solution to the Balitskyâ€“Kovchegov nonlinear equation at arbitrary impact parameter. Nuclear Physics A, 2004, 742, 55-79.	1.5	45
16	Diffractive dissociation and saturation scale from non-linear evolution in high energy DIS. European Physical Journal C, 2002, 22, 647-654.	3.9	31
17	QCD saturation in the semi-classical approach. Nuclear Physics A, 2003, 727, 139-178.	1.5	28
18	N=4 SYM and QCD motivated approach to soft interactions atÂhigh energies. European Physical Journal C, 2011, 71, 1.	3.9	27

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19	Pomeron calculus in zero transverse dimensions: Summation of pomeron loops and generating functional for multiparticle production processes. European Physical Journal C, 2008, 53, 385-399.	3.9	26
20	Deep inelastic scattering as a probe of entanglement: Confronting experimental data. Physical Review D, 2021, 104, .	4.7	24
21	Soft interaction model and the LHC data. Physical Review D, 2012, 85, .	4.7	22
22	Survival probability for exclusive central diffractive production of colorless states at the LHC. European Physical Journal C, 2006, 47, 655-669.	3.9	21
23	Dipole-dipole scattering in CGC/saturation approach at high energy: summing Pomeron loops. Journal of High Energy Physics, 2013, 2013, 1.	4.7	18
24	QCD saturation and photoproduction on proton and nuclei targets. Physical Review D, 2003, 68, .	4.7	17
25	CGC/saturation approach: A new impact-parameter-dependent model in the next-to-leading order of perturbative QCD. Physical Review D, 2016, 94, .	4.7	17
26	CGC/saturation approach: Secondary Reggeons and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>Ï</mml:mi><mml:mo>=</mml:mo><mml:mrow><mml:mi mathvariant="normal">Re</mml:mi><mml:mo stretchy="false">/</mml:mo><mml:mi mathvariant="normal">Im</mml:mi></mml:mrow></mml:math>dependence on energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 472-476.	4.1	17
27	High energy QCD: Multiplicity distribution and entanglement entropy. Physical Review D, 2020, 102, .	4.7	17
28	Anomalous dimensions of high-twist operators in QCD at N â† 1 and large Q2. Nuclear Physics B, 1994, 419, 39-58.	2.5	16
29	Survival probability of large rapidity gaps in the QCD and N=4 SYM motivated model. European Physical Journal C, 2011, 71, 1.	3.9	14
30	Non-linear equation: Energy conservation and impact parameter dependence. Nuclear Physics A, 2011, 849, 98-119.	1.5	14
31	CGC/saturation approach for soft interactions at high energy: a two channel model. European Physical Journal C, 2015, 75, 1.	3.9	14
32	$$J/{psi }$$ J / Ï production in hadron scattering: three-pomeron contribution. European Physical Journal C, 2019, 79, 1.	3.9	14
33	Total $gamma^*$ p cross section. European Physical Journal C, 1999, 10, 689-696.	3.9	13
34	Survival probabilities for high mass diffraction. European Physical Journal C, 2007, 52, 295.	3.9	13
35	BFKL Pomeron with massive gluons. Physical Review D, 2014, 89, .	4.7	13
36	A model for strong interactions at high energy based on the CGC/saturation approach. European Physical Journal C, 2015, 75, 1.	3.9	13

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37	CGC/saturation approach: A new impact-parameter dependent model. Nuclear Physics A, 2016, 948, 1-18.	1.5	13
38	Recent experimental data and the size of the quark in the constituent quark model. European Physical Journal C, 2002, 25, 277-286.	3.9	12
39	Perturbative QCD and beyond: Azimuthal angle correlations in deuteron-deuteron scattering from Bose-Einstein correlations. Physical Review D, 2017, 95, .	4.7	12
40	QCD saturation and $gamma^{*}$ - $gamma^{*}$ scattering. European Physical Journal C, 2003, 28, 483-493.	3.9	11
41	Unitarity bound for gluon shadowing. Physical Review C, 2009, 79, .	2.9	11
42	CGC/saturation approach for soft interactions at high energy: long range rapidity correlations. European Physical Journal C, 2015, 75, 1.	3.9	11
43	CGC/saturation approach for high energy soft interactions:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>ν</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> proton-proton collisions. Physical Review D, 2016, 93, .	4.7	11
44	CGC/saturation approach for high energy soft interactions: â€˜softâ€™ Pomeron structure and $$ν_{n}$$ ν n in hadron and nucleus collisions from Boseâ€“Einstein correlations. European Physical Journal C, 2016, 76, 1.	3.9	11
45	CGC/saturation approach for soft interactions at high energy: survival probability of central exclusive production. European Physical Journal C, 2016, 76, 1.	3.9	11
46	The components of the $gamma^* gamma^*$ cross section. European Physical Journal C, 2000, 14, 511-523.	3.9	10
47	BFKL Pomeron: modeling confinement. Journal of High Energy Physics, 2013, 2013, 1.	4.7	10
48	High energy amplitude as an admixture of â€˜softâ€™ and â€˜hardâ€™ Pomerons. Nuclear Physics A, 2004, 732, 73-105.	1.5	9
49	Semiclassical solution to the BFKL equation with massive gluons. European Physical Journal C, 2015, 75, 1.	3.9	8
50	Thermal radiation and inclusive production in the CGC/saturation approach at high energies. European Physical Journal C, 2019, 79, 1.	3.9	8
51	Protonâ€“proton interaction in constituent quarks model at LHC energies. European Physical Journal C, 2007, 51, 659-676.	3.9	7
52	Largebbehavior in the CGC/saturation approach: BFKL equation with pion loops. Physical Review D, 2015, 91, .	4.7	7
53	Bose-Einstein correlations in perturbative QCD: vn dependence on multiplicity. Physical Review D, 2017, 96, .	4.7	7
54	A CGC/saturation approach for angular correlations in protonâ€“proton scattering. European Physical Journal C, 2017, 77, 1.	3.9	7

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55	QCD odderon: Nonlinear evolution in the leading twist. Physical Review D, 2020, 101, .	4.7	7
56	Proton-air collisions in a model of soft interactions at high energies. Physical Review D, 2013, 88, .	4.7	6
57	Bose-Einstein correlations andv2nandv2nâˆ’1in hadron and nucleus collisions. Physical Review D, 2017, 95, .	4.7	6
58	Thermal radiation and inclusive production in the Kharzeev-Levin-Nardi model for ion-ion collisions. Physical Review D, 2019, 100, .	4.7	6
59	BFKL equation in the next-to-leading order: solution at large impact parameters. European Physical Journal C, 2019, 79, 1.	3.9	6
60	High energy QCD: multiplicity dependence of quarkonia production. European Physical Journal C, 2021, 81, 1.	3.9	6
61	Inclusive production in a model for soft interactions. Physical Review D, 2011, 84, .	4.7	5
62	Large impact parameter behavior in the CGC/saturation approach: A new nonlinear equation. Physical Review D, 2020, 101, .	4.7	5
63	High energy evolution for Gribov-Zwanziger confinement: Solution to the equation. Physical Review D, 2021, 103, .	4.7	5
64	Total. European Physical Journal C, 1999, 10, 689.	3.9	5
65	Diffraction production in a soft interaction model: Mass distributions. Physical Review D, 2013, 87, .	4.7	4
66	Multiplicity distribution of dipoles in QCD from the Le-Mueller-Munier equation. Physical Review D, 2021, 104, .	4.7	4
67	Gribov-Zwanziger confinement, high energy evolution, and large impact parameter behavior of the scattering amplitude. Physical Review D, 2021, 103, .	4.7	4
68	Two Parton Shower Background forÂAssociateÂWÂHiggsÂProduction. European Physical Journal C, 2009, 61, 1-31.	3.9	3
69	BFKL equation with running QCD coupling and HERA data. Journal of High Energy Physics, 2014, 2014, 1.	4.7	3
70	Azimuthal angle correlations at large rapidities: revisiting density variation mechanism. European Physical Journal C, 2017, 77, 1.	3.9	3
71	Energy evolution ofJ/Îˆproduction in DIS on nuclei. Physical Review D, 2018, 98, .	4.7	3
72	Nuclei in the toy world: beyond the Pomeron in zero transverse dimensions. Journal of High Energy Physics, 2022, 2022, 1.	4.7	3

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73	The BFKL Pomeron calculus: Summing enhanced diagrams. Nuclear Physics A, 2012, 884-885, 51-83.	1.5	2
74	Long-range rapidity correlations in soft interactions at high energies. European Physical Journal C, 2013, 73, 1.	3.9	2
75	CGC/saturation approach: re-visiting the problem of odd harmonics in angular correlations. European Physical Journal C, 2018, 78, 1.	3.9	2
76	Non-linear equation in the re-summed next-to-leading order of perturbative QCD: the leading twist approximation. European Physical Journal C, 2020, 80, 1.	3.9	2
77	New parton model for the soft interactions at high energies: The odderon. Physical Review D, 2020, 101, .	4.7	2
78	N=4 SYM model for soft interactions at high energy. Journal of High Energy Physics, 2012, 2012, 1.	4.7	1
79	Energy spectrum of the electroweak Pomeron. Physical Review D, 2016, 94, .	4.7	1
80	A new parton model for the soft interactions at high energies. European Physical Journal C, 2019, 79, 1.	3.9	1
81	Nonlinear evolution in the re-summed next-to-leading order of perturbative QCD: Confronting the experimental data. Physical Review D, 2021, 104, .	4.7	1
82	Saturation 2005 (mini-review). AIP Conference Proceedings, 2005, , .	0.4	0
83	A QCD motivated model for soft processes. , 2009, , .		0
84	Energy evolution and the Bose-Einstein enhancement for double parton densities. Physical Review D, 2019, 99, .	4.7	0
85	HIGH ENERGY SCATTERING IN QCD: DIPOLE APPROACH WITH POMERON LOOPS. , 2006, , .		0