

# Eugene Levin

## List of Publications by Year in descending order

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85  
papers

2,215  
citations

331538

21  
h-index

265120

42  
g-index

86  
all docs

86  
docs citations

86  
times ranked

1867  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution to the evolution equation for high parton density QCD. Nuclear Physics B, 2000, 573, 833-852.	0.9	226
2	New scaling in high energy DIS. Nuclear Physics A, 2001, 691, 779-790.	0.6	128
3	Gluon saturation and inclusive hadron production at LHC. Physical Review D, 2010, 82, .	1.6	87
4	Nonlinear evolution and saturation for heavy nuclei in DIS. Nuclear Physics A, 2001, 693, 787-798.	0.6	86
5	Solutions to the Gribov-Levin-Ryskin equation in the nonperturbative region. Nuclear Physics B, 1992, 387, 617-637.	0.9	83
6	Towards a symmetric approach to high energy evolution: Generating functional with pomeron loops. Nuclear Physics A, 2005, 763, 172-196.	0.6	83
7	Towards a new global QCD analysis: low x DIS data from non-linear evolution. European Physical Journal C, 2003, 27, 411-425.	1.4	82
8	A linear evolution for non-linear dynamics and correlations in realistic nuclei. Nuclear Physics A, 2004, 730, 191-211.	0.6	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.	1.5	63
10	A QCD motivated model for soft interactions at high energies. European Physical Journal C, 2008, 57, 689-709.	1.4	63
11	QCD instantons and the soft pomeron. Nuclear Physics A, 2001, 690, 621-646.	0.6	62
12	Hadron multiplicity in $p$ - $p$ and $p$ - $A$ collisions at LHC from the color glass condensate. Physical Review D, 2010, 82, .	1.6	60
13	Hadron multiplicity in $p$ - $p$ and $p$ - $A$ collisions at the LHC. Physical Review D, 2011, 83, .	1.6	60
14	Scale anomaly and "soft" pomeron in QCD. Nuclear Physics B, 2000, 578, 351-363.	0.9	52
15	Towards a new global QCD analysis: solution to the Balitsky-Kovchegov nonlinear equation at arbitrary impact parameter. Nuclear Physics A, 2004, 742, 55-79.	0.6	45
16	Diffraction dissociation and saturation scale from non-linear evolution in high energy DIS. European Physical Journal C, 2002, 22, 647-654.	1.4	31
17	QCD saturation in the semi-classical approach. Nuclear Physics A, 2003, 727, 139-178.	0.6	28
18	N=4 SYM and QCD motivated approach to soft interactions at high energies. European Physical Journal C, 2011, 71, 1.	1.4	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.	1.4	26
20	Deep inelastic scattering as a probe of entanglement: Confronting experimental data. Physical Review D, 2021, 104, .	1.6	24
21	Soft interaction model and the LHC data. Physical Review D, 2012, 85, .	1.6	22
22	Survival probability for exclusive central diffractive production of colorless states at the LHC. European Physical Journal C, 2006, 47, 655-669.	1.4	21
23	Dipole-dipole scattering in CGC/saturation approach at high energy: summing Pomeron loops. Journal of High Energy Physics, 2013, 2013, 1.	1.6	18
24	QCD saturation and photoproduction on proton and nuclei targets. Physical Review D, 2003, 68, .	1.6	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, .	1.6	17
26	CGC/saturation approach: Secondary Reggeons and $\tilde{\kappa}$ dependence on energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 472-476.	1.5	17
27	High energy QCD: Multiplicity distribution and entanglement entropy. Physical Review D, 2020, 102, .	1.6	17
28	Anomalous dimensions of high-twist operators in QCD at $N_f = 1$ and large $Q^2$ . Nuclear Physics B, 1994, 419, 39-58.	0.9	16
29	Survival probability of large rapidity gaps in the QCD and $N=4$ SYM motivated model. European Physical Journal C, 2011, 71, 1.	1.4	14
30	Non-linear equation: Energy conservation and impact parameter dependence. Nuclear Physics A, 2011, 849, 98-119.	0.6	14
31	CGC/saturation approach for soft interactions at high energy: a two channel model. European Physical Journal C, 2015, 75, 1.	1.4	14
32	$\psi(2S)$ production in hadron scattering: three-pomeron contribution. European Physical Journal C, 2019, 79, 1.	1.4	14
33	Total $\gamma^* p$ cross section. European Physical Journal C, 1999, 10, 689-696.	1.4	13
34	Survival probabilities for high mass diffraction. European Physical Journal C, 2007, 52, 295.	1.4	13
35	BFKL Pomeron with massive gluons. Physical Review D, 2014, 89, .	1.6	13
36	A model for strong interactions at high energy based on the CGC/saturation approach. European Physical Journal C, 2015, 75, 1.	1.4	13

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37	CGC/saturation approach: A new impact-parameter dependent model. Nuclear Physics A, 2016, 948, 1-18.	0.6	13
38	Recent experimental data and the size of the quark in the constituent quark model. European Physical Journal C, 2002, 25, 277-286.	1.4	12
39	Perturbative QCD and beyond: Azimuthal angle correlations in deuteron-deuteron scattering from Bose-Einstein correlations. Physical Review D, 2017, 95, .	1.6	12
40	QCD saturation and $\gamma^* - \gamma^*$ scattering. European Physical Journal C, 2003, 28, 483-493.	1.4	11
41	Unitarity bound for gluon shadowing. Physical Review C, 2009, 79, .	1.1	11
42	CGC/saturation approach for soft interactions at high energy: long range rapidity correlations. European Physical Journal C, 2015, 75, 1.	1.4	11
43	CGC/saturation approach for high energy soft interactions: $\langle \mathbb{S} \rangle$ proton-proton collisions. Physical Review D, 2016, 93, .	1.6	11
44	CGC/saturation approach for high energy soft interactions: $\tilde{\mathbb{S}}$ Pomeron structure and $v_n$ in hadron and nucleus collisions from Bose-Einstein correlations. European Physical Journal C, 2016, 76, 1.	1.4	11
45	CGC/saturation approach for soft interactions at high energy: survival probability of central exclusive production. European Physical Journal C, 2016, 76, 1.	1.4	11
46	The components of the $\gamma^* \gamma^*$ cross section. European Physical Journal C, 2000, 14, 511-523.	1.4	10
47	BFKL Pomeron: modeling confinement. Journal of High Energy Physics, 2013, 2013, 1.	1.6	10
48	High energy amplitude as an admixture of $\tilde{\mathbb{S}}$ and $\tilde{\mathbb{H}}$ Pomerons. Nuclear Physics A, 2004, 732, 73-105.	0.6	9
49	Semiclassical solution to the BFKL equation with massive gluons. European Physical Journal C, 2015, 75, 1.	1.4	8
50	Thermal radiation and inclusive production in the CGC/saturation approach at high energies. European Physical Journal C, 2019, 79, 1.	1.4	8
51	Proton-proton interaction in constituent quarks model at LHC energies. European Physical Journal C, 2007, 51, 659-676.	1.4	7
52	Large behavior in the CGC/saturation approach: BFKL equation with pion loops. Physical Review D, 2015, 91, .	1.6	7
53	Bose-Einstein correlations in perturbative QCD: $v_n$ dependence on multiplicity. Physical Review D, 2017, 96, .	1.6	7
54	A CGC/saturation approach for angular correlations in proton-proton scattering. European Physical Journal C, 2017, 77, 1.	1.4	7

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55	QCD odderon: Nonlinear evolution in the leading twist. Physical Review D, 2020, 101, .	1.6	7
56	Proton-air collisions in a model of soft interactions at high energies. Physical Review D, 2013, 88, .	1.6	6
57	Bose-Einstein correlations and $v_2$ and $v_2^{\sim 1}$ in hadron and nucleus collisions. Physical Review D, 2017, 95, .	1.6	6
58	Thermal radiation and inclusive production in the Kharzeev-Levin-Nardi model for ion-ion collisions. Physical Review D, 2019, 100, .	1.6	6
59	BFKL equation in the next-to-leading order: solution at large impact parameters. European Physical Journal C, 2019, 79, 1.	1.4	6
60	High energy QCD: multiplicity dependence of quarkonia production. European Physical Journal C, 2021, 81, 1.	1.4	6
61	Inclusive production in a model for soft interactions. Physical Review D, 2011, 84, .	1.6	5
62	Large impact parameter behavior in the CGC/saturation approach: A new nonlinear equation. Physical Review D, 2020, 101, .	1.6	5
63	High energy evolution for Gribov-Zwanziger confinement: Solution to the equation. Physical Review D, 2021, 103, .	1.6	5
64	Total. European Physical Journal C, 1999, 10, 689.	1.4	5
65	Diffraction production in a soft interaction model: Mass distributions. Physical Review D, 2013, 87, .	1.6	4
66	Multiplicity distribution of dipoles in QCD from the Le-Mueller-Munier equation. Physical Review D, 2021, 104, .	1.6	4
67	Gribov-Zwanziger confinement, high energy evolution, and large impact parameter behavior of the scattering amplitude. Physical Review D, 2021, 103, .	1.6	4
68	Two Parton Shower Background for $\tilde{A}$ Associate $\tilde{A}$ Higgs $\tilde{A}$ Production. European Physical Journal C, 2009, 61, 1-31.	1.4	3
69	BFKL equation with running QCD coupling and HERA data. Journal of High Energy Physics, 2014, 2014, 1.	1.6	3
70	Azimuthal angle correlations at large rapidities: revisiting density variation mechanism. European Physical Journal C, 2017, 77, 1.	1.4	3
71	Energy evolution of $f_{J/\psi}$ production in DIS on nuclei. Physical Review D, 2018, 98, .	1.6	3
72	Nuclei in the toy world: beyond the Pomeron in zero transverse dimensions. Journal of High Energy Physics, 2022, 2022, 1.	1.6	3

#	ARTICLE	IF	CITATIONS
73	The BFKL Pomeron calculus: Summing enhanced diagrams. Nuclear Physics A, 2012, 884-885, 51-83.	0.6	2
74	Long-range rapidity correlations in soft interactions at high energies. European Physical Journal C, 2013, 73, 1.	1.4	2
75	CGC/saturation approach: re-visiting the problem of odd harmonics in angular correlations. European Physical Journal C, 2018, 78, 1.	1.4	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.	1.4	2
77	New parton model for the soft interactions at high energies: The odderon. Physical Review D, 2020, 101, .	1.6	2
78	N=4 SYM model for soft interactions at high energy. Journal of High Energy Physics, 2012, 2012, 1.	1.6	1
79	Energy spectrum of the electroweak Pomeron. Physical Review D, 2016, 94, .	1.6	1
80	A new parton model for the soft interactions at high energies. European Physical Journal C, 2019, 79, 1.	1.4	1
81	Nonlinear evolution in the re-summed next-to-leading order of perturbative QCD: Confronting the experimental data. Physical Review D, 2021, 104, .	1.6	1
82	Saturation 2005 (mini-review). AIP Conference Proceedings, 2005, , .	0.3	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, .	1.6	0
85	HIGH ENERGY SCATTERING IN QCD: DIPOLE APPROACH WITH POMERON LOOPS. , 2006, , .		0