

# 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	Nuclei in the toy world: beyond the Pomeron in zero transverse dimensions. Journal of High Energy Physics, 2022, 2022, 1.	1.6	3
2	High energy QCD: multiplicity dependence of quarkonia production. European Physical Journal C, 2021, 81, 1.	1.4	6
3	High energy evolution for Gribov-Zwanziger confinement: Solution to the equation. Physical Review D, 2021, 103, .	1.6	5
4	Deep inelastic scattering as a probe of entanglement: Confronting experimental data. Physical Review D, 2021, 104, .	1.6	24
5	Multiplicity distribution of dipoles in QCD from the Le-Mueller-Munier equation. Physical Review D, 2021, 104, .	1.6	4
6	Gribov-Zwanziger confinement, high energy evolution, and large impact parameter behavior of the scattering amplitude. Physical Review D, 2021, 103, .	1.6	4
7	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
8	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
9	Large impact parameter behavior in the CGC/saturation approach: A new nonlinear equation. Physical Review D, 2020, 101, .	1.6	5
10	QCD odderon: Nonlinear evolution in the leading twist. Physical Review D, 2020, 101, .	1.6	7
11	New parton model for the soft interactions at high energies: The odderon. Physical Review D, 2020, 101, .	1.6	2
12	High energy QCD: Multiplicity distribution and entanglement entropy. Physical Review D, 2020, 102, .	1.6	17
13	Thermal radiation and inclusive production in the Kharzeev-Levin-Nardi model for ion-ion collisions. Physical Review D, 2019, 100, .	1.6	6
14	Energy evolution and the Bose-Einstein enhancement for double parton densities. Physical Review D, 2019, 99, .	1.6	0
15	BFKL equation in the next-to-leading order: solution at large impact parameters. European Physical Journal C, 2019, 79, 1.	1.4	6
16	A new parton model for the soft interactions at high energies. European Physical Journal C, 2019, 79, 1.	1.4	1
17	Thermal radiation and inclusive production in the CGC/saturation approach at high energies. European Physical Journal C, 2019, 79, 1.	1.4	8
18	$\psi$ production in hadron scattering: three-pomeron contribution. European Physical Journal C, 2019, 79, 1.	1.4	14

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19	CGC/saturation approach: Secondary Reggeons and $\text{Re} \int \text{Im} \langle \dots \rangle$ dependence on energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 472-476.	1.5	17
20	CGC/saturation approach: re-visiting the problem of odd harmonics in angular correlations. European Physical Journal C, 2018, 78, 1.	1.4	2
21	Energy evolution of $J/\psi$ production in DIS on nuclei. Physical Review D, 2018, 98, .	1.6	3
22	Perturbative QCD and beyond: Azimuthal angle correlations in deuteron-deuteron scattering from Bose-Einstein correlations. Physical Review D, 2017, 95, .	1.6	12
23	Bose-Einstein correlations in perturbative QCD: $v_n$ dependence on multiplicity. Physical Review D, 2017, 96, .	1.6	7
24	Bose-Einstein correlations and $v_2$ and $v_2^{\text{nd}}$ in hadron and nucleus collisions. Physical Review D, 2017, 95, .	1.6	6
25	A CGC/saturation approach for angular correlations in proton-proton scattering. European Physical Journal C, 2017, 77, 1.	1.4	7
26	Azimuthal angle correlations at large rapidities: revisiting density variation mechanism. European Physical Journal C, 2017, 77, 1.	1.4	3
27	Energy spectrum of the electroweak Pomeron. Physical Review D, 2016, 94, .	1.6	1
28	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
29	CGC/saturation approach: A new impact-parameter dependent model. Nuclear Physics A, 2016, 948, 1-18.	0.6	13
30	CGC/saturation approach for high energy soft interactions: $\langle v_n \rangle^2$ proton-proton collisions. Physical Review D, 2016, 93, .	1.6	11
31	CGC/saturation approach for high energy soft interactions: $\tilde{\text{soft}}^{\text{TM}}$ Pomeron structure and $v_n$ in hadron and nucleus collisions from Bose-Einstein correlations. European Physical Journal C, 2016, 76, 1.	1.4	11
32	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
33	CGC/saturation approach for soft interactions at high energy: long range rapidity correlations. European Physical Journal C, 2015, 75, 1.	1.4	11
34	Semiclassical solution to the BFKL equation with massive gluons. European Physical Journal C, 2015, 75, 1.	1.4	8
35	A model for strong interactions at high energy based on the CGC/saturation approach. European Physical Journal C, 2015, 75, 1.	1.4	13
36	Large behavior in the CGC/saturation approach: BFKL equation with pion loops. Physical Review D, 2015, 91, .	1.6	7

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37	CGC/saturation approach for soft interactions at high energy: a two channel model. European Physical Journal C, 2015, 75, 1.	1.4	14
38	BFKL Pomeron with massive gluons. Physical Review D, 2014, 89, .	1.6	13
39	BFKL equation with running QCD coupling and HERA data. Journal of High Energy Physics, 2014, 2014, 1.	1.6	3
40	BFKL Pomeron: modeling confinement. Journal of High Energy Physics, 2013, 2013, 1.	1.6	10
41	Long-range rapidity correlations in soft interactions at high energies. European Physical Journal C, 2013, 73, 1.	1.4	2
42	Dipole-dipole scattering in CGC/saturation approach at high energy: summing Pomeron loops. Journal of High Energy Physics, 2013, 2013, 1.	1.6	18
43	Diffraction production in a soft interaction model: Mass distributions. Physical Review D, 2013, 87, .	1.6	4
44	Proton-air collisions in a model of soft interactions at high energies. Physical Review D, 2013, 88, .	1.6	6
45	Soft interaction model and the LHC data. Physical Review D, 2012, 85, .	1.6	22
46	N=4 SYM model for soft interactions at high energy. Journal of High Energy Physics, 2012, 2012, 1.	1.6	1
47	The BFKL Pomeron calculus: Summing enhanced diagrams. Nuclear Physics A, 2012, 884-885, 51-83.	0.6	2
48	Inclusive production in a model for soft interactions. Physical Review D, 2011, 84, .	1.6	5
49	N=4 SYM and QCD motivated approach to soft interactions at high energies. European Physical Journal C, 2011, 71, 1.	1.4	27
50	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
51	Non-linear equation: Energy conservation and impact parameter dependence. Nuclear Physics A, 2011, 849, 98-119.	0.6	14
52	Gluon saturation and energy dependence of hadron multiplicity in $p$ - $p$ collisions at the LHC. Physical Review D, 2011, 83, .	1.6	60
53	Gluon saturation and inclusive hadron production at LHC. Physical Review D, 2010, 82, .	1.6	87
54	Hadron multiplicity in $p$ - $p$ collisions at LHC from the color glass condensate. Physical Review D, 2010, 82, .	1.6	60

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55	Unitarity bound for gluon shadowing. Physical Review C, 2009, 79, .	1.1	11
56	A QCD motivated model for soft processes. , 2009, , .		0
57	Two Parton Shower Background for Higgs Production. European Physical Journal C, 2009, 61, 1-31.	1.4	3
58	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
59	A QCD motivated model for soft interactions at high energies. European Physical Journal C, 2008, 57, 689-709.	1.4	63
60	Proton-proton interaction in constituent quarks model at LHC energies. European Physical Journal C, 2007, 51, 659-676.	1.4	7
61	Survival probabilities for high mass diffraction. European Physical Journal C, 2007, 52, 295.	1.4	13
62	Survival probability for exclusive central diffractive production of colorless states at the LHC. European Physical Journal C, 2006, 47, 655-669.	1.4	21
63	HIGH ENERGY SCATTERING IN QCD: DIPOLE APPROACH WITH POMERON LOOPS. , 2006, , .		0
64	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
65	Towards a symmetric approach to high energy evolution: Generating functional with pomeron loops. Nuclear Physics A, 2005, 763, 172-196.	0.6	83
66	Saturation 2005 (mini-review). AIP Conference Proceedings, 2005, , .	0.3	0
67	A linear evolution for non-linear dynamics and correlations in realistic nuclei. Nuclear Physics A, 2004, 730, 191-211.	0.6	77
68	High energy amplitude as an admixture of "soft" and "hard" Pomerons. Nuclear Physics A, 2004, 732, 73-105.	0.6	9
69	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
70	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
71	QCD saturation and $\gamma^* - \gamma^*$ scattering. European Physical Journal C, 2003, 28, 483-493.	1.4	11
72	QCD saturation in the semi-classical approach. Nuclear Physics A, 2003, 727, 139-178.	0.6	28

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73	QCD saturation and photoproduction on proton and nuclei targets. Physical Review D, 2003, 68, .	1.6	17
74	Diffraction dissociation and saturation scale from non-linear evolution in high energy DIS. European Physical Journal C, 2002, 22, 647-654.	1.4	31
75	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
76	QCD instantons and the soft pomeron. Nuclear Physics A, 2001, 690, 621-646.	0.6	62
77	New scaling in high energy DIS. Nuclear Physics A, 2001, 691, 779-790.	0.6	128
78	Nonlinear evolution and saturation for heavy nuclei in DIS. Nuclear Physics A, 2001, 693, 787-798.	0.6	86
79	The components of the $\gamma^* \gamma^*$ cross section. European Physical Journal C, 2000, 14, 511-523.	1.4	10
80	Scale anomaly and "soft" pomeron in QCD. Nuclear Physics B, 2000, 578, 351-363.	0.9	52
81	Solution to the evolution equation for high parton density QCD. Nuclear Physics B, 2000, 573, 833-852.	0.9	226
82	Total $\gamma^* p$ cross section. European Physical Journal C, 1999, 10, 689-696.	1.4	13
83	Total. European Physical Journal C, 1999, 10, 689.	1.4	5
84	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
85	Solutions to the Gribov-Levin-Ryskin equation in the nonperturbative region. Nuclear Physics B, 1992, 387, 617-637.	0.9	83