

S Bondarenko

List of Publications by Year in descending order

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78
papers

2,230
citations

394421

19
h-index

223800

46
g-index

81
all docs

81
docs citations

81
times ranked

5036
citing authors

#	ARTICLE	IF	CITATIONS
1	FCC-ee: The Lepton Collider. European Physical Journal: Special Topics, 2019, 228, 261-623.	2.6	424
2	FCC-hh: The Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 755-1107.	2.6	367
3	FCC Physics Opportunities. European Physical Journal C, 2019, 79, 1.	3.9	346
4	HE-LHC: The High-Energy Large Hadron Collider. European Physical Journal: Special Topics, 2019, 228, 1109-1382.	2.6	108
5	One-loop corrections to the Drell-Yan process in SANC: the charged current case. European Physical Journal C, 2006, 46, 407-412.	3.9	76
6	One-loop corrections to the Drell-Yan process in SANC. European Physical Journal C, 2008, 54, 451-460.	3.9	76
7	SANCscope v.1.00. Computer Physics Communications, 2006, 174, 481-517.	7.5	72
8	Precision studies of observables in $pp \rightarrow W \rightarrow l\bar{l} \gamma$ and $pp \rightarrow \gamma, Z \rightarrow l^+ l^-$ processes at the LHC. European Physical Journal C, 2017, 77, 1.	3.9	48
9	NLO EW and QCD proton-proton cross section calculations with mcsanc-v1.01. Computer Physics Communications, 2013, 184, 2343-2350.	7.5	45
10	Bethe-Salpeter approach with the separable interaction for the deuteron. Progress in Particle and Nuclear Physics, 2002, 48, 449-535.	14.4	42
11	SANC integrator in the progress: QCD and EW contributions. JETP Letters, 2012, 96, 285-289.	1.4	32
12	Exclusive Higgs boson production at the CERN LHC: Hard rescattering corrections. Physical Review D, 2006, 73, .	4.7	31
13	Standard SANC modules. Computer Physics Communications, 2010, 181, 305-312.	7.5	30
14	Bethe-Salpeter amplitudes and static properties of the deuteron. Physical Review C, 1996, 54, 986-1005.	2.9	28
15	A pomeron approach to hadron-nucleus and nucleus-nucleus soft interaction at high energy. Nuclear Physics A, 2001, 683, 649-691.	1.5	28
16	Exploiting the equivalence of reggeon field theory in zero transverse dimensions and reaction diffusion processes. European Physical Journal C, 2007, 50, 593-601.	3.9	24
17	Solving effective field theory of interacting QCD pomerons in the semiclassical approximation. Physical Review D, 2007, 75, .	4.7	23
18	Update of the MCSANC Monte Carlo integrator, v. 1.20. JETP Letters, 2016, 103, 131-136.	1.4	23

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19	Covariant Relativistic Separable Kernel Approach for Electrodisintegration of the Deuteron at High Momentum Transfer. Few-Body Systems, 2011, 49, 121-128.	1.5	20
20	Effective action for reggeized gluons, classical gluon field of relativistic color charge and color glass condensate approach. European Physical Journal C, 2017, 77, 1.	3.9	20
21	One-loop light-cone QCD, effective action for reggeized gluons and QCD RFT calculus. European Physical Journal C, 2017, 77, 1.	3.9	19
22	Boundary conditions in the QCD nucleus-nucleus scattering problem. Nuclear Physics A, 2008, 799, 151-166.	1.5	17
23	One-loop electroweak radiative corrections to polarized Bhabha scattering. Physical Review D, 2018, 98, .	4.7	15
24	Langevin equation in effective theory of interacting QCD pomerons in the limit of large. Nuclear Physics A, 2007, 792, 264-287.	1.5	14
25	SANCnews: Sector. Computer Physics Communications, 2007, 177, 738-756.	7.5	13
26	Relativistic multirank interaction kernels of the neutron-proton system. Nuclear Physics A, 2010, 832, 233-248.	1.5	13
27	Gluon density and F_2 functions from BK equation with impact parameter dependence. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 665, 72-78.	4.1	12
28	Electroweak radiative corrections to single top production. European Physical Journal C, 2011, 71, 1.	3.9	12
29	Elastic electron-deuteron scattering with modified dipole fit. Nuclear Physics, Section B, Proceedings Supplements, 2013, 245, 65-68.	0.4	12
30	Nucleon form factors for elastic electron-deuteron scattering at high momentum transfer. JETP Letters, 2014, 99, 613-618.	1.4	12
31	One-loop electroweak radiative corrections to polarized F_2 functions from BK equation with impact parameter dependence. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 665, 72-78.	4.1	12
32	Negative mass scenario and Schwarzschild spacetime in general relativity. Modern Physics Letters A, 2019, 34, 1950084.	1.2	12
33	Relativistic complex separable potential of the neutron-proton system. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 705, 264-268.	4.1	11
34	SANCnews: Sector 4f, charged current. European Physical Journal C, 2007, 51, 585-591.	3.9	10
35	NLO QCD corrections to Drell-Yan processes in the SANC framework. Physics of Atomic Nuclei, 2010, 73, 1761-1769.	0.4	10
36	Implementation of NLO QCD corrections into the framework of computer system SANC. Physics of Particles and Nuclei Letters, 2007, 4, 451-460.	0.4	9

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37	The dimensionally reduced description of the high energy scattering and the effective action for the reggeized gluons. European Physical Journal C, 2018, 78, 1.	3.9	9
38	One-loop electroweak radiative corrections to lepton pair production in polarized electron-positron collisions. Physical Review D, 2020, 102, .	4.7	8
39	Electroweak radiative corrections to the three channels of the process $f_1 f_2 \rightarrow 1H A \hat{+} 0$. European Physical Journal C, 2007, 52, 83-92.	3.9	7
40	On correlators of Reggeon fields and operators of Wilson lines in high energy QCD. International Journal of Modern Physics A, 2018, 33, 1850204.	1.5	7
41	Sensitivity of polarization observables in elastic ed scattering to the neutron form factors. Physics of Atomic Nuclei, 2000, 63, 774-781.	0.4	6
42	Covariant separable interaction for the neutron-proton system in $\hat{\alpha}$ partial-wave state. Nuclear Physics A, 2010, 848, 75-91.	1.5	6
43	Final state interaction effects in electrodisintegration of the deuteron in the Bethe-Salpeter approach. JETP Letters, 2012, 94, 738-743.	1.4	6
44	SANCnews: Top decays in QCD and EW sectors. Physics of Particles and Nuclei Letters, 2010, 7, 72-79.	0.4	5
45	Unifying approaches: derivation of Balitsky hierarchy from the Lipatov effective action. European Physical Journal C, 2021, 81, 1.	3.9	5
46	Electroweak effects in polarized muon-electron scattering. Physical Review D, 2022, 105, .	4.7	5
47	Dispersion representation for the nucleon-nucleon Tmatrix in the Bethe-Salpeter approach. Physical Review C, 2002, 65, .	2.9	4
48	SANC press release. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 502, 576-577.	1.6	4
49	BFKL ansatz for BK equation in conformal basis. Nuclear Physics A, 2008, 800, 63-84.	1.5	4
50	One-rank interaction kernel of the two-nucleon system for medium and high energies. JETP Letters, 2008, 87, 653-658.	1.4	4
51	Asymmetries in Processes of Electron-Positron Annihilation. Symmetry, 2020, 12, 1132.	2.2	4
52	Electroweak Effects in $e+e \hat{+} ZH$ Process. Symmetry, 2021, 13, 1256.	2.2	4
53	The relativistic impulse approximation for the exclusive electrodisintegration of the deuteron. Physics of Atomic Nuclei, 2007, 70, 2054-2065.	0.4	3
54	Electroweak radiative corrections to the three channels of the process $f_1 f_2 \rightarrow 1Z A \hat{+} 0$. European Physical Journal C, 2008, 54, 187-197.	3.9	3

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55	Standard SANC modules for NLO QCD radiative corrections to single top-quark production. Physics of Particles and Nuclei Letters, 2012, 9, 472-483.	0.4	3
56	SANC system and its applications for LHC. Journal of Physics: Conference Series, 2014, 523, 012043.	0.4	3
57	Relativistic Three-Nucleon Calculations within the Bethe-Salpeter Approach. EPJ Web of Conferences, 2016, 108, 02015.	0.3	3
58	Computer system SANC: its development and applications. Journal of Physics: Conference Series, 2016, 762, 012062.	0.4	3
59	SANC: the process $\hat{1}^3\hat{1}^3 \hat{a}^+ \hat{1}^--$. Physics of Particles and Nuclei Letters, 2017, 14, 811-816.	0.4	3
60	On the relativistic 3D 1-partial-wave contribution to the bound three-nucleon system. EPJ Web of Conferences, 2017, 138, 06003.	0.3	3
61	The Rank-One Separable Interaction Kernel for Nucleons with Scalar Propagator. Physics of Particles and Nuclei Letters, 2018, 15, 417-421.	0.4	3
62	On The Contribution of the P and D Partial-Wave States to the Binding Energy of the Triton in the Bethe-Salpeter-Faddeev Approach. Physics of Atomic Nuclei, 2019, 82, 44-49.	0.4	3
63	CPTM symmetry, closed time paths and cosmological constant problem in the formalism of extended manifold. European Physical Journal C, 2021, 81, 1.	3.9	3
64	Separable kernel of nucleon-nucleon interaction in the Bethe-Salpeter approach for $J = 0, 1$. Nuclear Physics A, 2003, 721, C413-C416.	1.5	2
65	Gluon density and functions from BK equation with local impact parameter dependence in DIS on nuclei. Nuclear Physics A, 2011, 853, 71-96.	1.5	2
66	Sensitivity of elastic electron scattering off the ^3He to the nucleon form factors. EPJ Web of Conferences, 2019, 204, 05009.	0.3	2
67	Relativistic rank-one separable kernel for helium-3 charge form factor. Nuclear Physics A, 2020, 1004, 122065.	1.5	2
68	High energy scattering in Einstein-Cartan gravity. European Physical Journal C, 2021, 81, 1.	3.9	2
69	High energy QCD Lipatov's effective action in Euclidean space. European Physical Journal C, 2020, 80, 1.	3.9	2
70	One-loop corrections to the Drell-Yan process in SANC: the charged current case. , 2006, 46, 407.		2
71	Relativistic complex separable potential for describing the neutron-proton system in $\langle \text{mml:math altimg="sr1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" \rangle$	0.4	1
72	Relativistic complex separable potential of the neutron-proton system. Nuclear Physics, Section B, Proceedings Supplements, 2013, 245, 291-297.	0.4	1

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73	Transport properties of a charged hot spot in an external electromagnetic field. Nuclear Physics A, 2016, 950, 129-162.	1.5	1
74	Relativistic two-body interaction current in the elastic eD scattering. Physics of Particles and Nuclei Letters, 2018, 15, 49-56.	0.4	1
75	Effective Action and Classical Solutions. Physics of Particles and Nuclei Letters, 2019, 16, 433-435.	0.4	1
76	Trinucleon form factors with relativistic multirank separable kernels. Nuclear Physics A, 2021, 1014, 122251.	1.5	1
77	On the Relativistic Separable Functions for the Breakup Reactions. EPJ Web of Conferences, 2018, 173, 02005.	0.3	0
78	NNLO classical solution for Lipatov's effective action for reggeized gluons. International Journal of Modern Physics A, 2019, 34, 1950111.	1.5	0