

# Alexey Nefediev

## List of Publications by Year in descending order

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Version: 2024-02-01

101  
papers

3,054  
citations

159525

30  
h-index

161767

54  
g-index

102  
all docs

102  
docs citations

102  
times ranked

1566  
citing authors

#	ARTICLE	IF	CITATIONS
1	The $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e24330" altimg="si34.svg" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle Y \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle Z \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ states: Experimental and theoretical status and perspectives. Physics Reports, 2020, 873, 1-154.	1.8	454
2	The Belle II Physics Book. Progress of Theoretical and Experimental Physics, 2019, 2019, .	1.8	384
3	The Belle II Physics Book. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	176
4	Reconciling the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3872 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (stretchy="false")	1.6	138
5	QCD string in light-light and heavy-light mesons. Physical Review D, 2001, 64, .	1.6	89
6	Three-body $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle D \langle \text{mml:mi} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mi} \rangle D \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{A}^- \langle \text{mml:mo} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mi} \rangle \tilde{\Gamma} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ dynamics for the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3872 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 517 Td (stretchy="false")	1.6	73
7	Two-photon decays of hadronic molecules. Physical Review D, 2007, 75, .	1.6	71
8	Nature of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3872 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 452 Td (stretchy="false")	1.6	64
9	Lineshapes for composite particles with unstable constituents. Physical Review D, 2010, 81, .	1.6	61
10	Interplay of quark and meson degrees of freedom in a near-threshold resonance. European Physical Journal A, 2010, 44, 93-103.	1.0	60
11	Remarks on the quantum numbers of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle X \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3872 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342 Td (stretchy="false")	1.6	54
12	Heavy-quark spin symmetry partners of the X(3872) revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 763, 20-28.	1.5	54
13	Interplay of quark and meson degrees of freedom in near-threshold states: A practical parametrization for line shapes. Physical Review D, 2016, 93, .	1.6	54
14	Coupled-channel approach to $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:msubsup} \rangle \langle \text{mml:mi} \rangle T \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle c \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle c \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle$ including three-body effects. Physical Review D, 2022, 105, .	1.6	54
15	Bilinear R-parity violation and small neutrino masses: a self-consistent framework. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 492, 81-90.	1.5	51
16	The radiative decays $\tilde{\Gamma} \hat{a}^{\dagger}   \hat{I}^3 a_0 \rangle / f_0$ in the molecular model for the scalar mesons. European Physical Journal A, 2005, 24, 437-443.	1.0	49
17	Coupled-channel interpretation of the LHCb Double- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle J \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \tilde{\Gamma} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Spectrum and Hints of a New State Near the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle J \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 3872 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 517 Td (stretchy="false")	2.9	49
18	Practical Parametrization for Line Shapes of Near-Threshold States. Physical Review Letters, 2015, 115, 202001.	2.9	48

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19	What can radiative decays of the X (3872) teach us about its nature?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 394-398. Line shapes of the $Z$ $b$ ( $10610$ ) and $Z$ $b$ ( $10650$ ) revisited. Journal of High Energy Physics, 2017, 2017, 1.	1.5	44
20	Insight into scalar mesons from their radiative decays. Physical Review C, 2006, 73, .	1.6	42
21	Spectra and decays of hybrid charmonia. Physical Review D, 2008, 77, .	1.1	41
22	Quark mass dependence of the $X$ ( $3872$ ) in the molecular model. Physics-Uspekhi, 2019, 62, 568-595.	1.6	41
23	Elementary Particle and High-Energy Physics, 2013, 726, 537-543.	0.8	41
24	X( $3872$ ) in the molecular model. Physics-Uspekhi, 2019, 62, 568-595.	0.8	41
25	Deciphering the mechanism of near-threshold $J/\psi$ photoproduction. European Physical Journal C, 2020, 80, 1.	1.4	39
26	DECONFINEMENT AND QUARK-GLUON PLASMA. International Journal of Modern Physics E, 2009, 18, 549-599.	0.4	37
27	Comment on "Possibility of Deeply Bound Hadronic Molecules from Single Pion Exchange". Physical Review Letters, 2010, 105, 019101.	2.9	37
28	Remarks on study of $X$ ( $3872$ ) in the molecular model. Physical Review D, 2015, 91, .	1.6	33
29	Spin partners of the $Z$ $b$ ( $10610$ ) and $Z$ $b$ ( $10650$ ) revisited. Journal of High Energy Physics, 2017, 2017, 1.	1.6	32
30	Confinement and parity doubling in heavy-light mesons. Physical Review D, 2005, 72, .	1.6	32
31	Spin-dependent interactions in quarkonia. Physical Review D, 2008, 78, .	1.6	28
32	Chiral symmetry breaking solutions for QCD in the truncated Coulomb gauge. Physical Review D, 2003, 68, .	1.6	27
33	Chiral symmetry restoration in excited hadrons, quantum fluctuations, and quasiclassics. Physical Review D, 2005, 72, .	1.6	25
34	Chiral symmetry and the string description of excited hadrons. Physical Review D, 2007, 76, .	1.6	25
35	Binding energy of the $X$ ( $3872$ ) in the molecular model. Physical Review D, 2015, 91, .	1.6	25
36	Binding energy of the $X$ ( $3872$ ) in the molecular model. Physical Review D, 2015, 91, .	1.6	25

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37	Mesonic states and vacuum replicas in potential quark models for QCD. Physical Review D, 2004, 70, .	1.6	23
38	Is the existence of a $\tilde{\chi}^0$ state plausible?. Science Bulletin, 2021, 66, 2462-2470.	1.3	13
39	Effective range expansion for narrow near-threshold resonances. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 833, 137290.	1.5	23
40	Exclusive open-charm near-threshold cross sections in a coupled-channel approach. JETP Letters, 2017, 105, 1-7.	0.4	20
41	Spin partners from the line shapes of the $Z^0$ $\rightarrow$ $b\bar{c}$ decays. Physical Review D, 2006, 73, .	1.6	20
42	Chiral restoration in excited nucleons versus. Nuclear Physics A, 2008, 807, 38-47.	0.6	19
43	Hadron physics potential of future high-luminosity B-factories at the $\sqrt{s}(5S)$ and above. European Physical Journal A, 2013, 49, 1.	1.0	19
44	Goldstone bosons decoupling from high-lying hadrons. Physical Review D, 2006, 73, .	1.6	17
45	Directly excited $D$ and $B$ mesons in the approach of the QCD string with quarks at the ends. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 530, 117-122.	1.5	16
46	Potential regime for heavy quarks dynamics and Lorentz nature of confinement. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 414, 149-156.	1.5	15
47	Orbitally excited $D$ and $B$ mesons in the approach of the QCD string with quarks at the ends. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 530, 117-122.	1.6	15
48	Hamiltonian approach to the bound-state problem in QCD2. Physics of Atomic Nuclei, 2000, 63, 1623-1628.	0.1	14
49	Remarks on the heavy-quark flavour symmetry for doubly heavy hadronic molecules. European Physical Journal C, 2019, 79, 1.	1.4	13
50	Field theory description of vacuum replicas. Physical Review D, 2003, 67, .	1.6	11
51	Chiral symmetry and excited baryons. JETP Letters, 2008, 87, 271-275.	0.4	11
52	One-pion exchange in the $X(3872)$ revisited. JETP Letters, 2013, 97, 70-75.	0.4	11
53	Comment on the proper QCD string dynamics in a heavy-light system. JETP Letters, 2003, 78, 349-351.	0.4	10

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55	Quark and meson degrees of freedom in the X(3872) charmonium. Physics of Atomic Nuclei, 2010, 73, 1592-1611.	0.1	10
56	Remarks on meson loop effects on quark models. European Physical Journal A, 2016, 52, 1.	1.0	10
57	Chiral symmetry, the angular content of the vector current in QED and QCD, and the holographic description of hadrons. Physical Review D, 2009, 80, .	1.6	9
58	Chiral symmetry breaking and the Lorentz nature of confinement. Physical Review D, 2007, 76, .	1.6	7
59	Can X(3915) be the tensor partner of the X(3872)? Journal of High Energy Physics, 2017, 2017, 1. Insights into	1.6	7
60	$Z_b$ 10610 $T_{jETQq}$ 0 0 rgBT /Overlock 10 Tf 50 547 Td	1.6	7
61	1+1 string with quarks at the ends revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 399, 274-280.	1.5	6
62	QCD string and the Lorentz nature of confinement. JETP Letters, 2005, 82, 557-561.	0.4	6
63	Microscopic derivation of the pion coupling to heavy-light mesons. Physical Review D, 2007, 75, .	1.6	6
64	Dynamical suppression of the spin-orbit interaction in hadrons. JETP Letters, 2008, 88, 151-156.	0.4	6
65	Molecular partners of the X(3872) from heavy-quark spin symmetry: a fresh look. EPJ Web of Conferences, 2017, 137, 06002.	0.1	6
66	Vacuum replicas in two-dimensional QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 573, 131-137.	1.5	5
67	Collision damping in the $^3\text{He}\alpha^+\text{d}$ reaction near the threshold. Physical Review C, 2003, 67, .	1.1	5
68	QCD string in excited heavy-light mesons and heavy-quark hybrids. Physical Review D, 2016, 94, .	1.6	5
69	String junction as a baryonic constituent. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 367, 265-269.	1.5	4
70	Strong decays and Adler selfconsistency condition in two-dimensional QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 487, 371-378.	1.5	4
71	Comment on "Once more about the $K\bar{K}^*$ molecule approach to the light scalars". Physical Review D, 2008, 78, .	1.6	4
72	Gluonic correlation length from spin-dependent potentials. JETP Letters, 2009, 88, 558-563.	0.4	4

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73	Dark quark domains. JETP Letters, 2010, 92, 721-725.	0.4	4
74	A practical parametrisation of line shapes of near-threshold resonances. Journal of Physics: Conference Series, 2016, 675, 022016.	0.3	4
75	Spectrum of Heavy-Light Mesons in the QCD String Picture. Physics of Atomic Nuclei, 2005, 68, 650.	0.1	3
76	Real-time approach to quark confined systems at finite temperatures. JETP Letters, 2009, 90, 417-422.	0.4	3
77	Hybrid charmonium. Physics of Atomic Nuclei, 2009, 72, 333-338.	0.1	2
78	Phenomenology of near-threshold resonances. Physics of Atomic Nuclei, 2017, 80, 1006-1035.	0.1	2
79	Phenomenology of near-threshold states: a practical parametrisation for the line shapes. EPJ Web of Conferences, 2017, 137, 06020.	0.1	2
80	Nonperturbative dynamics in the chromomagnetic QCD vacuum above the deconfinement temperature. Physics of Atomic Nuclei, 2009, 72, 355-360.	0.1	1
81	X(3872) as the 1 D 2 charmonium. Physics of Atomic Nuclei, 2013, 76, 1533-1540.	0.1	1
82	10.1007/s11450-008-1018-7. , 2010, 71, 171.		1
83	QCD string in the Schwinger-Dyson approach to heavy-light quarkonia. Physics of Atomic Nuclei, 2005, 68, 530-535.	0.1	0
84	Mesonic states in the generalised Nambu-Jona-Lasinio theories. AIP Conference Proceedings, 2005, , .	0.3	0
85	Parity doublers in chiral potential quark models. AIP Conference Proceedings, 2007, , .	0.3	0
86	Are light hadronic coherent-like states possible?. AIP Conference Proceedings, 2007, , .	0.3	0
87	On the Lorentz nature of confinement in heavy-light quarkonia. Physics of Atomic Nuclei, 2007, 70, 1543-1548.	0.1	0
88	X(3872): charmonium or molecule?. , 2011, , .		0
89	QCD relics in the present-day Universe?. , 2011, , .		0
90	Non-perturbative pion dynamics for the X(3872). EPJ Web of Conferences, 2014, 81, 05005.	0.1	0

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91	Light-quark mass behaviour of the X(3872) as a molecular state. EPJ Web of Conferences, 2016, 113, 05015.	0.1	0
92	Chiral extrapolation of the X(3872) binding energy. Journal of Physics: Conference Series, 2016, 675, 022017.	0.3	0
93	Energy scan of cross sections for $e^+e^-$ annihilation into quarkonia and light hadrons in the Belle experiment. Physics of Particles and Nuclei, 2017, 48, 857-858.	0.2	0
94	Parametrizing the line shapes of near-threshold resonances. Physics of Particles and Nuclei, 2017, 48, 849-850.	0.2	0
95	Exotic hadrons in the decays of vector bottomonia. Journal of Physics: Conference Series, 2019, 1390, 012036.	0.3	0
96	10.1007/s11450-008-2013-8. , 2010, 71, 321.		0
97	Hybrid charmonia. , 2012, , .		0
98	Chiral symmetry in excited baryons. , 2012, , .		0
99	Heavy-quark spin-symmetry partners of hadronic molecules. , 2018, , .		0
100	Exotic Hadrons with Heavy Quarks. Physics of Atomic Nuclei, 2020, 83, 975-979.	0.1	0
101	Double- $J/\psi$ system in the spotlight of recent LHCb data. SciPost Physics Proceedings, 2022, , .	0.2	0