

Nikolay Gromov

List of Publications by Year in descending order

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74
papers

4,541
citations

87888

38
h-index

98798

67
g-index

74
all docs

74
docs citations

74
times ranked

801
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of AdS/CFT Integrability: An Overview. <i>Letters in Mathematical Physics</i> , 2012, 99, 3-32.	1.1	908
2	Exact Spectrum of Anomalous Dimensions of Planar $N=4$ Supersymmetric Yang-Mills Theory. <i>Physical Review Letters</i> , 2009, 103, 131601.	7.8	267
3	Exact Spectrum of Anomalous Dimensions of Planar $N=4$ Supersymmetric Yang-Mills Theory: TBA and excited states. <i>Letters in Mathematical Physics</i> , 2010, 91, 265-287.	1.1	213
4	Quantum Spectral Curve for Planar $N=4$ Super-Yang-Mills Theory. <i>Physical Review Letters</i> , 2014, 112, 011602.	7.8	205
5	The all loop AdS_4/CFT_3 Bethe ansatz. <i>Journal of High Energy Physics</i> , 2009, 2009, 016-016.	4.7	182
6	Tailoring three-point functions and integrability. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	117
7	Quantum spectral curve for arbitrary state/operator in AdS_5/CFT_4 . <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	117
8	Exact Spectrum of Planar $N=4$ Supersymmetric Yang-Mills Theory: Konishi Dimension at Any Coupling. <i>Physical Review Letters</i> , 2010, 104, 211601.	7.8	116
9	Quantum weights of dyons and of instantons with nontrivial holonomy. <i>Physical Review D</i> , 2004, 70, .	4.7	98
10	The AdS_4/CFT_3 algebraic curve. <i>Journal of High Energy Physics</i> , 2009, 2009, 040-040.	4.7	76
11	Tailoring three-point functions and integrability II. Weak/strong coupling match. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	72
12	Integrability of conformal fishnet theory. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	71
13	Complete 1-loop test of AdS/CFT. <i>Journal of High Energy Physics</i> , 2008, 2008, 046-046.	4.7	70
14	Analytic solution of Bremsstrahlung TBA. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	69
15	Strongly $N=4$ Deformed Supersymmetric Yang-Mills Theory as an Integrable Conformal Field Theory. <i>Physical Review Letters</i> , 2014, 113, 021601.	7.8	69
16	Quantum Spectral Curve of the $N=6$ Supersymmetric Chern-Simons Theory. <i>Physical Review Letters</i> , 2014, 113, 021601.	7.8	68
17	Pomeron Eigenvalue at Three Loops in $N=4$ Supersymmetric Yang-Mills Theory. <i>Physical Review Letters</i> , 2015, 115, 251601.	7.8	64
18	The superstring quantum spectrum from the algebraic curve. <i>Nuclear Physics B</i> , 2008, 789, 175-208.	2.5	62

#	ARTICLE	IF	CITATIONS
19	Exact Slope and Interpolating Functions in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi mathvariant="script"} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 6 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Supersymmetric Chern-Simons Theory. <i>Physical Review Letters</i> , 2014, 113, 121601.	7.8	60
20	Y-system and quasi-classical strings. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	57
21	Quantum folded string and integrability: from finite size effects to Konishi dimension. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	56
22	Finite volume spectrum of 2D field theories from Hirota dynamics. <i>Journal of High Energy Physics</i> , 2009, 2009, 060-060.	4.7	54
23	Solving the AdS/CFT Y-system. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	50
24	New construction of eigenstates and separation of variables for SU(N) quantum spin chains. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	50
25	Tailoring three-point functions and integrability III. Classical tunneling. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	49
26	Quantum Spectral Curve and the Numerical Solution of the Spectral Problem in AdS ₅ /CF T ₄ . <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	49
27	Quantum spectral curve and structure constants in $\mathcal{N}=4$ SYM: cusps in the ladder limit. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	49
28	Y-system, TBA and Quasi-Classical Strings in AdS ₄ $\tilde{\text{A}}$ – CP ³ . <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	46
29	Constructing the AdS/CFT dressing factor. <i>Nuclear Physics B</i> , 2008, 790, 72-88.	2.5	45
30	Efficient precision quantization in AdS/CFT. <i>Journal of High Energy Physics</i> , 2008, 2008, 013-013.	4.7	45
31	Comment on the scaling function in $\text{AdS}_{4-\hat{a},\hat{a},\hat{a},\hat{a}}^{\text{TM}}$. <i>Journal of High Energy Physics</i> , 2009, 2009, 083-083.	4.7	44
32	PSU(2, 2 4) character of quasiclassical AdS/CFT. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	44
33	Wronskian solution for AdS/CFT Y-system. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	42
34	Analytic solution of Bremsstrahlung TBA II: turning on the sphere angle. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	42
35	Quantum spectral curve at work: from small spin to strong coupling in $\mathcal{N}=4$ SYM. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	42
36	Quark-anti-quark potential in $\mathcal{N}=4$ SYM. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	41

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37	Exact correlation functions in conformal fishnet theory. Journal of High Energy Physics, 2019, 2019, 1.	4.7	40
38	Quantum wrapped giant magnon. Physical Review D, 2008, 78, .	4.7	39
39	QCD pomeron from AdS/CFT Quantum Spectral Curve. Journal of High Energy Physics, 2015, 2015, 1.	4.7	38
40	Generalized scaling function at strong coupling. Journal of High Energy Physics, 2008, 2008, 085-085.	4.7	36
41	Strings as multi-particle states of quantum sigma-models. Nuclear Physics B, 2007, 764, 15-61.	2.5	35
42	The full Quantum Spectral Curve for AdS4/CFT3. Journal of High Energy Physics, 2017, 2017, 1.	4.7	35
43	Double scaling and finite size corrections in spin chain. Nuclear Physics B, 2006, 736, 199-224.	2.5	30
44	Deeper look into short strings. Journal of High Energy Physics, 2012, 2012, 1.	4.7	30
45	Derivation of the Holographic Dual of a Planar Conformal Field Theory in 4D. Physical Review Letters, 2019, 123, 081602.	7.8	30
46	Tailoring three-point functions and integrability IV. \hat{r} -morphism. Journal of High Energy Physics, 2014, 2014, 1.	4.7	28
47	Quantum Spectral Curve for a cusped Wilson line in $N = 4$ SYM. Journal of High Energy Physics, 2016, 2016, 1-41.	4.7	28
48	Separation of variables and scalar products at any rank. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
49	Integrability and conformal bootstrap: One dimensional defect conformal field theory. Physical Review D, 2022, 105, .	4.7	28
50	Asymptotic Bethe ansatz from string sigma model on. Nuclear Physics B, 2007, 780, 143-160.	2.5	26
51	Excited states of one-dimensional defect CFTs from the quantum spectral curve. Journal of High Energy Physics, 2020, 2020, 1.	4.7	26
52	Quantum Integrability for Three-Point Functions of Maximally Supersymmetric Yang-Mills Theory. Physical Review Letters, 2013, 111, 211601.	7.8	25
53	SU(N)caloron measure and its relation to instantons. Physical Review D, 2005, 72, .	4.7	23
54	Quantum stability for the Heisenberg ferromagnet. New Journal of Physics, 2008, 10, 103023.	2.9	23

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55	BFKL spectrum of $\mathcal{N} = 4$: non-zero conformal spin. Journal of High Energy Physics, 2018, 2018, 1.	4.7	23
56	Quantum fishchain in AdS5. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23
57	Dual separated variables and scalar products. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135494.	4.1	21
58	Bootstrability in defect CFT: integrated correlators and sharper bounds. Journal of High Energy Physics, 2022, 2022, .	4.7	21
59	Separation of variables in AdS/CFT: functional approach for the fishnet CFT. Journal of High Energy Physics, 2021, 2021, 1.	4.7	20
60	On the exact interpolating function in ABJ theory. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
61	\mathfrak{Y} -system and $\hat{\mathfrak{N}}=4$ super-Yang-Mills. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 015402.	2.1	18
62	Review of AdS/CFT Integrability, Chapter III.7: Hirota Dynamics for Quantum Integrability. Letters in Mathematical Physics, 2012, 99, 321-347.	1.1	18
63	The holographic dual of strongly $\hat{\mathfrak{N}}=4$ SYM theory: derivation, generalization, integrability and discrete reparametrization symmetry. Journal of High Energy Physics, 2020, 2020, 1.	4.7	18
64	Colour-twist operators. Part I. Spectrum and wave functions. Journal of High Energy Physics, 2020, 2020, 1.	4.7	16
65	Quantum Spectral Curve for AdS3/CFT2: a proposal. Journal of High Energy Physics, 2021, 2021, 1.	4.7	16
66	Integrability in AdS/CFT correspondence: quasi-classical analysis. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 254004.	2.1	15
67	New compact construction of eigenstates for supersymmetric spin chains. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
68	Determinant form of correlators in high rank integrable spin chains via separation of variables. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
69	On the derivation of the exact slope function. Journal of High Energy Physics, 2013, 2013, 1.	4.7	11
70	Open fishchain in $\mathcal{N} = 4$ Supersymmetric Yang-Mills Theory. Journal of High Energy Physics, 2021, 2021, 1.	4.7	9
71	Fermionic determinant for $SU(N)$ caloron with nontrivial holonomy. Physical Review D, 2006, 73, .	4.7	5
72	Fermionic determinant for dyons and instantons with nontrivial holonomy. Physical Review D, 2005, 71, .	4.7	3

#	ARTICLE	IF	CITATIONS
73	<i>$\mathcal{N}=4$ SYM Quantum Spectral Curve in BFKL Regime.</i> , 2021, , 335-367.		2
74	Spectrum of $N=4$ supersymmetric Yang-Mills theory and the quantum spectral curve. , 2019, , 400-448.		0