

Jean Avan

List of Publications by Year in descending order

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1,141
citations

448610

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31
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86
all docs

86
docs citations

86
times ranked

311
citing authors

#	ARTICLE	IF	CITATIONS
1	Algebraic structure of classical integrability for complex sine-Gordon. SciPost Physics, 2020, 8, .	1.5	1
2	From Hamiltonian to zero curvature formulation for classical integrable boundary conditions. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 30LT01.	0.7	12
3	Deformed Virasoro Algebras from Elliptic Quantum Algebras. Communications in Mathematical Physics, 2017, 354, 753-773.	1.0	5
4	On the origin of dual Lax pairs and their $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml1" display="inline" overflow="scroll" altimg="si1.gif" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -matrix structure. Journal of Geometry and Physics, 2017, 120, 106-128.	0.7	8
5	Dynamical centers for the elliptic quantum algebra $\text{ewcommand}\{\text{elpb}\}[1]\{\{\{\mathcal{B}\}_{q,\lambda}(\widehat{\mathfrak{gl}}_{\#1})_c\}\}$ $\text{ewcommand}\{e\}\{\{m e\}\}$ $\text{elpb}\{2\}$. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 394002.	0.7	2
6	Scattering in Twisted Yangians. Journal of Physics: Conference Series, 2016, 670, 012007.	0.3	0
7	Lagrangian and Hamiltonian structures in an integrable hierarchy and space-time duality. Nuclear Physics B, 2016, 902, 415-439.	0.9	25
8	Quantization and Dynamisation of Trace-Poisson Brackets. Communications in Mathematical Physics, 2016, 341, 263-287.	1.0	4
9	Modified algebraic Bethe ansatz for XXZ chain on the segment $\hat{\mathfrak{sl}}_3$ Proof. Nuclear Physics B, 2015, 899, 229-246.	0.9	49
10	On extreme events for non-spatial and spatial branching Brownian motions. Physica D: Nonlinear Phenomena, 2015, 298-299, 13-20.	1.3	2
11	Did the ever dead outnumber the living and when? A birth-and-death approach. Physica A: Statistical Mechanics and Its Applications, 2015, 419, 277-292.	1.2	3
12	Scattering matrices in the $\mathfrak{sl}(\infty)$ twisted Yangian. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P02007.	0.9	2
13	The $\mathfrak{sl}(\mathbb{N})$ twisted Yangian: bulk-boundary scattering and defects. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P05024.	0.9	1
14	Temperley-Lieb R-matrices from generalized Hadamard matrices. Theoretical and Mathematical Physics(Russian Federation), 2014, 178, 223-238.	0.3	7
15	Reflection matrices from Hadamard-type Temperley-Lieb R-matrices. Theoretical and Mathematical Physics(Russian Federation), 2014, 179, 387-394.	0.3	1
16	The sine-Gordon model in the presence of defects. Journal of Physics: Conference Series, 2013, 411, 012003.	0.3	2
17	The sine-Gordon model with integrable defects revisited. Journal of High Energy Physics, 2012, 2012, 1.	1.6	24
18	A New Dynamical Reflection Algebra and Related Quantum Integrable Systems. Letters in Mathematical Physics, 2012, 101, 85-101.	0.5	4

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19	Liouville integrable defects: the non-linear Schrödinger paradigm. Journal of High Energy Physics, 2012, 2012, 1.	1.6	26
20	Classification of Non-Affine Non-Hecke Dynamical R-Matrices. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2012, , .	0.5	1
21	Rational Calogero-Moser Model: Explicit Form and r-Matrix of the Second Poisson Structure. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2012, , .	0.5	2
22	Reflection k-matrices related to Temperley-Lieb R-matrices. Theoretical and Mathematical Physics(Russian Federation), 2011, 169, 1530-1538.	0.3	13
23	Integrable quantum spin chains and their classical continuous counterparts. , 2011, , .		0
24	Poisson structures of Calogero-Moser and Ruijsenaars-Schneider models. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 185201.	0.7	8
25	Systematic classical continuum limits of integrable spin chains and emerging novel dualities. Nuclear Physics B, 2010, 840, 469-490.	0.9	12
26	Boundary Lax pairs from non-ultra-local Poisson algebras. Journal of Mathematical Physics, 2009, 50, 113512.	0.5	6
27	On Calogero-Francoise-type Lax matrices and their dynamical r-matrices. Journal of Mathematical Physics, 2009, 50, 072701.	0.5	0
28	Boundary Lax pairs for the Toda field theories. Nuclear Physics B, 2009, 821, 481-505.	0.9	14
29	Integrable boundary conditions and modified Lax equations. Nuclear Physics B, 2008, 800, 591-612.	0.9	15
30	The semi-dynamical reflection equation: solutions and structure matrices. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 194001.	0.7	1
31	Parametrization of semi-dynamical quantum reflection algebra. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 2709-2731.	0.7	6
32	Sugawara and Vertex Operator Constructions for Deformed Virasoro Algebras. Annales Henri Poincare, 2006, 7, 1327-1349.	0.8	0
33	Classification of the Solutions of Constant Rational Semi-Dynamical Reflection Equations. Annales Henri Poincare, 2006, 7, 1463-1476.	0.8	2
34	Commuting quantum traces for quadratic algebras. Journal of Mathematical Physics, 2005, 46, 083516.	0.5	8
35	Spin chains from dynamical quadratic algebras. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P03005.	0.9	5
36	Commuting quantum traces: the case of reflection algebras. Journal of Physics A, 2004, 37, 1603-1615.	1.6	5

#	ARTICLE	IF	CITATIONS
37	Construction of Dynamical Quadratic Algebras. Letters in Mathematical Physics, 2004, 67, 1-11.	0.5	12
38	On $osp(M 2n)$ Integrable Open Spin Chains. European Physical Journal D, 2004, 54, 1153-1158.	0.4	1
39	General boundary conditions for the and open spin chains. Journal of Statistical Mechanics: Theory and Experiment, 2004, 2004, P08005.	0.9	45
40	Bethe ansatz equations and exact S matrices for the $osp(M 2n)$ open super-spin chain. Nuclear Physics B, 2004, 687, 257-278.	0.9	26
41	Classification of reflection matrices related to \hat{A} (super-)Yangians and application to open spin chain models. Nuclear Physics B, 2003, 668, 469-505.	0.9	30
42	R-matrix presentation for super-Yangians $Y(osp(m 2n))$. Journal of Mathematical Physics, 2003, 44, 302-308.	0.5	38
43	Nontrivial generalizations of the Schwinger pair production result. Physical Review D, 2003, 67, .	1.6	13
44	Structures in BCN Ruijsenaars's Schneider models. Journal of Mathematical Physics, 2002, 43, 403-416.	0.5	2
45	Yangian and Quantum Universal Solutions of Gervais-Neveu-Felder Equations. Communications in Mathematical Physics, 2002, 226, 183-203.	1.0	0
46	$C(2)_{N+1}$ Ruijsenaars's Schneider Models. Letters in Mathematical Physics, 2002, 60, 177-189.	0.5	2
47	Yangians, quantum groups and solutions of the quantum dynamical Yang-Baxter equation. European Physical Journal D, 2001, 51, 1254-1259.	0.4	0
48	Pair production via crossed lasers. Physical Review D, 2001, 63, .	1.6	26
49	On the Quasi-Hopf Structure of Deformed Double Yangians. Letters in Mathematical Physics, 2000, 51, 193-204.	0.5	4
50	On elliptic algebras and double Yangians. European Physical Journal D, 2000, 50, 5-10.	0.4	1
51	The quasi-abelian limit. European Physical Journal C, 2000, 13, 699-709.	1.4	7
52	DEFORMED DOUBLE YANGIAN STRUCTURES. Reviews in Mathematical Physics, 2000, 12, 945-963.	0.7	3
53	Towards a cladistics of double Yangians and elliptic algebras*. Journal of Physics A, 2000, 33, 6279-6309.	1.6	6
54	Central extensions of classical and quantum q -Virasoro algebras. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 251, 13-24.	0.9	9

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55	Deformed \mathcal{W}_N Algebras from Elliptic $\mathfrak{sl}(N)$ Algebras. Communications in Mathematical Physics, 1999, 199, 697-728.	1.0	17
56	Universal Construction of $\mathcal{W}_{q,p}$ Algebras. Communications in Mathematical Physics, 1999, 202, 445-461.	1.0	4
57	q-deformed W-algebras and elliptic algebras. European Physical Journal D, 1998, 48, 1291-1299.	0.4	0
58	New $q,p(\mathfrak{sl}(2))$ algebras from the elliptic algebra $q,p(\mathfrak{sl}(2)_c)$. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 239, 27-35.	0.9	10
59	Yangian-invariant field theory of matrix-vector models. Nuclear Physics B, 1997, 486, 650-672.	0.9	10
60	Poisson structures on the center of the elliptic algebra. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 235, 323-334.	0.9	10
61	From quantum to elliptic algebras. European Physical Journal D, 1997, 47, 1083-1092.	0.4	1
62	Collective field theory of the matrix-vector models. Nuclear Physics B, 1996, 469, 287-301.	0.9	22
63	The Gervais-Neveu-Felder equation and the quantum Calogero-Moser systems. Communications in Mathematical Physics, 1996, 178, 281-299.	1.0	73
64	The classical r-matrix for the relativistic Ruijsenaars-Schneider system. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 212, 50-54.	0.9	12
65	Observable algebras for the rational and trigonometric Euler-Calogero-Moser Models. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 198, 183-194.	0.9	9
66	Collective hamiltonians with Kac-Moody algebraic conditions. Nuclear Physics B, 1995, 439, 679-691.	0.9	1
67	Exact Yangian symmetry in the classical Euler-Calogero-Moser model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 188, 263-271.	0.9	37
68	Integrable extensions of the rational and trigonometric AN Calogero-Moser potentials. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 185, 293-303.	0.9	6
69	The r-matrix structure of the Euler-Calogero-Moser model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 186, 114-118.	0.9	37
70	Classical R-matrix structure for the Calogero model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 303, 33-37.	1.5	74
71	Interacting theory of collective and topological fields in 2 dimensions. Nuclear Physics B, 1993, 397, 672-702.	0.9	8
72	STRING FIELD ACTIONS FROM $W_{\hat{g}}$. Modern Physics Letters A, 1992, 07, 357-370.	0.5	18

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73	W [±] currents in three-dimensional Toda theory. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 168, 363-369.	0.9	9
74	Algebraic structures and eigenstates for integrable collective field theories. Communications in Mathematical Physics, 1992, 150, 149-166.	1.0	21
75	Graded R-matrices for integrable systems. Nuclear Physics B, 1991, 352, 215-249.	0.9	23
76	From rational to trigonometric R-matrices. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 156, 61-68.	0.9	4
77	Classical integrability and higher symmetries of collective string field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 266, 35-41.	1.5	109
78	Alternative Lax structures for the classical and quantum Neumann model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 268, 209-216.	1.5	17
79	Quantum integrability and exact eigenstates of the collective string field theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 272, 17-24.	1.5	52
80	The CP N-1/N-action by inverse scattering transformation in angular momentum. Communications in Mathematical Physics, 1986, 106, 289-319.	1.0	0
81	Instantons of two-dimensional fermionic effective actions by inverse scattering transformation. Communications in Mathematical Physics, 1985, 102, 463-496.	1.0	5
82	Classical solutions by inverse scattering transformation in any number of dimensions. II. Instantons and large orders of the 1/N series for the (1+1)² theory in 1/2 dimensions (1+1/2). Physical Review D, 1984, 29, 2904-2915.		13
83	Classical solutions by inverse scattering transformation in any number of dimensions. I. The gap equation and the effective action. Physical Review D, 1984, 29, 2891-2903.	1.6	25
84	1/N series for quantum anharmonic oscillator eigenvalues and green functions. Nuclear Physics B, 1984, 237, 159-175.	0.9	11