Luc Vinet

List of Publications by Year
in descending order

75 papers	1,573 citations	361413 20 h-index	345221 36 g-index
75 all docs	75 docs citations	75 times ranked	1195 citing authors

#	Article	IF	Citations
1	A 'missing' family of classical orthogonal polynomials. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 085201.	2.1	592
2	Dunkl shift operators and Bannai–Ito polynomials. Advances in Mathematics, 2012, 229, 2123-2158.	1.1	69
3	How to construct spin chains with perfect state transfer. Physical Review A, 2012, 85, .	2.5	59
4	The Bannai-Ito polynomials as Racah coefficients of the $sl_{-1}(2)$ algebra. Proceedings of the American Mathematical Society, 2014, 142, 1545-1560.	0.8	40
5	Almost perfect state transfer in quantum spin chains. Physical Review A, 2012, 86, .	2.5	34
6	A higher rank Racah algebra and the $\mathbb{Z}_2^n$ Laplace–Dunkl operator. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 025203.	2.1	34
7	Quantum spin chains with fractional revival. Annals of Physics, 2016, 371, 348-367.	2.8	32
8	Algebraic Heun Operator and Band-Time Limiting. Communications in Mathematical Physics, 2018, 364, 1041-1068.	2.2	32
9	On the quantum group and quantum algebra approach toq-special functions. Letters in Mathematical Physics, 1993, 27, 179-190.	1.1	31
10	The <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msubsup><mml:mrow><mml:mi mathvariant="double-struck">Z</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow><mml:mrow><mml:mi>n</mml:m Dirac–Dunkl operator and a higher rank Bannai–Ito algebra. Advances in Mathematics, 2016, 303, 390-414.	1.1	31
11	A Laplace-Dunkl Equation on S 2 and the Bannai–Ito Algebra. Communications in Mathematical Physics, 2015, 336, 243-259.	2.2	30
12	A Dirac–Dunkl Equation on S 2 and the Bannai–Ito Algebra. Communications in Mathematical Physics, 2016, 344, 447-464.	2.2	29
13	Free-Fermion entanglement and orthogonal polynomials. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 093101.	2.3	28
14	The equitable Racah algebra from three $\mathfrak{su}(1,1)$ algebras. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 025203.	2.1	27
15	The Bannai–Ito algebra and a superintegrable system with reflections on the two-sphere. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 205202.	2.1	27
16	The Racah algebra and superintegrable models. Journal of Physics: Conference Series, 2014, 512, 012011.	0.4	27
17	Dual -1 Hahn polynomials: "Classical"polynomials beyond the Leonard duality. Proceedings of the American Mathematical Society, 2012, 141, 959-970.	0.8	25
18	Analytic next-to-nearest-neighbor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>X</mml:mi><mml:mi>X</mml:mi></mml:mrow></mml:mr models with perfect state transfer and fractional revival. Physical Review A, 2017, 96, .	2.5	25

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19	Para-Krawtchouk polynomials on a bi-lattice and a quantum spin chain with perfect state transfer. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 265304.	2.1	24
20	Tridiagonalization and the Heun equation. Journal of Mathematical Physics, 2017, 58, 031703.	1.1	24
21	Tridiagonalization of the hypergeometric operator and the Racah–Wilson algebra. Proceedings of the American Mathematical Society, 2016, 144, 4441-4454.	0.8	20
22	The non-symmetric Wilson polynomials are the Bannai–Ito polynomials. Proceedings of the American Mathematical Society, 2016, 144, 5217-5226.	0.8	17
23	The Heun–Askey–Wilson Algebra and the Heun Operator of Askey–Wilson Type. Annales Henri Poincare, 2019, 20, 3091-3112.	1.7	17
24	The algebra of dual -1 Hahn polynomials and the Clebsch-Gordan problem of $sl_{-1}(2)$. Journal of Mathematical Physics, 2013, 54, .	1.1	14
25	An analytic spin chain model with fractional revival. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 335302.	2.1	13
26	The Heun operator of Hahn-type. Proceedings of the American Mathematical Society, 2019, 147, 2987-2998.	0.8	13
27	Heun algebras of Lie type. Proceedings of the American Mathematical Society, 2020, 148, 1079-1094.	0.8	11
28	The Askey–Wilson algebra and its avatars. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	11
29	Exact fractional revival in spin chains. Modern Physics Letters B, 2016, 30, 1650315.	1.9	10
30	The para-Racah polynomials. Journal of Mathematical Analysis and Applications, 2016, 438, 565-577.	1.0	10
31	Dual -1 Hahn polynomials and perfect state transfer. Journal of Physics: Conference Series, 2012, 343, 012125.	0.4	9
32	The Racah algebra as a commutant and Howe duality. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 50LT01.	2.1	9
33	The Higgs and Hahn algebras from a Howe duality perspective. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 1531-1535.	2.1	9
34	Revisiting the Askey–Wilson algebra with the universal R-matrix of $\newcommand{\su}{\mathfrak{sl}} U_q(su_2)$. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 05LT01.	2.1	9
35	Tridiagonal representations of the q-oscillator algebra and Askey–Wilson polynomials. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 235202.	2.1	8
36	Truncation of the reflection algebra and the Hahn algebra. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 35LT01.	2.1	8

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37	The q-Heun operator of big q-Jacobi type and the q-Heun algebra. Ramanujan Journal, 2020, 52, 367-380.	0.7	8
38	Entanglement in fermionic chains and bispectrality. Reviews in Mathematical Physics, 2021, 33, 2140001.	1.7	8
39	Racah Algebras, the Centralizer $$Z_n(\{\{\{\mathfrak{s}\}\}\{\{\mathfrak{l}\}\}\}_2)$$ and Its Hilbertâ€"PoincarÃ© Series. Annales Henri Poincare, 2022, 23, 2657-2682.	1.7	8
40	Persymmetric Jacobi matrices, isospectral deformations and orthogonal polynomials. Journal of Mathematical Analysis and Applications, 2017, 450, 915-928.	1.0	7
41	An embedding of the Bannaiâ€"Ito algebra in $$\mathscr{U}(\mathfrak{osp}(1,2))$$ U (osp (1 , 2)) and $$-1$$ - 1 polynomials. Letters in Mathematical Physics, 2018, 108, 1623-1634.	1.1	7
42	The q-Higgs and Askeyâ€"Wilson algebras. Nuclear Physics B, 2019, 944, 114632.	2.5	7
43	Entanglement of free Fermions on Hadamard graphs. Nuclear Physics B, 2020, 960, 115176.	2.5	7
44	The Heunâ€"Racah and Heunâ€"Bannaiâ€"Ito algebras. Journal of Mathematical Physics, 2020, 61, 081701.	1.1	7
45	Heun operator of Lie type and the modified algebraic Bethe ansatz. Journal of Mathematical Physics, 2021, 62, 083501.	1.1	7
46	Degenerate Sklyanin algebras, Askeyâ€"Wilson polynomials and Heun operators. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 445204.	2.1	7
47	Coherent Transport in Photonic Lattices: A Survey of Recent Analytic Results. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	7
48	A q-generalization of the para-Racah polynomials. Journal of Mathematical Analysis and Applications, 2018, 462, 323-336.	1.0	6
49	The dual pair (Uq(su(1,1)),oq1/2(2n)), q-oscillators, and Askey-Wilson algebras. Journal of Mathematical Physics, 2020, 61, 041701.	1.1	6
50	Quasi-Linear Algebras and Integrability (the Heisenberg Picture). Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2008, , .	0.5	6
51	Linear operator pencils on Lie algebras and Laurent biorthogonal polynomials. Journal of Physics A, 2004, 37, 7711-7725.	1.6	5
52	The Equitable Presentation of $${\mathfrak{osp}_q(1|2)}$$ osp q (1 | 2) and a q-Analog of the Bannaiâ€"Ito Algebra. Letters in Mathematical Physics, 2015, 105, 1725-1734.	1.1	5
53	Bannaiâ€"Ito algebras and the universal R-matrix of $$\pmb{\mathfrak{osp}}(1|2)$$. Letters in Mathematical Physics, 2020, 110, 1043-1055.	1.1	5
54	New realizations of algebras of the Askeyâ€"Wilson type in terms of Lie and quantum algebras. Reviews in Mathematical Physics, 2021, 33, 2150002.	1.7	5

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55	Bargmann and Barut-Girardello models for the Racah algebra. Journal of Mathematical Physics, 2019, 60, 011701.	1.1	4
56	Little and big q-Jacobi polynomials and the Askey–Wilson algebra. Ramanujan Journal, 2020, 51, 629-648.	0.7	4
57	The rational Heun operator and Wilson biorthogonal functions. Ramanujan Journal, 2023, 61, 7-29.	0.7	4
58	Sklyanin-like algebras for (q-)linear grids and (q-)para-Krawtchouk polynomials. Journal of Mathematical Physics, 2021, 62, .	1.1	4
59	An algebraic description of the bispectrality of the biorthogonal rational functions of Hahn type. Proceedings of the American Mathematical Society, 2020, 149, 715-728.	0.8	4
60	Perfect state transfer in a spin chain without mirror symmetry. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 455302.	2.1	3
61	Double Affine Hecke Algebra of Rank 1 and Orthogonal Polynomials on the Unit Circle. Constructive Approximation, 2019, 50, 209-241.	3.0	3
62	Entanglement in Fermionic Chains and Bispectrality. , 2020, , 77-96.		3
63	An algebraic treatment of the Askey biorthogonal polynomials on the unit circle. Forum of Mathematics, Sigma, 2021, 9, .	0.7	3
64	Free boson realization of the Dunkl intertwining operator in one dimension. Reviews in Mathematical Physics, 2022, 34, .	1.7	3
65	A unified algebraic underpinning for the Hahn polynomials and rational functions. Journal of Mathematical Analysis and Applications, 2021, 497, 124863.	1.0	2
66	Signal Processing, Orthogonal Polynomials, and Heun Equations. Tutorials, Schools, and Workshops in the Mathematical Sciences, 2020, , 195-214.	0.3	2
67	Analytic "Newton's cradles" with perfect transfer and fractional revival. Annals of Physics, 2022, , 168790.	2.8	2
68	The SU(3) ⊃ SO(3) missing label problem and the analytical Bethe Ansatz. International Journal of Modern Physics A, 2022, 37, .	1.5	2
69	A classical model for perfect transfer and fractional revival based on q-Racah polynomials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, , 127973.	2.1	1
70	Time and band limiting operator and Bethe ansatz. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	1
71	The rational Sklyanin algebra and the Wilson and para-Racah polynomials. Journal of Mathematical Physics, 2022, 63, .	1.1	1
72	Bispectrality and biorthogonality of the rational functions of q-Hahn type. Journal of Mathematical Analysis and Applications, 2022, 516, 126443.	1.0	1

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73	Convolution identities for Dunkl orthogonal polynomials from the osp(1|2) Lie superalgebra. Journal of Mathematical Physics, 2019, 60, 091701.	1.1	0
74	Orthogonal polynomials and the deformed Jordan plane. Journal of Mathematical Analysis and Applications, 2021, , 125717.	1.0	0
75	Chernâ€"Simons theory, link invariants and the Askeyâ€"Wilson algebra. Nuclear Physics B, 2022, , 115878.	2.5	0