Alexander P Veselov

List of Publications by Year
in descending order

118	3,301	159585	161849
papers	citations	30 h-index	54 g-index

120	120	120	749
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Discrete versions of some classical integrable systems and factorization of matrix polynomials. Communications in Mathematical Physics, 1991, 139, 217-243.	2.2	387
2	Integrable maps. Russian Mathematical Surveys, 1991, 46, 1-51.	0.6	226
3	Dressing chains and the spectral theory of the Schrï¿½dinger operator. Functional Analysis and Its Applications, 1993, 27, 81-96.	0.4	223
4	Integrable discrete-time systems and difference operators. Functional Analysis and Its Applications, 1988, 22, 83-93.	0.4	177
5	Commutative rings of partial differential operators and Lie algebras. Communications in Mathematical Physics, 1990, 126, 597-611.	2.2	123
6	Two-dimensional SchrÃ¶dinger operator: Inverse scattering transform and evolutional equations. Physica D: Nonlinear Phenomena, 1986, 18, 267-273.	2.8	122
7	Growth and integrability in the dynamics of mappings. Communications in Mathematical Physics, 1992, 145, 181-193.	2.2	119
8	Yangâ€“Baxter maps and integrable dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 314, 214-221.	2.1	97
9	Deformed Quantum Calogero-Moser Problems and Lie Superalgebras. Communications in Mathematical Physics, 2004, 245, 249-278.	2.2	73
10	Multidimensional Bakerâ€“Akhiezer Functions and Huygens' Principle. Communications in Mathematical Physics, 1999, 206, 533-566.	2.2	64
11	Yang-Baxter maps and symmetries of integrable equations on quad-graphs. Journal of Mathematical Physics, 2006, 47, 083502.	1.1	58
12	Elliptic Dunkl operators, root systems, and functional equations. Duke Mathematical Journal, 1994, 76, 885.	1.5	57
13	Confocal surfaces and integrable billiards on the sphere and in the Lobachevsky space. Journal of Geometry and Physics, 1990, 7, 81-107.	1.4	48
14	Algebraic integrability for the Schrï¿½dinger equation and finite reflection groups. Theoretical and Mathematical Physics(Russian Federation), 1993, 94, 182-197.	0.9	47
15	Integrable Schrol̂dinger operators with magnetic fields: Factorization method on curved surfaces. Journal of Mathematical Physics, 2001, 42, 590.	1.1	45
16	Monodromy of the matrix SchrÃ¶dinger equations and Darboux transformations. Journal of Physics A, 1998, 31, 5315-5326.	1.6	43
17	A Remark on Rational Isochronous Potentials. Journal of Nonlinear Mathematical Physics, 2005, 12, 179.	1.3	43
18	Integrable nonholonomic systems on Lie groups. Mathematical Notes, 1988, 44, 810-819.	0.4	42

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19	Zeros of Wronskians of Hermite polynomials and Young diagrams. Physica D: Nonlinear Phenomena, 2012, 241, 2131-2137.	2.8	42
20	Hamiltonian formalism for the Novikov?Krichever equations for the commutativity of two operators. Functional Analysis and Its Applications, 1979, 13, 1-6.	0.4	41
21	Generalised discriminants, deformed Calogeroâ€“Moserâ€“Sutherland operators and super-Jack polynomials. Advances in Mathematics, 2005, 192, 341-375.	1.1	40
22	Huygens' principle and integrability. Russian Mathematical Surveys, 1994, 49, 5-77.	0.6	36
23	Integrable Lagrangian correspondences and the factorization of matrix polynomials. Functional Analysis and Its Applications, 1991, 25, 112-122.	0.4	34
24	Integrability in the theory of SchrÃ¶dinger operator and harmonic analysis. Communications in Mathematical Physics, 1993, 152, 29-40.	2.2	34
25	Shift operators for the quantum Calogero-Sutherland problems via Knizhnik-Zamolodchikov equation. Communications in Mathematical Physics, 1994, 160, 259-273.	2.2	34
26	New integrable deformations of the Calogero-Moser quantum problem. Russian Mathematical Surveys, 1996, 51, 573-574.	0.6	34
27	Integrable correspondences and algebraic representations of multivalued groups. International Mathematics Research Notices, 1996, 1996, 381.	1.0	33
28	Cauchy problem for integrable discrete equations on quad-graphs. Acta Applicandae Mathematicae, 2004, 84, 237-262.	1.0	32
29	Locus configurations and â˜¨-systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 285, 339-349.	2.1	30
30	What Is an Integrable Mapping?. Springer Series in Nonlinear Dynamics, 1991, , 251-272.	0.2	27
31	Cauchy Problem for Integrable Discrete Equations on Quad-Graphs. Acta Applicandae Mathematicae, 2004, 84, 237-262.	1.0	26
32	Logarithmic Frobenius structures and Coxeter discriminants. Advances in Mathematics, 2007, 212, 143-162.	1.1	26
33	Integration of the stationary problem for a classical spin chain. Theoretical and Mathematical Physics(Russian Federation), 1987, 71, 446-450.	0.9	25
34	Hadamard's problem and coxeter groups: New examples of Huygens' equations. Functional Analysis and Its Applications, 1994, 28, 3-12.	0.4	25
35	On Stieltjes relations, PainlevÃ©-IV hierarchy and complex monodromy. Journal of Physics A, 2001, 34, 3511-3519.	1.6	25
36	Lax Matrices for Yang-Baxter Maps. Journal of Nonlinear Mathematical Physics, 2003, 10, 223.	1.3	25

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37	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:msub><mml:mi mathvariant="italic">BC</mml:mi><mml:mo>â^ž</mml:mo></mml:msub></mml:math> Calogeroâ€“Moser operator and super Jacobi polynomials. Advances in Mathematics, 2009, 222, 1687-1726.	1.1	24
38	Dunkl Operators at Infinity and Calogeroâ€“Moser Systems. International Mathematics Research Notices, 2015, 2015, 10959-10986.	1.0	23
39	Finite-zone potentials and integrable systems on a sphere with quadratic potential. Functional Analysis and Its Applications, 1980, 14, 37-39.	0.4	22
40	Universality in Chern-Simons theory. Journal of High Energy Physics, 2012, 2012, 1.	4.7	22
41	Part 6. Yang-Baxter Maps: Dynamical Point of View. MSJ Memoirs, 2007, , 145-167.	0.2	22
42	Casimir eigenvalues for universal Lie algebra. Journal of Mathematical Physics, 2012, 53, 102106.	1.1	21
43	Deformed Macdonald-Ruijsenaars Operators and Super Macdonald Polynomials. Communications in Mathematical Physics, 2009, 288, 653-675.	2.2	20
44	On the rational monodromy-free potentials with sextic growth. Journal of Mathematical Physics, 2009, 50, .	1.1	19
45	Whittakerâ€“Hill equation and semifinite-gap SchrÃ¶dinger operators. Journal of Mathematical Physics, 2010, 51, .	1.1	19
46	Grothendieck rings of basic classical Lie superalgebras. Annals of Mathematics, 2011, 173, 663-703.	4.2	19
47	Integrability and Huygens' principle on symmetric spaces. Communications in Mathematical Physics, 1996, 178, 311-338.	2.2	18
48	Gaudin subalgebras and stable rational curves. Compositio Mathematica, 2011, 147, 1463-1478.	0.8	18
49	Actions of the Neumann systems via Picardâ€“Fuchs equations. Physica D: Nonlinear Phenomena, 2001, 155, 159-183.	2.8	17
50	Spectra of Sol-Manifolds: Arithmetic and Quantum Monodromy. Communications in Mathematical Physics, 2006, 264, 583-611.	2.2	17
51	On duality and negative dimensions in the theory of Lie groups and symmetric spaces. Journal of Mathematical Physics, 2011, 52, .	1.1	17
52	On Quadrirational Yang-Baxter Maps. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2010, , .	0.5	17
53	On a remarkable functional equation in the theory of generalized Dunkl operators and transformations of elliptic genera. Mathematische Zeitschrift, 1996, 223, 595-607.	0.9	16
54	On elliptic Calogeroâ€“Moser systems for complex crystallographic reflection groups. Journal of Algebra, 2011, 329, 107-129.	0.7	16

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55	LamÃ© Equation, Quantum Euler Top and Elliptic Bernoulli Polynomials. Proceedings of the Edinburgh Mathematical Society, 2008, 51, 635-650.	0.3	15
56	Two remarks about the connection of Jacobi and Neumann integrable systems. Mathematische Zeitschrift, 1994, 216, 337-345.	0.9	14
57	Calogero quantum problem, Knizhnik-Zamolodchikov equation, and Huygens principle. Theoretical and Mathematical Physics(Russian Federation), 1994, 98, 368-376.	0.9	14
58	Factorization and Poisson correspondences. Theoretical and Mathematical Physics(Russian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T	0.9	14
59	On Darbouxâ€“Treibichâ€“Verdier Potentials. Letters in Mathematical Physics, 2011, 96, 209-216.	1.1	14
60	On the singularities of potentials of exactly soluble SchrÃ¶dinger equations and on Hadamard's problem. Russian Mathematical Surveys, 1998, 53, 208-209.	0.6	13
61	Faulhaber and Bernoulli polynomials and solitons. Physica D: Nonlinear Phenomena, 2001, 152-153, 47-50.	2.8	13
62	Separation Coordinates, Moduli Spaces and Stasheff Polytopes. Communications in Mathematical Physics, 2015, 337, 1255-1274.	2.2	13
63	Yang-Baxter Maps and Matrix Solitons. , 2004, , 191-197.		12
64	Bernoulli Numbers and Solitons. Journal of Nonlinear Mathematical Physics, 2005, 12, 469.	1.3	11
65	Lyapunov spectrum of Markov and Euclid trees. Nonlinearity, 2017, 30, 4428-4453.	1.4	11
66	On the Structure of Singularities of Integrable SchrÃ¶dinger Operators. Letters in Mathematical Physics, 2000, 52, 103-111.	1.1	10
67	Jackâ€“Laurent symmetric functions. Proceedings of the London Mathematical Society, 2015, 111, 63-92.	1.3	10
68	Growth of the number of images of a point under iterates of a multivalued map. Mathematical Notes, 1991, 49, 134-139.	0.4	9
69	Elliptic Faulhaber polynomials and Lame densities of states. International Mathematics Research Notices, 2006, , .	1.0	9
70	Symmetric Lie superalgebras and deformed quantum Calogeroâ€“Moser problems. Advances in Mathematics, 2017, 304, 728-768.	1.1	8
71	Currents on Lie groups with nonholonomic connection and integrable nonhamiltonian systems. Functional Analysis and Its Applications, 1987, 20, 308-309.	0.4	7
72	The Huygens principle and Coxeter groups. Russian Mathematical Surveys, 1993, 48, 183-184.	0.6	7

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73	Two-dimensional â€˜discrete hydrodynamicsâ€™ and Mongeâ€“AmpÃ¨re equations. Ergodic Theory and Dynamical Systems, 2002, 22, .	0.6	7
74	JACKâ€“LAURENT SYMMETRIC FUNCTIONS FOR SPECIAL VALUES OF PARAMETERS. Glasgow Mathematical Journal, 2016, 58, 599-616.	0.3	7
75	vee -Systems, Holonomy Lie Algebras, and Logarithmic Vector Fields. International Mathematics Research Notices, 2018, 2018, 2070-2098.	1.0	7
76	Parametric resonance and geodesics on an ellipsoid. Functional Analysis and Its Applications, 1992, 26, 211-213.	0.4	6
77	On a remarkable functional equation in the theory of generalized Dunkl operators and transformations of elliptic genera. Mathematische Zeitschrift, 1996, 223, 595-607.	0.9	6
78	BAKERâ€“AKHIEZER FUNCTION AS ITERATED RESIDUE AND SELBERG-TYPE INTEGRAL. Glasgow Mathematical Journal, 2009, 51, 59-73.	0.3	6
79	Euler characters and super Jacobi polynomials. Advances in Mathematics, 2011, 226, 4286-4315.	1.1	6
80	Conway topograph, -dynamics and two-valued groups. Russian Mathematical Surveys, 2019, 74, 387-430.	0.6	6
81	Multidimensional Bakerâ€“Akhiezer Functions and Huygens' Principle. Communications in Mathematical Physics, 1999, 206, 533.	2.2	6
82	Explicit formulas for spherical functions on symmetric spaces of type AII. Functional Analysis and Its Applications, 1992, 26, 59-61.	0.4	5
83	Dunkl operators, functional equations, and transformations of elliptic genera. Russian Mathematical Surveys, 1994, 49, 145-147.	0.6	5
84	On generalizations of the Calogeroâ€“Moserâ€“Sutherland quantum problem and WDVV equations. Journal of Mathematical Physics, 2002, 43, 5675-5682.	1.1	5
85	On the real zeroes of the Hurwitz zeta-function and Bernoulli polynomials. Journal of Mathematical Analysis and Applications, 2005, 305, 712-721.	1.0	5
86	Gaudin subalgebras and wonderful models. Selecta Mathematica, New Series, 2016, 22, 1057-1071.	1.0	5
87	Growth of values of binary quadratic forms and Conway rivers. Bulletin of the London Mathematical Society, 2018, 50, 513-528.	0.8	5
88	Conway River and Arnold Sail. Arnold Mathematical Journal, 2018, 4, 169-177.	0.4	5
89	Structure of axisymmetric soliton solutions of Einstein's equations. Theoretical and Mathematical Physics(Russian Federation), 1983, 54, 155-160.	0.9	4
90	Baker-Akhiezer functions and generalised Macdonald-Mehta integrals. Journal of Mathematical Physics, 2013, 54, .	1.1	4

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91	On geometric quantization of the Dirac magnetic monopole. Journal of Nonlinear Mathematical Physics, 2014, 21, 34.	1.3	4
92	Complex Exceptional Orthogonal Polynomials and Quasi-invariance. Letters in Mathematical Physics, 2016, 106, 583-606.	1.1	4
93	Markov numbers, Matherâ€™s Î² function and stable norm. Nonlinearity, 2019, 32, 2147-2156.	1.4	4
94	A few things I learnt from JÃ¼rgen Moser. Regular and Chaotic Dynamics, 2008, 13, 515-524.	0.8	3
95	Periodic continued fractions and hyperelliptic curves. Journal of the London Mathematical Society, 2008, 77, 593-606.	1.0	3
96	On deformation and classification of â˜-systems. Journal of Nonlinear Mathematical Physics, 2014, 21, 543.	1.3	3
97	Burchnallâ€“Chaundy polynomials and the Laurent phenomenon. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 205201.	2.1	3
98	Geodesic scattering on hyperboloids and KnÃ¶rrerâ€™s map. Nonlinearity, 2021, 34, 5926-5954.	1.4	3
99	Complex Geometry of the Billiard on the Ellipsoid and Quasicrystallic Curves. , 1994, , 277-283.		2
100	Huygens' principle and integrable systems. Physica D: Nonlinear Phenomena, 1995, 87, 9-13.	2.8	2
101	Multidimensional integrable SchrÃ¶dinger operators with matrix potential. Journal of Mathematical Physics, 1999, 40, 5341-5355.	1.1	2
102	Discrete Lagrangian systems on the Virasoro group and CamassaÂHolm family. Nonlinearity, 2003, 16, 683-688.	1.4	2
103	Polynomial Solutions of the Knizhnik-Zamolodchikov Equations and Schur-Weyl Duality. International Mathematics Research Notices, 2010, , .	1.0	2
104	New integrable two-centre problem on sphere in Dirac magnetic field. Letters in Mathematical Physics, 2020, 110, 3105-3119.	1.1	2
105	Huygensâ€™ Principle and Integrability. Progress in Mathematics, 1998, , 259-275.	0.3	2
106	Automorphic Lie Algebras and Modular Forms. International Mathematics Research Notices, 2023, 2023, 5209-5262.	1.0	2
107	Exactly soluble periodic two-dimensional SchrÃ¶dinger operators. Russian Mathematical Surveys, 1995, 50, 1316-1317.	0.6	1
108	QUANTUM CALOGERO-MOSER SYSTEMS: A VIEW FROM INFINITY. , 2010, , .		1

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109	Orbits and Invariants of Super Weyl Groupoid. International Mathematics Research Notices, 2016, , rnw182.	1.0	1
110	Universal formula for the Hilbert series of minimal nilpotent orbits. Proceedings of the American Mathematical Society, 2017, 145, 5123-5130.	0.8	1
111	Quasiâ€“invariant Hermite Polynomials and Lassalleâ€“Nekrasov Correspondence. Communications in Mathematical Physics, 2021, 386, 107-141.	2.2	1
112	Integrable generalisations of Dirac magnetic monopole. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 494004.	2.1	1
113	On the Spectra of Real and Complex LamÃ© Operators. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	1
114	Dynamics of the singularities of solutions of some nonlinear equations. Theoretical and Mathematical Physics(Russian Federation), 1982, 50, 314-316.	0.9	0
115	Viktor Matveevich Buchstaber (on his 70th birthday). Russian Mathematical Surveys, 2013, 68, 581-590.	0.6	0
116	In search for a perfect shape of polyhedra: Buffon transformation. L'Enseignement Mathematique, 2015, 61, 261-284.	0.1	0
117	New Integrable Generalizations of the CMS Quantum Problem and Deformations of Root Systems. , 2000, , 507-519.		0
118	Periodic Vortex Streets and Complex Monodromy. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 0, , .	0.5	0