Evgeny L Korotyaev

List of Publications by Year
in descending order

139	1,418	394421	477307
papers	citations	19 h-index	29 g-index

141	141	141	196
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Trace formulas for SchrÃ¶dinger operators on periodic graphs. Journal of Mathematical Analysis and Applications, 2022, 508, 125888.	1.0	3
2	Two-sided estimates of total bandwidth for SchrÃ¶dinger operators on periodic graphs. Communications on Pure and Applied Analysis, 2022, 21, 1691.	0.8	3
3	Inverse resonance scattering for massless Dirac operators on the real line. Asymptotic Analysis, 2022, , 1-48.	0.5	0
4	Hill's operators with the potentials analytically dependent on energy. Journal of Differential Equations, 2021, 271, 638-664.	2.2	1
5	Third-order operators with three-point conditions associated with Boussinesq's equation. Applicable Analysis, 2021, 100, 527-560.	1.3	13
6	Asymptotics and estimates for the discrete spectrum of the SchrÃ¶dinger operator on a discrete periodic graph. St Petersburg Mathematical Journal, 2021, 32, 9-29.	0.4	1
7	SchrÃ¶dinger operators periodic in octants. Letters in Mathematical Physics, 2021, 111, 1.	1.1	0
8	Eigenvalues of periodic difference operators on lattice octants. Journal of Mathematical Analysis and Applications, 2021, 500, 125138.	1.0	1
9	Periodic Dirac operator with dislocation. Journal of Differential Equations, 2021, 296, 369-411.	2.2	0
10	Inverse resonance scattering for Dirac operators on the half-line. Analysis and Mathematical Physics, 2021, 11, 1.	1.3	5
11	Inverse resonance scattering on rotationally symmetric manifolds. Asymptotic Analysis, 2021, 125, 347-363.	0.5	1
12	Resonances for the Dirac Operator on the Half-Line. Functional Analysis and Its Applications, 2021, 55, 326-329.	0.4	0
13	Eigenvalues of SchrÃ¶dinger operators on finite and infinite intervals. Mathematische Nachrichten, 2021, 294, 2188-2199.	0.8	2
14	Trace formulas for SchrÃ¶dinger operators with complex potentials on a half line. Letters in Mathematical Physics, 2020, 110, 1-20.	1.1	6
15	Invariants for Laplacians on periodic graphs. Mathematische Annalen, 2020, 377, 723-758.	1.4	10
16	Inverse Spectral Theory for Perturbed Torus. Journal of Geometric Analysis, 2020, 30, 4427-4452.	1.0	1
17	Scattering on periodic metric graphs. Reviews in Mathematical Physics, 2020, 32, 2050024.	1.7	6
18	Dubrovin equation for periodic Dirac operator on the half-line. Applicable Analysis, 2020, , 1-29.	1.3	5

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19	Asymptotics of determinants of 4â€‰th order operators at zero. Mathematische Nachrichten, 2020, 293, 210-225.	0.8	0
20	Trace Formulas for SchrÃ¶dinger Operators with Complex Potentials. Russian Journal of Mathematical Physics, 2020, 27, 82-98.	1.5	3
21	Spectral estimates for SchrÃ¶dinger operators on periodic discrete graphs. St Petersburg Mathematical Journal, 2019, 30, 667-698.	0.4	11
22	Resonances of third order differential operators. Journal of Mathematical Analysis and Applications, 2019, 478, 82-107.	1.0	7
23	Inverse Sturmâ€“Liouville problems for non-Borg conditions. Journal of Inverse and Ill-Posed Problems, 2019, 27, 445-452.	1.0	1
24	Resonances of 4th order differential operators. Asymptotic Analysis, 2019, 111, 137-177.	0.5	3
25	Dislocation problem for the Dirac operator. , 2019, , .		0
26	Eigenvalue bounds for Stark operators with complex potentials. Transactions of the American Mathematical Society, 2019, 373, 971-1008.	0.9	2
27	Inverse Problems for Finite Vector-Valued Jacobi Operators. Functional Analysis and Its Applications, 2019, 53, 174-181.	0.4	0
28	Weighted estimates for the Laplacian on the cubic lattice. Arkiv for Matematik, 2019, 57, 397-428.	0.5	10
29	Asymptotics of resonances for 1D Stark operators. Letters in Mathematical Physics, 2018, 108, 1307-1322.	1.1	15
30	Trace formulae for SchrÃ¶dinger operators with complex-valued potentials on cubic lattices. Bulletin of Mathematical Sciences, 2018, 8, 453-475.	0.7	10
31	New Trace Formulas in Terms of Resonances for Three-Dimensional SchrÃ¶dinger Operators. Russian Journal of Mathematical Physics, 2018, 25, 27-43.	1.5	2
32	Surface spectra of discrete Laplacians. , 2018, , .		0
33	Invariants and spectral estimates for Laplacians on periodic graphs. , 2018, , .		0
34	Third order operator for the good Boussinesq equation on the circle. , 2018, , .		0
35	Magnetic SchrÃ¶dinger operators on periodic discrete graphs. Journal of Functional Analysis, 2017, 272, 1625-1660.	1.4	19
36	Resonances for Eulerâ€“Bernoulli operator on the half-line. Journal of Differential Equations, 2017, 263, 534-566.	2.2	8

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37	Trace formulas for a discrete SchrÃ¶dinger operator. Functional Analysis and Its Applications, 2017, 51, 225-229.	0.4	4
38	Resonances for 1d Stark operators. Journal of Spectral Theory, 2017, 7, 699-732.	0.8	26
39	Laplacians on periodic graphs with guides. Journal of Mathematical Analysis and Applications, 2017, 455, 1444-1469.	1.0	7
40	Liebâ€“Thirring type inequality for resonances. Bulletin of Mathematical Sciences, 2017, 7, 211-217.	0.7	0
41	Global transformations preserving Sturmâ€“Liouville spectral data. Russian Journal of Mathematical Physics, 2017, 24, 51-68.	1.5	2
42	SchrÃ¶dinger operators with guided potentials on periodic graphs. Proceedings of the American Mathematical Society, 2017, 145, 4869-4883.	0.8	9
43	Spectrum of Laplacians on periodic graphs with guides. , 2017, , .		0
44	Resonances of 4-th order differential operators on the line. , 2017, , .		0
45	Inverse spectral theory and the Minkowski problem for the surface of revolution. Dynamics of Partial Differential Equations, 2017, 14, 321-341.	0.9	2
46	Estimates of 1D resonances in terms of potentials. Journal D'Analyse Mathematique, 2016, 130, 151-166.	0.8	11
47	Eigenfunctions of Laplacians on periodic metric graphs. , 2016, , .		0
48	Trace formulas for the beam equation. , 2016, , .		0
49	Resonances for the beam equation. , 2016, , .		0
50	KdV Hamiltonian as a Function of Actions. Journal of Dynamical and Control Systems, 2016, 22, 661-682.	0.8	2
51	Effective masses for Laplacians on periodic graphs. Journal of Mathematical Analysis and Applications, 2016, 436, 104-130.	1.0	11
52	Estimates of bands for Laplacians on periodic equilateral metric graphs. Proceedings of the American Mathematical Society, 2015, 144, 1605-1617.	0.8	4
53	Resonances for the radial Dirac operators. Asymptotic Analysis, 2015, 93, 327-370.	0.5	3
54	Inverse problems and sharp eigenvalue asymptotics for Eulerâ€“Bernoulli operators. Inverse Problems, 2015, 31, 055004.	2.0	13

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55	Spectral band localization for SchrÃ¶dinger operators on discrete periodic graphs. Proceedings of the American Mathematical Society, 2015, 143, 3951-3967.	0.8	16
56	Trace formulas for fourth order operators on unit interval, II. Dynamics of Partial Differential Equations, 2015, 12, 217-239.	0.9	3
57	A third order operator with periodic coefficients on the real line. St Petersburg Mathematical Journal, 2014, 25, 713-734.	0.4	5
58	Sharp eigenvalue asymptotics for fourth order operators on the circle. Journal of Mathematical Analysis and Applications, 2014, 417, 804-818.	1.0	9
59	Asymptotics of the S-matrix for perturbed Hill operators. Russian Journal of Mathematical Physics, 2014, 21, 46-54.	1.5	0
60	Global Estimates of Resonances for 1D Dirac Operators. Letters in Mathematical Physics, 2014, 104, 43-53.	1.1	10
61	Resonances for 1D massless Dirac operators. Journal of Differential Equations, 2014, 256, 3038-3066.	2.2	15
62	SchrÃ¶dinger operators on periodic discrete graphs. Journal of Mathematical Analysis and Applications, 2014, 420, 576-611.	1.0	52
63	Resonances for Dirac operators on the half-line. Journal of Mathematical Analysis and Applications, 2014, 420, 279-313.	1.0	15
64	Hamiltonian and Small Action Variables for dNLS on the Circle. International Mathematics Research Notices, 2013, 2013, 2203-2239.	1.0	1
65	Trace formula for fourth order operators on the circle. Dynamics of Partial Differential Equations, 2013, 10, 343-352.	0.9	4
66	On the resonances and eigenvalues for a 1D half-crystal with localised impurity. Journal Fur Die Reine Und Angewandte Mathematik, 2012, 2012, .	0.9	4
67	Sharp asymptotics of the quasimomentum. Asymptotic Analysis, 2012, 80, 269-287.	0.5	5
68	Even Order Periodic Operators on the Real Line. International Mathematics Research Notices, 2012, 2012, 1143-1194.	1.0	13
69	Spectral asymptotics for the third order operator with periodic coefficients. Journal of Differential Equations, 2012, 253, 3113-3146.	2.2	11
70	Inverse Problems, Trace Formulae for Discrete SchrÃ¶dinger Operators. Annales Henri Poincare, 2012, 13, 751-788.	1.7	48
71	Periodic Jacobi operator with finitely supported perturbations: The inverse resonance problem. Journal of Differential Equations, 2012, 252, 2823-2844.	2.2	9
72	Resonances for periodic Jacobi operators with finitely supported perturbations. Journal of Mathematical Analysis and Applications, 2012, 388, 1239-1253.	1.0	8

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73	Spectral estimates for a periodic fourth-order operator. St Petersburg Mathematical Journal, 2011, 22, 703-736.	0.4	17
74	Resonance theory for perturbed Hill operator. Asymptotic Analysis, 2011, 74, 199-227.	0.5	14
75	Inverse resonance scattering for Jacobi operators. Russian Journal of Mathematical Physics, 2011, 18, 427-439.	1.5	4
76	Periodic Jacobi operator with finitely supported perturbation on the half-lattice. Inverse Problems, 2011, 27, 115003.	2.0	8
77	Estimates for solutions of KDV on the phase space of periodic distributions in terms of action variables. Discrete and Continuous Dynamical Systems, 2011, 30, 219-225.	0.9	1
78	Estimates for periodic Zakharovâ€“Shabat operators. Journal of Differential Equations, 2010, 249, 76-93.	2.2	2
79	A magnetic SchrÃ¶dinger operator on a periodic graph. Sbornik Mathematics, 2010, 201, 1403-1448.	0.6	5
80	SchrÃ¶dinger Operator on the Zigzag Half-Nanotube in Magnetic Field. Mathematical Modelling of Natural Phenomena, 2010, 5, 175-197.	2.4	6
81	The inverse Sturmâ€“Liouville problem with mixed boundary conditions. St Petersburg Mathematical Journal, 2010, 21, 761-761.	0.4	8
82	Conformal spectral theory for the monodromy matrix. Transactions of the American Mathematical Society, 2010, 362, 3435-3462.	0.9	8
83	Zigzag nanoribbons in external electric fields. Asymptotic Analysis, 2010, 66, 187-206.	0.5	13
84	Zigzag nanoribbons in external electric and magnetic fields. International Journal of Computing Science and Mathematics, 2010, 3, 168.	0.3	9
85	Weylâ€“Titchmarsh functions of vector-valued Sturmâ€“Liouville operators on the unit interval. Journal of Functional Analysis, 2009, 257, 1546-1588.	1.4	34
86	Borg-type uniqueness theorems for periodic Jacobi operators with matrix-valued coefficients. Proceedings of the American Mathematical Society, 2009, 137, 1989-1996.	0.8	6
87	Effective Masses for Zigzag Nanotubes in Magnetic Fields. Letters in Mathematical Physics, 2008, 83, 83-95.	1.1	16
88	A priori estimates for the Hill and Dirac operators. Russian Journal of Mathematical Physics, 2008, 15, 320-331.	1.5	5
89	REMARK ON ESTIMATE OF A POTENTIAL IN TERMS OF EIGENVALUES OF THE STURMâ€“LIOUVILLE OPERATOR. Modern Physics Letters B, 2008, 22, 2177-2180.	1.9	0
90	Spectral estimates for matrix-valued periodic Dirac operators. Asymptotic Analysis, 2008, 59, 195-225.	0.5	9

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91	Marchenko-Ostrovski mappings for periodic Jacobi matrices. Russian Journal of Mathematical Physics, 2007, 14, 448-452.	1.5	3
92	The Inverse Problem for Perturbed Harmonic Oscillator on the Half-Line with a Dirichlet Boundary Condition. Annales Henri Poincare, 2007, 8, 1115-1150.	1.7	16
93	SchrÃ¶dinger Operators on Zigzag Nanotubes. Annales Henri Poincare, 2007, 8, 1151-1176.	1.7	53
94	Estimates for the Hill operator, II. Journal of Differential Equations, 2006, 223, 229-260.	2.2	22
95	The Lyapunov function for SchrÃ¶dinger operators with a periodic <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	1.4	8
96	Parametrization of the isospectral set for the vector-valued Sturmâ€“Liouville problem. Journal of Functional Analysis, 2006, 241, 359-373.	1.4	9
97	Gap-length mapping for periodic Jacobi matrices. Russian Journal of Mathematical Physics, 2006, 13, 64-69.	1.5	9
98	The Inverse Problem for a Discrete Periodic Schrodinger Operator. Journal of Mathematical Sciences, 2006, 134, 2292-2294.	0.4	1
99	Inverse Problem for the Discrete 1D SchrÃ¶dinger Operator with Small Periodic Potentials. Communications in Mathematical Physics, 2006, 261, 673-692.	2.2	8
100	Spectral estimates for Schrodinger operators with periodic matrix potentials on the real line. International Mathematics Research Notices, 2006, , .	1.0	12
101	Spectral Asymptotics of the Harmonic Oscillator Perturbed by Bounded Potentials. Annales Henri Poincare, 2005, 6, 747-789.	1.7	6
102	Inverse resonance scattering on the real line. Inverse Problems, 2005, 21, 325-341.	2.0	52
103	Spectral asymptotics for periodic fourth-order operators. International Mathematics Research Notices, 2005, 2005, 2775.	1.0	13
104	Inverse problem and estimates for periodic Zakharov-Shabat systems. Journal Fur Die Reine Und Angewandte Mathematik, 2005, 2005, 87-115.	0.9	19
105	Inverse Spectral Problem for the Periodic Camassa-Holm Equation. Journal of Nonlinear Mathematical Physics, 2004, 11, 499.	1.3	6
106	Inverse Problem for Harmonic Oscillator Perturbed by Potential, Characterization. Communications in Mathematical Physics, 2004, 249, 133-196.	2.2	28
107	A trace formula and high-energy spectral asymptotics for the perturbed Landau Hamiltonian. Journal of Functional Analysis, 2004, 217, 221-248.	1.4	28
108	An Inverse Problem for an Harmonic Oscillator Perturbed by Potential: Uniqueness. Letters in Mathematical Physics, 2003, 64, 7-21.	1.1	14

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109	Spectral Estimates for Periodic Jacobi Matrices. Communications in Mathematical Physics, 2003, 234, 517-532.	2.2	18
110	Periodic â€œweightedâ€•operators. Journal of Differential Equations, 2003, 189, 461-486.	2.2	14
111	The Marchenkoâ€“Ostrovski mapping and the trace formula for the Camassaâ€“Holm equation. Journal of Functional Analysis, 2003, 203, 494-518.	1.4	8
112	ON THE HIGH-ENERGY ASYMPTOTICS OF THE INTEGRATED DENSITY OF STATES. Bulletin of the London Mathematical Society, 2003, 35, 770-776.	0.8	10
113	Title is missing!. International Mathematics Research Notices, 2002, 2002, 2007.	1.0	10
114	Marchenkoâ€“Ostrovki Mapping for Periodic Zakharovâ€“Shabat Systems. Journal of Differential Equations, 2001, 175, 244-274.	2.2	12
115	Estimates for the Hill Operator, I. Journal of Differential Equations, 2000, 162, 1-26.	2.2	35
116	Inverse Problem for Periodic â€œWeightedâ€•Operators. Journal of Functional Analysis, 2000, 170, 188-218.	1.4	23
117	Lattice Dislocations in a 1-Dimensional Model. Communications in Mathematical Physics, 2000, 213, 471-489.	2.2	23
118	Parametrization of periodic weighted operators in terms of gap lengths. Inverse Problems, 2000, 16, 1839-1860.	2.0	6
119	Inverse problem and the trace formula for the Hill operator, II. Mathematische Zeitschrift, 1999, 231, 345-368.	0.9	37
120	Scattering on an anisotropic potential in a constant electric field. Journal of Mathematical Sciences, 1998, 91, 2768-2775.	0.4	0
121	Estimates of Periodic Potentials in Terms of Gap Lengths. Communications in Mathematical Physics, 1998, 197, 521-526.	2.2	33
122	Title is missing!. International Mathematics Research Notices, 1997, 1997, 113.	1.0	20
123	The propagation of the waves in periodic media at large time. Asymptotic Analysis, 1997, 15, 1-24.	0.5	16
124	The estimates of periodic potentials in terms of effective masses. Communications in Mathematical Physics, 1997, 183, 383-400.	2.2	34
125	The inverse problem for the Hill operator, a direct approach. Inventiones Mathematicae, 1997, 129, 567-593.	2.5	56
126	Effective masses and conformal mappings. Communications in Mathematical Physics, 1995, 169, 597-625.	2.2	45

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127	Diffusion in layered media at large times. Theoretical and Mathematical Physics(Russian Federation), 1994, 98, 72-99.	0.9	3
128	Some properties of the quasimomentum of the one-dimensional Hill operator. Journal of Soviet Mathematics, 1992, 62, 3081-3087.	0.0	5
129	ON SCATTERING IN AN EXTERNAL, HOMOGENEOUS, TIME-PERIODIC MAGNETIC FIELD. Sbornik: Mathematics, 1990, 66, 499-522.	0.2	15
130	Dynamic stark effect in a three-particle system. Theoretical and Mathematical Physics(Russian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	0.9	0
131	ON THE SCATTERING THEORY OF SEVERAL PARTICLES IN AN EXTERNAL ELECTRIC FIELD. Sbornik: Mathematics, 1988, 60, 177-196.	0.2	12
132	Resonance scattering in a pair of spaces. Theoretical and Mathematical Physics(Russian Federation), 1987, 70, 304-312.	0.9	1
133	Theory of potential scattering, taking into account spatial anisotropy. Journal of Soviet Mathematics, 1986, 34, 2040-2050.	0.0	3
134	Factorization of three-particle S matrix at high energies. Theoretical and Mathematical Physics(Russian Federation), 1985, 63, 584-588.	0.9	2
135	Scattering theory for a three-particle system with two-body interactions periodic in time. Theoretical and Mathematical Physics(Russian Federation), 1985, 62, 163-171.	0.9	15
136	ON THE EIGENFUNCTIONS OF THE MONODROMY OPERATOR OF THE SCHRÃ–DINGER OPERATOR WITH A TIME-PERIODIC POTENTIAL. Sbornik: Mathematics, 1985, 52, 423-438.	0.2	3
137	Scattering problem for a slowly decreasing potential that is periodically dependent on time. Journal of Soviet Mathematics, 1983, 21, 333-334.	0.0	0
138	Spectrum of the monodromy operator of the schrï¿½dinger operator with a potential which is periodic with respect to time. Journal of Soviet Mathematics, 1983, 21, 715-717.	0.0	4
139	Traces on surfaces for function classes with dominant mixed derivatives. Journal of Soviet Mathematics, 1978, 10, 73-86.	0.0	1