

Evgeny L Korotyaev

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9308043/publications.pdf>

Version: 2024-02-01

139
papers

1,418
citations

394421

19
h-index

477307

29
g-index

141
all docs

141
docs citations

141
times ranked

196
citing authors

#	ARTICLE	IF	CITATIONS
1	The inverse problem for the Hill operator, a direct approach. <i>Inventiones Mathematicae</i> , 1997, 129, 567-593.	2.5	56
2	Schrödinger Operators on Zigzag Nanotubes. <i>Annales Henri Poincare</i> , 2007, 8, 1151-1176.	1.7	53
3	Inverse resonance scattering on the real line. <i>Inverse Problems</i> , 2005, 21, 325-341.	2.0	52
4	Schrödinger operators on periodic discrete graphs. <i>Journal of Mathematical Analysis and Applications</i> , 2014, 420, 576-611.	1.0	52
5	Inverse Problems, Trace Formulae for Discrete Schrödinger Operators. <i>Annales Henri Poincare</i> , 2012, 13, 751-788.	1.7	48
6	Effective masses and conformal mappings. <i>Communications in Mathematical Physics</i> , 1995, 169, 597-625.	2.2	45
7	Inverse problem and the trace formula for the Hill operator, II. <i>Mathematische Zeitschrift</i> , 1999, 231, 345-368.	0.9	37
8	Estimates for the Hill Operator, I. <i>Journal of Differential Equations</i> , 2000, 162, 1-26.	2.2	35
9	The estimates of periodic potentials in terms of effective masses. <i>Communications in Mathematical Physics</i> , 1997, 183, 383-400.	2.2	34
10	Weyl–Titchmarsh functions of vector-valued Sturm–Liouville operators on the unit interval. <i>Journal of Functional Analysis</i> , 2009, 257, 1546-1588.	1.4	34
11	Estimates of Periodic Potentials in Terms of Gap Lengths. <i>Communications in Mathematical Physics</i> , 1998, 197, 521-526.	2.2	33
12	Inverse Problem for Harmonic Oscillator Perturbed by Potential, Characterization. <i>Communications in Mathematical Physics</i> , 2004, 249, 133-196.	2.2	28
13	A trace formula and high-energy spectral asymptotics for the perturbed Landau Hamiltonian. <i>Journal of Functional Analysis</i> , 2004, 217, 221-248.	1.4	28
14	Resonances for 1d Stark operators. <i>Journal of Spectral Theory</i> , 2017, 7, 699-732.	0.8	26
15	Inverse Problem for Periodic ϵ -Weighted Operators. <i>Journal of Functional Analysis</i> , 2000, 170, 188-218.	1.4	23
16	Lattice Dislocations in a 1-Dimensional Model. <i>Communications in Mathematical Physics</i> , 2000, 213, 471-489.	2.2	23
17	Estimates for the Hill operator, II. <i>Journal of Differential Equations</i> , 2006, 223, 229-260.	2.2	22
18	Title is missing!. <i>International Mathematics Research Notices</i> , 1997, 1997, 113.	1.0	20

#	ARTICLE	IF	CITATIONS
19	Inverse problem and estimates for periodic Zakharov-Shabat systems. Journal Fur Die Reine Und Angewandte Mathematik, 2005, 2005, 87-115.	0.9	19
20	Magnetic Schrödinger operators on periodic discrete graphs. Journal of Functional Analysis, 2017, 272, 1625-1660.	1.4	19
21	Spectral Estimates for Periodic Jacobi Matrices. Communications in Mathematical Physics, 2003, 234, 517-532.	2.2	18
22	Spectral estimates for a periodic fourth-order operator. St Petersburg Mathematical Journal, 2011, 22, 703-736.	0.4	17
23	The propagation of the waves in periodic media at large time. Asymptotic Analysis, 1997, 15, 1-24.	0.5	16
24	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
25	Effective Masses for Zigzag Nanotubes in Magnetic Fields. Letters in Mathematical Physics, 2008, 83, 83-95.	1.1	16
26	Spectral band localization for Schrödinger operators on discrete periodic graphs. Proceedings of the American Mathematical Society, 2015, 143, 3951-3967.	0.8	16
27	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
28	ON SCATTERING IN AN EXTERNAL, HOMOGENEOUS, TIME-PERIODIC MAGNETIC FIELD. Sbornik: Mathematics, 1990, 66, 499-522.	0.2	15
29	Resonances for 1D massless Dirac operators. Journal of Differential Equations, 2014, 256, 3038-3066.	2.2	15
30	Resonances for Dirac operators on the half-line. Journal of Mathematical Analysis and Applications, 2014, 420, 279-313.	1.0	15
31	Asymptotics of resonances for 1D Stark operators. Letters in Mathematical Physics, 2018, 108, 1307-1322.	1.1	15
32	An Inverse Problem for an Harmonic Oscillator Perturbed by Potential: Uniqueness. Letters in Mathematical Physics, 2003, 64, 7-21.	1.1	14
33	Periodic ϵ -weighted operators. Journal of Differential Equations, 2003, 189, 461-486.	2.2	14
34	Resonance theory for perturbed Hill operator. Asymptotic Analysis, 2011, 74, 199-227.	0.5	14
35	Spectral asymptotics for periodic fourth-order operators. International Mathematics Research Notices, 2005, 2005, 2775.	1.0	13
36	Zigzag nanoribbons in external electric fields. Asymptotic Analysis, 2010, 66, 187-206.	0.5	13

#	ARTICLE	IF	CITATIONS
37	Even Order Periodic Operators on the Real Line. International Mathematics Research Notices, 2012, 2012, 1143-1194.	1.0	13
38	Inverse problems and sharp eigenvalue asymptotics for Euler–Bernoulli operators. Inverse Problems, 2015, 31, 055004.	2.0	13
39	Third-order operators with three-point conditions associated with Boussinesq's equation. Applicable Analysis, 2021, 100, 527-560.	1.3	13
40	ON THE SCATTERING THEORY OF SEVERAL PARTICLES IN AN EXTERNAL ELECTRIC FIELD. Sbornik: Mathematics, 1988, 60, 177-196.	0.2	12
41	Marchenko–Ostrovki Mapping for Periodic Zakharov–Shabat Systems. Journal of Differential Equations, 2001, 175, 244-274.	2.2	12
42	Spectral estimates for Schrodinger operators with periodic matrix potentials on the real line. International Mathematics Research Notices, 2006, , .	1.0	12
43	Spectral asymptotics for the third order operator with periodic coefficients. Journal of Differential Equations, 2012, 253, 3113-3146.	2.2	11
44	Estimates of 1D resonances in terms of potentials. Journal D'Analyse Mathematique, 2016, 130, 151-166.	0.8	11
45	Effective masses for Laplacians on periodic graphs. Journal of Mathematical Analysis and Applications, 2016, 436, 104-130.	1.0	11
46	Spectral estimates for Schrödinger operators on periodic discrete graphs. St Petersburg Mathematical Journal, 2019, 30, 667-698.	0.4	11
47	Title is missing!. International Mathematics Research Notices, 2002, 2002, 2007.	1.0	10
48	ON THE HIGH-ENERGY ASYMPTOTICS OF THE INTEGRATED DENSITY OF STATES. Bulletin of the London Mathematical Society, 2003, 35, 770-776.	0.8	10
49	Global Estimates of Resonances for 1D Dirac Operators. Letters in Mathematical Physics, 2014, 104, 43-53.	1.1	10
50	Trace formulae for Schrödinger operators with complex-valued potentials on cubic lattices. Bulletin of Mathematical Sciences, 2018, 8, 453-475.	0.7	10
51	Invariants for Laplacians on periodic graphs. Mathematische Annalen, 2020, 377, 723-758.	1.4	10
52	Weighted estimates for the Laplacian on the cubic lattice. Arkiv for Matematik, 2019, 57, 397-428.	0.5	10
53	Parametrization of the isospectral set for the vector-valued Sturm–Liouville problem. Journal of Functional Analysis, 2006, 241, 359-373.	1.4	9
54	Gap-length mapping for periodic Jacobi matrices. Russian Journal of Mathematical Physics, 2006, 13, 64-69.	1.5	9

#	ARTICLE	IF	CITATIONS
55	Spectral estimates for matrix-valued periodic Dirac operators. <i>Asymptotic Analysis</i> , 2008, 59, 195-225.	0.5	9
56	Zigzag nanoribbons in external electric and magnetic fields. <i>International Journal of Computing Science and Mathematics</i> , 2010, 3, 168.	0.3	9
57	Periodic Jacobi operator with finitely supported perturbations: The inverse resonance problem. <i>Journal of Differential Equations</i> , 2012, 252, 2823-2844.	2.2	9
58	Sharp eigenvalue asymptotics for fourth order operators on the circle. <i>Journal of Mathematical Analysis and Applications</i> , 2014, 417, 804-818.	1.0	9
59	Schrödinger operators with guided potentials on periodic graphs. <i>Proceedings of the American Mathematical Society</i> , 2017, 145, 4869-4883.	0.8	9
60	The Marchenko-Ostrovski mapping and the trace formula for the Camassa-Holm equation. <i>Journal of Functional Analysis</i> , 2003, 203, 494-518.	1.4	8
61	The Lyapunov function for Schrödinger operators with a periodic potential. <i>Journal of Mathematical Analysis and Applications</i> , 2003, 283, 103-121.	1.4	8
62	Inverse Problem for the Discrete 1D Schrödinger Operator with Small Periodic Potentials. <i>Communications in Mathematical Physics</i> , 2006, 261, 673-692.	2.2	8
63	The inverse Sturm-Liouville problem with mixed boundary conditions. <i>St Petersburg Mathematical Journal</i> , 2010, 21, 761-761.	0.4	8
64	Conformal spectral theory for the monodromy matrix. <i>Transactions of the American Mathematical Society</i> , 2010, 362, 3435-3462.	0.9	8
65	Periodic Jacobi operator with finitely supported perturbation on the half-lattice. <i>Inverse Problems</i> , 2011, 27, 115003.	2.0	8
66	Resonances for periodic Jacobi operators with finitely supported perturbations. <i>Journal of Mathematical Analysis and Applications</i> , 2012, 388, 1239-1253.	1.0	8
67	Resonances for Euler-Bernoulli operator on the half-line. <i>Journal of Differential Equations</i> , 2017, 263, 534-566.	2.2	8
68	Laplacians on periodic graphs with guides. <i>Journal of Mathematical Analysis and Applications</i> , 2017, 455, 1444-1469.	1.0	7
69	Resonances of third order differential operators. <i>Journal of Mathematical Analysis and Applications</i> , 2019, 478, 82-107.	1.0	7
70	Parametrization of periodic weighted operators in terms of gap lengths. <i>Inverse Problems</i> , 2000, 16, 1839-1860.	2.0	6
71	Inverse Spectral Problem for the Periodic Camassa-Holm Equation. <i>Journal of Nonlinear Mathematical Physics</i> , 2004, 11, 499.	1.3	6
72	Spectral Asymptotics of the Harmonic Oscillator Perturbed by Bounded Potentials. <i>Annales Henri Poincaré</i> , 2005, 6, 747-789.	1.7	6

#	ARTICLE	IF	CITATIONS
73	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
74	Schrödinger Operator on the Zigzag Half-Nanotube in Magnetic Field. Mathematical Modelling of Natural Phenomena, 2010, 5, 175-197.	2.4	6
75	Trace formulas for Schrödinger operators with complex potentials on a half line. Letters in Mathematical Physics, 2020, 110, 1-20.	1.1	6
76	Scattering on periodic metric graphs. Reviews in Mathematical Physics, 2020, 32, 2050024.	1.7	6
77	Some properties of the quasimomentum of the one-dimensional Hill operator. Journal of Soviet Mathematics, 1992, 62, 3081-3087.	0.0	5
78	A priori estimates for the Hill and Dirac operators. Russian Journal of Mathematical Physics, 2008, 15, 320-331.	1.5	5
79	A magnetic Schrödinger operator on a periodic graph. Sbornik Mathematics, 2010, 201, 1403-1448.	0.6	5
80	Sharp asymptotics of the quasimomentum. Asymptotic Analysis, 2012, 80, 269-287.	0.5	5
81	A third order operator with periodic coefficients on the real line. St Petersburg Mathematical Journal, 2014, 25, 713-734.	0.4	5
82	Dubrovin equation for periodic Dirac operator on the half-line. Applicable Analysis, 2020, , 1-29.	1.3	5
83	Inverse resonance scattering for Dirac operators on the half-line. Analysis and Mathematical Physics, 2021, 11, 1.	1.3	5
84	Spectrum of the monodromy operator of the Schrödinger operator with a potential which is periodic with respect to time. Journal of Soviet Mathematics, 1983, 21, 715-717.	0.0	4
85	Inverse resonance scattering for Jacobi operators. Russian Journal of Mathematical Physics, 2011, 18, 427-439.	1.5	4
86	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
87	Trace formula for fourth order operators on the circle. Dynamics of Partial Differential Equations, 2013, 10, 343-352.	0.9	4
88	Estimates of bands for Laplacians on periodic equilateral metric graphs. Proceedings of the American Mathematical Society, 2015, 144, 1605-1617.	0.8	4
89	Trace formulas for a discrete Schrödinger operator. Functional Analysis and Its Applications, 2017, 51, 225-229.	0.4	4
90	ON THE EIGENFUNCTIONS OF THE MONODROMY OPERATOR OF THE SCHRÖDINGER OPERATOR WITH A TIME-PERIODIC POTENTIAL. Sbornik: Mathematics, 1985, 52, 423-438.	0.2	3

#	ARTICLE	IF	CITATIONS
91	Theory of potential scattering, taking into account spatial anisotropy. Journal of Soviet Mathematics, 1986, 34, 2040-2050.	0.0	3
92	Diffusion in layered media at large times. Theoretical and Mathematical Physics(Russian Federation), 1994, 98, 72-99.	0.9	3
93	Marchenko-Ostrovski mappings for periodic Jacobi matrices. Russian Journal of Mathematical Physics, 2007, 14, 448-452.	1.5	3
94	Resonances for the radial Dirac operators. Asymptotic Analysis, 2015, 93, 327-370.	0.5	3
95	Resonances of 4th order differential operators. Asymptotic Analysis, 2019, 111, 137-177.	0.5	3
96	Trace Formulas for Schrödinger Operators with Complex Potentials. Russian Journal of Mathematical Physics, 2020, 27, 82-98.	1.5	3
97	Trace formulas for fourth order operators on unit interval, II. Dynamics of Partial Differential Equations, 2015, 12, 217-239.	0.9	3
98	Trace formulas for Schrödinger operators on periodic graphs. Journal of Mathematical Analysis and Applications, 2022, 508, 125888.	1.0	3
99	Two-sided estimates of total bandwidth for Schrödinger operators on periodic graphs. Communications on Pure and Applied Analysis, 2022, 21, 1691.	0.8	3
100	Factorization of three-particle S matrix at high energies. Theoretical and Mathematical Physics(Russian Federation), 1985, 63, 584-588.	0.9	2
101	Estimates for periodic Zakharov-Shabat operators. Journal of Differential Equations, 2010, 249, 76-93.	2.2	2
102	KdV Hamiltonian as a Function of Actions. Journal of Dynamical and Control Systems, 2016, 22, 661-682.	0.8	2
103	Global transformations preserving Sturm-Liouville spectral data. Russian Journal of Mathematical Physics, 2017, 24, 51-68.	1.5	2
104	New Trace Formulas in Terms of Resonances for Three-Dimensional Schrödinger Operators. Russian Journal of Mathematical Physics, 2018, 25, 27-43.	1.5	2
105	Eigenvalue bounds for Stark operators with complex potentials. Transactions of the American Mathematical Society, 2019, 373, 971-1008.	0.9	2
106	Inverse spectral theory and the Minkowski problem for the surface of revolution. Dynamics of Partial Differential Equations, 2017, 14, 321-341.	0.9	2
107	Eigenvalues of Schrödinger operators on finite and infinite intervals. Mathematische Nachrichten, 2021, 294, 2188-2199.	0.8	2
108	Traces on surfaces for function classes with dominant mixed derivatives. Journal of Soviet Mathematics, 1978, 10, 73-86.	0.0	1

#	ARTICLE	IF	CITATIONS
109	Resonance scattering in a pair of spaces. Theoretical and Mathematical Physics(Russian Federation), 1987, 70, 304-312.	0.9	1
110	The Inverse Problem for a Discrete Periodic Schrodinger Operator. Journal of Mathematical Sciences, 2006, 134, 2292-2294.	0.4	1
111	Hamiltonian and Small Action Variables for dNLS on the Circle. International Mathematics Research Notices, 2013, 2013, 2203-2239.	1.0	1
112	Inverse Sturm-Liouville problems for non-Borg conditions. Journal of Inverse and Ill-Posed Problems, 2019, 27, 445-452.	1.0	1
113	Inverse Spectral Theory for Perturbed Torus. Journal of Geometric Analysis, 2020, 30, 4427-4452.	1.0	1
114	Hill's operators with the potentials analytically dependent on energy. Journal of Differential Equations, 2021, 271, 638-664.	2.2	1
115	Asymptotics and estimates for the discrete spectrum of the Schrödinger operator on a discrete periodic graph. St Petersburg Mathematical Journal, 2021, 32, 9-29.	0.4	1
116	Eigenvalues of periodic difference operators on lattice octants. Journal of Mathematical Analysis and Applications, 2021, 500, 125138.	1.0	1
117	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
118	Inverse resonance scattering on rotationally symmetric manifolds. Asymptotic Analysis, 2021, 125, 347-363.	0.5	1
119	Scattering problem for a slowly decreasing potential that is periodically dependent on time. Journal of Soviet Mathematics, 1983, 21, 333-334.	0.0	0
120	Dynamic stark effect in a three-particle system. Theoretical and Mathematical Physics(Russian) Tj ETQqO O O rgBT /Overlock 10 Tf 50 302	0.9	0
121	Scattering on an anisotropic potential in a constant electric field. Journal of Mathematical Sciences, 1998, 91, 2768-2775.	0.4	0
122	REMARK ON ESTIMATE OF A POTENTIAL IN TERMS OF EIGENVALUES OF THE STURM-LIOUVILLE OPERATOR. Modern Physics Letters B, 2008, 22, 2177-2180.	1.9	0
123	Asymptotics of the S-matrix for perturbed Hill operators. Russian Journal of Mathematical Physics, 2014, 21, 46-54.	1.5	0
124	Eigenfunctions of Laplacians on periodic metric graphs. , 2016, , .		0
125	Trace formulas for the beam equation. , 2016, , .		0
126	Resonances for the beam equation. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
127	Lieb's Thirring type inequality for resonances. Bulletin of Mathematical Sciences, 2017, 7, 211-217.	0.7	0
128	Spectrum of Laplacians on periodic graphs with guides. , 2017, , .		0
129	Resonances of 4-th order differential operators on the line. , 2017, , .		0
130	Surface spectra of discrete Laplacians. , 2018, , .		0
131	Invariants and spectral estimates for Laplacians on periodic graphs. , 2018, , .		0
132	Third order operator for the good Boussinesq equation on the circle. , 2018, , .		0
133	Dislocation problem for the Dirac operator. , 2019, , .		0
134	Inverse Problems for Finite Vector-Valued Jacobi Operators. Functional Analysis and Its Applications, 2019, 53, 174-181.	0.4	0
135	Asymptotics of determinants of 4^{th} order operators at zero. Mathematische Nachrichten, 2020, 293, 210-225.	0.8	0
136	Schrödinger operators periodic in octants. Letters in Mathematical Physics, 2021, 111, 1.	1.1	0
137	Periodic Dirac operator with dislocation. Journal of Differential Equations, 2021, 296, 369-411.	2.2	0
138	Resonances for the Dirac Operator on the Half-Line. Functional Analysis and Its Applications, 2021, 55, 326-329.	0.4	0
139	Inverse resonance scattering for massless Dirac operators on the real line. Asymptotic Analysis, 2022, , 1-48.	0.5	0