Ari Laptev

List of Publications by Year
in descending order

50 papers	857 citations	687363 13 h-index	552781 26 g-index
51 all docs	51 docs citations	51 times ranked	256 citing authors

#	Article	IF	Citations
1	Inequalities involving Aharonov–Bohm magnetic potentials in dimensions 2 and 3. Reviews in Mathematical Physics, 2021, 33, 2150006.	1.7	3
2	On factorisation of a class of Schrödinger operators. Complex Variables and Elliptic Equations, 2021, 66, 1100-1107.	0.8	1
3	Sharp bounds for eigenvalues of biharmonic operators with complex potentials in low dimensions. Mathematische Nachrichten, 2021, 294, 1333-1349.	0.8	3
4	Spectral properties of the logarithmic Laplacian. Analysis and Mathematical Physics, 2021, 11, 1.	1.3	11
5	Eigenvalue bounds of mixed Steklov problems. Communications in Contemporary Mathematics, 2020, 22, 1950008.	1.2	5
6	Symmetry Results in Two-Dimensional Inequalities for Aharonov–Bohm Magnetic Fields. Communications in Mathematical Physics, 2020, 375, 2071-2087.	2.2	3
7	Lieb–Thirring constant on the sphere and on the torus. Journal of Functional Analysis, 2020, 279, 108784.	1.4	6
8	On the improvement of the Hardy inequality due to singular magnetic fields. Communications in Partial Differential Equations, 2020, 45, 1202-1212.	2.2	6
9	Complex eigenvalue bounds for a Schrödinger operator on the half line. Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni, 2020, 31, 1-13.	0.6	1
10	Weyl asymptotics for perturbed functional difference operators. Journal of Mathematical Physics, 2019, 60, .	1.1	2
11	Eigenvalues of the bilayer graphene operator with a complex valued potential. Analysis and Mathematical Physics, 2019, 9, 1535-1546.	1.3	2
12	Berezin–Li–Yau inequalities on domains on the sphere. Journal of Mathematical Analysis and Applications, 2019, 473, 1253-1269.	1.0	2
13	Interpolation Inequalities and Spectral Estimates for Magnetic Operators. Annales Henri Poincare, 2018, 19, 1439-1463.	1.7	3
14	Trace formulae for Schrödinger operators with complex-valued potentials on cubic lattices. Bulletin of Mathematical Sciences, 2018, 8, 453-475.	0.7	10
15	Magnetic rings. Journal of Mathematical Physics, 2018, 59, 051504.	1.1	6
16	Trace formulas for a discrete Schrödinger operator. Functional Analysis and Its Applications, 2017, 51, 225-229.	0.4	4
17	Finding Eigenvalues and Eigenfunctions of the Zaremba Problem for the Circle. Complex Analysis and Operator Theory, 2017, 11, 895-926.	0.6	4
18	A bound for the eigenvalue counting function for Krein–von Neumann and Friedrichs extensions. Advances in Mathematics, 2017, 304, 1108-1155.	1.1	4

#	Article	IF	Citations
19	On continuous and discrete Hardy inequalities. Journal of Spectral Theory, 2016, 6, 837-858.	0.8	8
20	On the number of eigenvalues of Schrödinger operators with complex potentials. Journal of the London Mathematical Society, 2016, 94, 377-390.	1.0	33
21	One-Dimensional Interpolation Inequalities, Carlson–Landau Inequalities, and Magnetic Schrödinger Operators. International Mathematics Research Notices, 2016, 2016, 1190-1222.	1.0	10
22	Weyl Type Asymptotics and Bounds for the Eigenvalues of Functional-Difference Operators for Mirror Curves. Geometric and Functional Analysis, 2016, 26, 288-305.	1.8	15
23	Sharp interpolation inequalities for discrete operators and applications. Bulletin of Mathematical Sciences, 2015, 5, 19-57.	0.7	0
24	Hardy inequalities with homogeneous weights. Journal of Functional Analysis, 2015, 268, 3278-3289.	1.4	12
25	Hardy inequalities for p-Laplacians with Robin boundary conditions. Nonlinear Analysis: Theory, Methods & Applications, 2015, 128, 365-379.	1.1	12
26	Eigenvalue Estimates for Non-Selfadjoint Dirac Operators on the Real Line. Annales Henri Poincare, 2014, 15, 707-736.	1.7	28
27	On Some Sharp Spectral Inequalities for Schrödinger Operators on Semiaxis. Communications in Mathematical Physics, 2014, 326, 531-541.	2.2	7
28	One-dimensional Gagliardo-Nirenberg-Sobolev inequalities: remarks on duality and flows. Journal of the London Mathematical Society, 2014, 90, 525-550.	1.0	32
29	Spectral estimates on the sphere. Analysis and PDE, 2014, 7, 435-460.	1.4	17
30	Spectral properties of Schrödinger operators on compact manifolds: Rigidity, flows, interpolation and spectral estimates. Comptes Rendus Mathematique, 2013, 351, 437-440.	0.3	10
31	On spectral estimates for two-dimensional Schrödinger operators. Journal of Spectral Theory, 2013, 3, 505-515.	0.8	12
32	On the Negative Spectrum of the Two-Dimensional Schrödinger Operator with Radial Potential. Communications in Mathematical Physics, 2012, 314, 229-241.	2.2	13
33	Hardy inequalities for Robin Laplacians. Journal of Functional Analysis, 2012, 262, 4972-4985.	1.4	19
34	Geometrical Versions of improved Berezin–Li–Yau Inequalities. Journal of Spectral Theory, 2011, 1, 87-109.	0.8	21
35	Inequalities between Dirichlet and Neumann Eigenvalues on the Heisenberg Group. International Mathematics Research Notices, 2010, 2010, 2889-2902.	1.0	5
36	Nina N. Uraltseva. On the occasion of her 75th birthday. Journal of Mathematical Sciences, 2009, 159, 1-3.	0.4	1

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37	Eigenvalue Estimates for Schrödinger Operators with Complex Potentials. Communications in Mathematical Physics, 2009, 292, 29-54.	2.2	69
38	Lieb–Thirring inequalities with improved constants. Journal of the European Mathematical Society, 2008, 10, 1121-1126.	1.4	50
39	Eigenvalue estimates for magnetic Schrödinger operators in domains. Proceedings of the American Mathematical Society, 2008, 136, 4245-4255.	0.8	7
40	Lieb–Thirring Inequalities for Schrödinger Operators with Complex-valued Potentials. Letters in Mathematical Physics, 2006, 77, 309-316.	1.1	65
41	Nonlinear eigenvalues and analytic hypoellipticity. Journal of Functional Analysis, 2004, 209, 425-443.	1.4	35
42	Generalized Hardy Inequality for the Magnetic Dirichlet Forms. Journal of Statistical Physics, 2004, 116, 507-521.	1.2	25
43	Sharp Lieb-Thirring inequalities in high dimensions. Acta Mathematica, 2000, 184, 87-111.	3.9	134
44	On the Lieb-Thirring conjecture for a class of potentials. , 1999, , 227-234.		7
45	Hardy inequalities for magnetic Dirichlet forms. , 1999, , 299-305.		49
46	The negative discrete spectrum of the operator $(-\Delta)^l - \alpha V$ in $L_2(R^d)$ for d even and $2l \geq d$ in $L_2(R^d)$ for d even and $2l \geq d$. Arkiv for Matematik, 1997, 35, 87-126.	0.5	11
47	Discrete spectrum of the perturbed Dirac operator. Arkiv for Matematik, 1994, 32, 13-32.	0.5	17
48	Asymptotics of the negative discrete spectrum of a class of Schrödinger operators with large coupling constant. Proceedings of the American Mathematical Society, 1993, 119, 481-488.	0.8	3
49	Recent results on Lieb-Thirring inequalities. Journées Équations Aux Dérivées Partielles, 0, , 1-14.	0.2	48
50	On a Conjecture by Hundertmark and Simon. Annales Henri Poincare, 0, , .	1.7	0