

Ari Laptev

List of Publications by Year in descending order

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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	Sharp Lieb-Thirring inequalities in high dimensions. <i>Acta Mathematica</i> , 2000, 184, 87-111.	3.9	134
2	Eigenvalue Estimates for Schrödinger Operators with Complex Potentials. <i>Communications in Mathematical Physics</i> , 2009, 292, 29-54.	2.2	69
3	Lieb-Thirring Inequalities for Schrödinger Operators with Complex-valued Potentials. <i>Letters in Mathematical Physics</i> , 2006, 77, 309-316.	1.1	65
4	Lieb-Thirring inequalities with improved constants. <i>Journal of the European Mathematical Society</i> , 2008, 10, 1121-1126.	1.4	50
5	Hardy inequalities for magnetic Dirichlet forms. , 1999, , 299-305.		49
6	Recent results on Lieb-Thirring inequalities. <i>Journal des Équations Aux Dérivées Partielles</i> , 0, , 1-14.	0.2	48
7	Nonlinear eigenvalues and analytic hypoellipticity. <i>Journal of Functional Analysis</i> , 2004, 209, 425-443.	1.4	35
8	On the number of eigenvalues of Schrödinger operators with complex potentials. <i>Journal of the London Mathematical Society</i> , 2016, 94, 377-390.	1.0	33
9	One-dimensional Gagliardo-Nirenberg-Sobolev inequalities: remarks on duality and flows. <i>Journal of the London Mathematical Society</i> , 2014, 90, 525-550.	1.0	32
10	Eigenvalue Estimates for Non-Selfadjoint Dirac Operators on the Real Line. <i>Annales Henri Poincaré</i> , 2014, 15, 707-736.	1.7	28
11	Generalized Hardy Inequality for the Magnetic Dirichlet Forms. <i>Journal of Statistical Physics</i> , 2004, 116, 507-521.	1.2	25
12	Geometrical Versions of improved Berezin-Yau Inequalities. <i>Journal of Spectral Theory</i> , 2011, 1, 87-109.	0.8	21
13	Hardy inequalities for Robin Laplacians. <i>Journal of Functional Analysis</i> , 2012, 262, 4972-4985.	1.4	19
14	Discrete spectrum of the perturbed Dirac operator. <i>Arkiv for Matematik</i> , 1994, 32, 13-32.	0.5	17
15	Spectral estimates on the sphere. <i>Analysis and PDE</i> , 2014, 7, 435-460.	1.4	17
16	Weyl Type Asymptotics and Bounds for the Eigenvalues of Functional-Difference Operators for Mirror Curves. <i>Geometric and Functional Analysis</i> , 2016, 26, 288-305.	1.8	15
17	On the Negative Spectrum of the Two-Dimensional Schrödinger Operator with Radial Potential. <i>Communications in Mathematical Physics</i> , 2012, 314, 229-241.	2.2	13
18	On spectral estimates for two-dimensional Schrödinger operators. <i>Journal of Spectral Theory</i> , 2013, 3, 505-515.	0.8	12

#	ARTICLE	IF	CITATIONS
19	Hardy inequalities with homogeneous weights. <i>Journal of Functional Analysis</i> , 2015, 268, 3278-3289.	1.4	12
20	Hardy inequalities for p -Laplacians with Robin boundary conditions. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2015, 128, 365-379.	1.1	12
21	The negative discrete spectrum of the operator $(-\Delta, f ^{-1} \pm V)$ in $L^2(\mathbb{R}^d)$ for d even and $2 a \leq d$ in $L^2(\mathbb{R}^d)$ for d even and $2 a \leq d$. <i>Arkiv for Matematik</i> , 1997, 35, 87-126.	0.5	11
22	Spectral properties of the logarithmic Laplacian. <i>Analysis and Mathematical Physics</i> , 2021, 11, 1.	1.3	11
23	Spectral properties of Schrödinger operators on compact manifolds: Rigidity, flows, interpolation and spectral estimates. <i>Comptes Rendus Mathématique</i> , 2013, 351, 437-440.	0.3	10
24	One-Dimensional Interpolation Inequalities, Carlson's Landau Inequalities, and Magnetic Schrödinger Operators. <i>International Mathematics Research Notices</i> , 2016, 2016, 1190-1222.	1.0	10
25	Trace formulae for Schrödinger operators with complex-valued potentials on cubic lattices. <i>Bulletin of Mathematical Sciences</i> , 2018, 8, 453-475.	0.7	10
26	On continuous and discrete Hardy inequalities. <i>Journal of Spectral Theory</i> , 2016, 6, 837-858.	0.8	8
27	Eigenvalue estimates for magnetic Schrödinger operators in domains. <i>Proceedings of the American Mathematical Society</i> , 2008, 136, 4245-4255.	0.8	7
28	On Some Sharp Spectral Inequalities for Schrödinger Operators on Semiaxis. <i>Communications in Mathematical Physics</i> , 2014, 326, 531-541.	2.2	7
29	On the Lieb-Thirring conjecture for a class of potentials. , 1999, , 227-234.		7
30	Magnetic rings. <i>Journal of Mathematical Physics</i> , 2018, 59, 051504.	1.1	6
31	Lieb's Thirring constant on the sphere and on the torus. <i>Journal of Functional Analysis</i> , 2020, 279, 108784.	1.4	6
32	On the improvement of the Hardy inequality due to singular magnetic fields. <i>Communications in Partial Differential Equations</i> , 2020, 45, 1202-1212.	2.2	6
33	Inequalities between Dirichlet and Neumann Eigenvalues on the Heisenberg Group. <i>International Mathematics Research Notices</i> , 2010, 2010, 2889-2902.	1.0	5
34	Eigenvalue bounds of mixed Steklov problems. <i>Communications in Contemporary Mathematics</i> , 2020, 22, 1950008.	1.2	5
35	Trace formulas for a discrete Schrödinger operator. <i>Functional Analysis and Its Applications</i> , 2017, 51, 225-229.	0.4	4
36	Finding Eigenvalues and Eigenfunctions of the Zaremba Problem for the Circle. <i>Complex Analysis and Operator Theory</i> , 2017, 11, 895-926.	0.6	4

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37	A bound for the eigenvalue counting function for Kreinâ€“von Neumann and Friedrichs extensions. <i>Advances in Mathematics</i> , 2017, 304, 1108-1155.	1.1	4
38	Asymptotics of the negative discrete spectrum of a class of SchrÃ¶dinger operators with large coupling constant. <i>Proceedings of the American Mathematical Society</i> , 1993, 119, 481-488.	0.8	3
39	Interpolation Inequalities and Spectral Estimates for Magnetic Operators. <i>Annales Henri Poincare</i> , 2018, 19, 1439-1463.	1.7	3
40	Symmetry Results in Two-Dimensional Inequalities for Aharonovâ€“Bohm Magnetic Fields. <i>Communications in Mathematical Physics</i> , 2020, 375, 2071-2087.	2.2	3
41	Inequalities involving Aharonovâ€“Bohm magnetic potentials in dimensions 2 and 3. <i>Reviews in Mathematical Physics</i> , 2021, 33, 2150006.	1.7	3
42	Sharp bounds for eigenvalues of biharmonic operators with complex potentials in low dimensions. <i>Mathematische Nachrichten</i> , 2021, 294, 1333-1349.	0.8	3
43	Weyl asymptotics for perturbed functional difference operators. <i>Journal of Mathematical Physics</i> , 2019, 60, .	1.1	2
44	Eigenvalues of the bilayer graphene operator with a complex valued potential. <i>Analysis and Mathematical Physics</i> , 2019, 9, 1535-1546.	1.3	2
45	Berezinâ€“Liâ€“Yau inequalities on domains on the sphere. <i>Journal of Mathematical Analysis and Applications</i> , 2019, 473, 1253-1269.	1.0	2
46	Nina N. Uraltseva. On the occasion of her 75th birthday. <i>Journal of Mathematical Sciences</i> , 2009, 159, 1-3.	0.4	1
47	Complex eigenvalue bounds for a SchrÃ¶dinger operator on the half line. <i>Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni</i> , 2020, 31, 1-13.	0.6	1
48	On factorisation of a class of SchrÃ¶dinger operators. <i>Complex Variables and Elliptic Equations</i> , 2021, 66, 1100-1107.	0.8	1
49	Sharp interpolation inequalities for discrete operators and applications. <i>Bulletin of Mathematical Sciences</i> , 2015, 5, 19-57.	0.7	0
50	On a Conjecture by Hundertmark and Simon. <i>Annales Henri Poincare</i> , 0, , .	1.7	0