

# David Damanik

## List of Publications by Year in descending order

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107  
papers

1,778  
citations

257450

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361022

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109  
all docs

109  
docs citations

109  
times ranked

334  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Rotation Number for Almost Periodic Schrödinger Operators with $\delta$ -Potentials. Journal of Dynamics and Differential Equations, 2022, 34, 155-177.	1.9	1
2	Must the Spectrum of a Random Schrödinger Operator Contain an Interval?. Communications in Mathematical Physics, 2022, 393, 1583-1613.	2.2	4
3	Schrödinger Operators Generated by Locally Constant Functions on the Fibonacci Subshift. Annales Henri Poincare, 2021, 22, 1459-1498.	1.7	1
4	Multidimensional Schrödinger operators whose spectrum features a half-line and a Cantor set. Journal of Functional Analysis, 2021, 280, 108911.	1.4	3
5	Random Hamiltonians with arbitrary point interactions in one dimension. Journal of Differential Equations, 2021, 282, 104-126.	2.2	1
6	Localization for Anderson models on metric and discrete tree graphs. Mathematische Annalen, 2020, 376, 1337-1393.	1.4	4
7	Limit-periodic Schrödinger operators with a discontinuous Lyapunov exponent. Journal of Functional Analysis, 2020, 279, 108565.	1.4	1
8	Spectral Properties of Limit-Periodic Operators. , 2020, , 382-444.		1
9	Generic spectral results for CMV matrices with dynamically defined Verblunsky coefficients. Journal of Functional Analysis, 2020, 279, 108803.	1.4	5
10	Zero Measure and Singular Continuous Spectra for Quantum Graphs. Annales Henri Poincare, 2020, 21, 2167-2191.	1.7	5
11	Positive Lyapunov exponents and a Large Deviation Theorem for continuum Anderson models, briefly. Journal of Functional Analysis, 2019, 277, 3179-3186.	1.4	5
12	Multidimensional Almost-Periodic Schrödinger Operators with Cantor Spectrum. Annales Henri Poincare, 2019, 20, 1393-1402.	1.7	6
13	Localization for the one-dimensional Anderson model via positivity and large deviations for the Lyapunov exponent. Transactions of the American Mathematical Society, 2019, 372, 3619-3667.	0.9	25
14	Anderson localization for quasi-periodic CMV matrices and quantum walks. Journal of Functional Analysis, 2019, 276, 1978-2006.	1.4	9
15	Anderson localization for radial tree graphs with random branching numbers. Journal of Functional Analysis, 2019, 277, 418-433.	1.4	2
16	Spectral transitions for the square Fibonacci Hamiltonian. Journal of Spectral Theory, 2018, 8, 1487-1507.	0.8	3
17	Homogeneity of the spectrum for quasi-periodic Schrödinger operators. Journal of the European Mathematical Society, 2018, 20, 3073-3111.	1.4	8
18	Limit-periodic Schrödinger operators with Lipschitz continuous IDS. Proceedings of the American Mathematical Society, 2018, 147, 1531-1539.	0.8	3

#	ARTICLE	IF	CITATIONS
19	Almost periodicity in time of solutions of the KdV equation. Duke Mathematical Journal, 2018, 167, .	1.5	13
20	Schrödinger operators with dynamically defined potentials. Ergodic Theory and Dynamical Systems, 2017, 37, 1681-1764.	0.6	85
21	The isospectral torus of quasi-periodic Schrödinger operators via periodic approximations. Inventiones Mathematicae, 2017, 207, 895-980.	2.5	5
22	Limit-periodic continuum Schrödinger operators with zero measure Cantor spectrum. Journal of Spectral Theory, 2017, 7, 1101-1118.	0.8	11
23	Spectral Structures and Topological Methods in Mathematical Quasicrystals. Oberwolfach Reports, 2017, 14, 2781-2845.	0.0	0
24	On the existence and uniqueness of global solutions for the KdV equation with quasi-periodic initial data. Journal of the American Mathematical Society, 2016, 29, 825-856.	3.9	16
25	Spreading estimates for quantum walks on the integer lattice via power-law bounds on transfer matrices. Journal Des Mathematiques Pures Et Appliquees, 2016, 105, 293-341.	1.6	21
26	An extension of the Kunz–Souillard approach to localization in one dimension and applications to almost-periodic Schrödinger operators. Advances in Mathematics, 2016, 297, 149-173.	1.1	8
27	Quantum intermittency for sparse CMV matrices with an application to quantum walks on the half-line. Journal of Approximation Theory, 2016, 208, 59-84.	0.8	7
28	On anomalous Lieb–Robinson bounds for the Fibonacci XY chain. Journal of Spectral Theory, 2016, 6, 601-628.	0.8	4
29	The spectrum of a Schrödinger operator with small quasi-periodic potential is homogeneous. Journal of Spectral Theory, 2016, 6, 415-427.	0.8	11
30	A multi-scale analysis scheme on Abelian groups with an application to operators dual to Hill’s equation. Transactions of the American Mathematical Society, 2016, 369, 1689-1755.	0.9	3
31	Open Problems and Conjectures Related to the Theory of Mathematical Quasicrystals. Arnold Mathematical Journal, 2016, 2, 579-592.	0.4	4
32	The Fibonacci Hamiltonian. Inventiones Mathematicae, 2016, 206, 629-692.	2.5	32
33	Counterexamples to the Kotani–Last conjecture for continuum Schrödinger operators via character-automorphic Hardy spaces. Advances in Mathematics, 2016, 293, 738-781.	1.1	7
34	WHAT IS...Aperiodic Order?. Notices of the American Mathematical Society, 2016, 63, 647-650.	0.2	5
35	Characterizations of uniform hyperbolicity and spectra of CMV matrices. Discrete and Continuous Dynamical Systems - Series S, 2016, 9, 1009-1023.	1.1	10
36	Dynamics of unitary operators. Journal of Fractal Geometry, 2015, 1, 391-425.	0.7	21

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37	Transport exponents of Sturmian Hamiltonians. <i>Journal of Functional Analysis</i> , 2015, 269, 1404-1440.	1.4	8
38	Almost ballistic transport for the weakly coupled Fibonacci Hamiltonian. <i>Israel Journal of Mathematics</i> , 2015, 206, 109-126.	0.8	5
39	Almost Sure Frequency Independence of the Dimension of the Spectrum of Sturmian Hamiltonians. <i>Communications in Mathematical Physics</i> , 2015, 337, 1241-1253.	2.2	1
40	Quantum Dynamics of Periodic and Limit-Periodic Jacobi and Block Jacobi Matrices with Applications to Some Quantum Many Body Problems. <i>Communications in Mathematical Physics</i> , 2015, 337, 1535-1561.	2.2	31
41	Absolutely continuous convolutions of singular measures and an application to the square Fibonacci Hamiltonian. <i>Duke Mathematical Journal</i> , 2015, 164, .	1.5	15
42	Uniform Hyperbolicity for Szegő Cocycles and Applications to Random CMV Matrices and the Ising Model. <i>International Mathematics Research Notices</i> , 2015, 2015, 7110-7129.	1.0	10
43	Spectral Properties of Schrödinger Operators Arising in the Study of Quasicrystals. <i>Progress in Mathematics</i> , 2015, , 307-370.	0.3	21
44	New Anomalous Lieb-Robinson Bounds in Quasiperiodic $X$ Chains. <i>Physical Review Letters</i> , 2014, 113, 127202.	7.8	19
45	Continuum Schrödinger Operators Associated With Aperiodic Subshifts. <i>Annales Henri Poincaré</i> , 2014, 15, 1123-1144.	1.7	13
46	On the inverse spectral problem for the quasi-periodic Schrödinger equation. <i>Publications Mathématiques De L'Institut Des Hautes Etudes Scientifiques</i> , 2014, 119, 217-401.	4.3	16
47	Singular Density of States Measure for Subshift and Quasi-Periodic Schrödinger Operators. <i>Communications in Mathematical Physics</i> , 2014, 330, 469-498.	2.2	14
48	Orthogonal Polynomials on the Unit Circle with Fibonacci Verblunsky Coefficients, II. Applications. <i>Journal of Statistical Physics</i> , 2013, 153, 339-362.	1.2	19
49	Hölder Continuity of the Integrated Density of States for the Fibonacci Hamiltonian. <i>Communications in Mathematical Physics</i> , 2013, 323, 497-515.	2.2	9
50	Orthogonal polynomials on the unit circle with Fibonacci Verblunsky coefficients, I. The essential support of the measure. <i>Journal of Approximation Theory</i> , 2013, 173, 56-88.	0.8	15
51	Limit-periodic Schrödinger operators on $Z^d$ . Uniform localization. <i>Journal of Functional Analysis</i> , 2013, 265, 435-446.	1.4	7
52	The Density of States Measure of the Weakly Coupled Fibonacci Hamiltonian. <i>Geometric and Functional Analysis</i> , 2012, 22, 976-989.	1.8	19
53	A continuum version of the Kunze-Souillard approach to localization in one dimension. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2011, 2011, .	0.9	0
54	Limit-periodic Schrödinger operators with uniformly localized eigenfunctions. <i>Journal D'Analyse Mathématique</i> , 2011, 115, 33-49.	0.8	15

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55	Spectral and Quantum Dynamical Properties of the Weakly Coupled Fibonacci Hamiltonian. <i>Communications in Mathematical Physics</i> , 2011, 305, 221-277.	2.2	53
56	Opening gaps in the spectrum of strictly ergodic Schrödinger operators. <i>Journal of the European Mathematical Society</i> , 2011, 14, 61-106.	1.4	27
57	Limit-periodic Schrödinger operators in the regime of positive Lyapunov exponents. <i>Journal of Functional Analysis</i> , 2010, 258, 4010-4025.	1.4	14
58	Spectral properties of limit-periodic Schrödinger operators. <i>Communications on Pure and Applied Analysis</i> , 2010, 10, 859-871.	0.8	19
59	A general description of quantum dynamical spreading over an orthonormal basis and applications to Schrödinger operators. <i>Discrete and Continuous Dynamical Systems</i> , 2010, 28, 1381-1412.	0.9	20
60	Hyperbolicity of the trace map for the weakly coupled Fibonacci Hamiltonian. <i>Nonlinearity</i> , 2009, 22, 123-143.	1.4	32
61	Quantum Dynamical Applications of Salem's Theorem. <i>Letters in Mathematical Physics</i> , 2009, 89, 13-19.	1.1	0
62	The repetition property for sequences on tori generated by polynomials or skew-shifts. <i>Israel Journal of Mathematics</i> , 2009, 174, 189-202.	0.8	4
63	Cantor spectrum for Schrödinger operators with potentials arising from generalized skew-shifts. <i>Duke Mathematical Journal</i> , 2009, 146, .	1.5	32
64	Almost Everything About the Fibonacci Operator. , 2009, , 149-159.		4
65	The spectrum of the weakly coupled Fibonacci Hamiltonian. <i>Electronic Research Announcements in Mathematical Sciences</i> , 2009, 16, 23-29.	0.6	12
66	Generic Continuous Spectrum for Ergodic Schrödinger Operators. <i>Communications in Mathematical Physics</i> , 2008, 283, 647-662.	2.2	14
67	Absolute continuity of the integrated density of states for the almost Mathieu operator with non-critical coupling. <i>Inventiones Mathematicae</i> , 2008, 172, 439-453.	2.5	36
68	Lyapunov exponents of continuous Schrödinger cocycles over irrational rotations. <i>Annali Di Matematica Pura Ed Applicata</i> , 2008, 187, 1-6.	1.0	7
69	Quantum dynamics via complex analysis methods: General upper bounds without time-averaging and tight lower bounds for the strongly coupled Fibonacci Hamiltonian. <i>Journal of Functional Analysis</i> , 2008, 255, 2872-2887.	1.4	20
70	Schrödinger operators with many bound states. <i>Duke Mathematical Journal</i> , 2007, 136, .	1.5	10
71	Upper bounds in quantum dynamics. <i>Journal of the American Mathematical Society</i> , 2007, 20, 799-828.	3.9	42
72	Uniform Szegő cocycles over strictly ergodic subshifts. <i>Journal of Approximation Theory</i> , 2007, 144, 133-138.	0.8	9

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73	Unbounded Jacobi matrices at critical coupling. <i>Journal of Approximation Theory</i> , 2007, 145, 221-236.	0.8	13
74	A condition of Boshernitzan and uniform convergence in the multiplicative ergodic theorem. <i>Duke Mathematical Journal</i> , 2006, 133, 95.	1.5	50
75	Zero-measure Cantor spectrum for Schrödinger operators with low-complexity potentials. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2006, 85, 671-686.	1.6	22
76	Verblunsky coefficients with Coulomb-type decay. <i>Journal of Approximation Theory</i> , 2006, 139, 257-268.	0.8	4
77	Lower Transport Bounds for One-dimensional Continuum Schrödinger Operators. <i>Mathematische Annalen</i> , 2006, 336, 361-389.	1.4	17
78	Generic Singular Spectrum For Ergodic Schrödinger Operators. <i>Duke Mathematical Journal</i> , 2005, 130, 393.	1.5	28
79	Dynamical upper bounds for one-dimensional quasicrystals. <i>Journal of Mathematical Analysis and Applications</i> , 2005, 303, 327-341.	1.0	19
80	Almost Everywhere Positivity of the Lyapunov Exponent for the Doubling Map. <i>Communications in Mathematical Physics</i> , 2005, 257, 287-290.	2.2	11
81	Schrödinger Operators with Few Bound States. <i>Communications in Mathematical Physics</i> , 2005, 258, 741-750.	2.2	14
82	Scaling estimates for solutions and dynamical lower bounds on wavepacket spreading. <i>Journal D'Analyse Mathematique</i> , 2005, 97, 103-131.	0.8	16
83	Ergodic Potentials With a Discontinuous Sampling Function Are Non-Deterministic. <i>Mathematical Research Letters</i> , 2005, 12, 187-192.	0.5	13
84	Half-line eigenfunction estimates and purely singular continuous spectrum of zero Lebesgue measure. <i>Forum Mathematicum</i> , 2004, 16, .	0.7	6
85	Half-line Schrödinger operators with no bound states. <i>Acta Mathematica</i> , 2004, 193, 31-72.	3.9	25
86	Localization for discrete one-dimensional random word models. <i>Journal of Functional Analysis</i> , 2004, 208, 423-445.	1.4	9
87	Power-law bounds on transfer matrices and quantum dynamics in one dimension. <i>Journal of Functional Analysis</i> , 2004, 216, 362-387.	1.4	21
88	Uniform spectral properties of one-dimensional quasicrystals, iv. quasi-sturmian potentials. <i>Journal D'Analyse Mathematique</i> , 2003, 90, 115-139.	0.8	14
89	Power-Law Bounds on Transfer Matrices and Quantum Dynamics in One Dimension. <i>Communications in Mathematical Physics</i> , 2003, 236, 513-534.	2.2	46
90	Powers in Sturmian sequences. <i>European Journal of Combinatorics</i> , 2003, 24, 377-390.	0.8	23

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91	Localization for one-dimensional, continuum, Bernoulli-Anderson models. Duke Mathematical Journal, 2002, 114, 59.	1.5	60
92	The Index of Sturmian Sequences. European Journal of Combinatorics, 2002, 23, 23-29.	0.8	43
93	Some High-Complexity Hamiltonians with Purely Singular Continuous Spectrum. Annales Henri Poincare, 2002, 3, 99-105.	1.7	6
94	Lyapunov Exponents in Continuum Bernoulli-Anderson Models. , 2002, , 121-130.		4
95	Uniform Singular Continuous Spectrum for the Period Doubling Hamiltonian. Annales Henri Poincare, 2001, 2, 101-108.	1.7	16
96	Schrödinger operators with low-complexity potentials. Ferroelectrics, 2001, 250, 143-149.	0.6	3
97	Singular Continuous Spectrum for a Class of Substitution Hamiltonians II. Letters in Mathematical Physics, 2000, 54, 25-31.	1.1	21
98	Uniform Spectral Properties of One-Dimensional Quasicrystals, III. $\hat{\mu}$ -Continuity. Communications in Mathematical Physics, 2000, 212, 191-204.	2.2	76
99	Uniform Spectral Properties of One-Dimensional Quasicrystals, II. The Lyapunov Exponent. Letters in Mathematical Physics, 1999, 50, 245-257.	1.1	31
100	Uniform Spectral Properties of One-Dimensional Quasicrystals, I. Absence of Eigenvalues. Communications in Mathematical Physics, 1999, 207, 687-696.	2.2	70
101	Singular Continuous Spectrum for a Class of Substitution Hamiltonians. Letters in Mathematical Physics, 1998, 46, 303-311.	1.1	25
102	$\hat{\mu}$ -Continuity Properties of One-Dimensional Quasicrystals. Communications in Mathematical Physics, 1998, 192, 169-182.	2.2	40
103	Singular Continuous Spectrum for the Period Doubling Hamiltonian on a Set of Full Measure. Communications in Mathematical Physics, 1998, 196, 477-483.	2.2	26
104	Subordinacy theory for extended CMV matrices. Science China Mathematics, 0, , 1.	1.7	1
105	Simon's OPUC Hausdorff dimension conjecture. Mathematische Annalen, 0, , 1.	1.4	0
106	Absolutely continuous spectrum for CMV matrices with small quasi-periodic Verblunsky coefficients. , 0, , .		0
107	Absence of absolutely continuous spectrum for generic quasi-periodic Schrödinger operators on the real line. Israel Journal of Mathematics, 0, , 1.	0.8	0