

David Damanik

List of Publications by Year in descending order

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107
papers

1,778
citations

257450

24
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361022

35
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109
all docs

109
docs citations

109
times ranked

334
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Schrödinger operators with dynamically defined potentials. Ergodic Theory and Dynamical Systems, 2017, 37, 1681-1764. | 0.6 | 85 |
| 2 | Uniform Spectral Properties of One-Dimensional Quasicrystals, III. ϵ -Continuity. Communications in Mathematical Physics, 2000, 212, 191-204. | 2.2 | 76 |
| 3 | Uniform Spectral Properties of One-Dimensional Quasicrystals, I. Absence of Eigenvalues. Communications in Mathematical Physics, 1999, 207, 687-696. | 2.2 | 70 |
| 4 | Localization for one-dimensional, continuum, Bernoulli-Anderson models. Duke Mathematical Journal, 2002, 114, 59. | 1.5 | 60 |
| 5 | Spectral and Quantum Dynamical Properties of the Weakly Coupled Fibonacci Hamiltonian. Communications in Mathematical Physics, 2011, 305, 221-277. | 2.2 | 53 |
| 6 | A condition of Boshernitzan and uniform convergence in the multiplicative ergodic theorem. Duke Mathematical Journal, 2006, 133, 95. | 1.5 | 50 |
| 7 | Power-Law Bounds on Transfer Matrices and Quantum Dynamics in One Dimension. Communications in Mathematical Physics, 2003, 236, 513-534. | 2.2 | 46 |
| 8 | The Index of Sturmian Sequences. European Journal of Combinatorics, 2002, 23, 23-29. | 0.8 | 43 |
| 9 | Upper bounds in quantum dynamics. Journal of the American Mathematical Society, 2007, 20, 799-828. | 3.9 | 42 |
| 10 | ϵ -Continuity Properties of One-Dimensional Quasicrystals. Communications in Mathematical Physics, 1998, 192, 169-182. | 2.2 | 40 |
| 11 | Absolute continuity of the integrated density of states for the almost Mathieu operator with non-critical coupling. Inventiones Mathematicae, 2008, 172, 439-453. | 2.5 | 36 |
| 12 | Hyperbolicity of the trace map for the weakly coupled Fibonacci Hamiltonian. Nonlinearity, 2009, 22, 123-143. | 1.4 | 32 |
| 13 | Cantor spectrum for Schrödinger operators with potentials arising from generalized skew-shifts. Duke Mathematical Journal, 2009, 146, . | 1.5 | 32 |
| 14 | The Fibonacci Hamiltonian. Inventiones Mathematicae, 2016, 206, 629-692. | 2.5 | 32 |
| 15 | Uniform Spectral Properties of One-Dimensional Quasicrystals, II. The Lyapunov Exponent. Letters in Mathematical Physics, 1999, 50, 245-257. | 1.1 | 31 |
| 16 | Quantum Dynamics of Periodic and Limit-Periodic Jacobi and Block Jacobi Matrices with Applications to Some Quantum Many Body Problems. Communications in Mathematical Physics, 2015, 337, 1535-1561. | 2.2 | 31 |
| 17 | Generic Singular Spectrum For Ergodic Schrödinger Operators. Duke Mathematical Journal, 2005, 130, 393. | 1.5 | 28 |
| 18 | Opening gaps in the spectrum of strictly ergodic Schrödinger operators. Journal of the European Mathematical Society, 2011, 14, 61-106. | 1.4 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | Singular Continuous Spectrum for a Class of Substitution Hamiltonians. Letters in Mathematical Physics, 1998, 46, 303-311. | 1.1 | 25 |
| 21 | Half-line Schrödinger operators with no bound states. Acta Mathematica, 2004, 193, 31-72. | 3.9 | 25 |
| 22 | 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 |
| 23 | Powers in Sturmian sequences. European Journal of Combinatorics, 2003, 24, 377-390. | 0.8 | 23 |
| 24 | Zero-measure Cantor spectrum for Schrödinger operators with low-complexity potentials. Journal Des Mathematiques Pures Et Appliquees, 2006, 85, 671-686. | 1.6 | 22 |
| 25 | Singular Continuous Spectrum for a Class of Substitution Hamiltonians II. Letters in Mathematical Physics, 2000, 54, 25-31. | 1.1 | 21 |
| 26 | Power-law bounds on transfer matrices and quantum dynamics in one dimension. II. Journal of Functional Analysis, 2004, 216, 362-387. | 1.4 | 21 |
| 27 | Dynamics of unitary operators. Journal of Fractal Geometry, 2015, 1, 391-425. | 0.7 | 21 |
| 28 | 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 |
| 29 | Spectral Properties of Schrödinger Operators Arising in the Study of Quasicrystals. Progress in Mathematics, 2015, , 307-370. | 0.3 | 21 |
| 30 | Quantum dynamics via complex analysis methods: General upper bounds without time-averaging and tight lower bounds for the strongly coupled Fibonacci Hamiltonian. Journal of Functional Analysis, 2008, 255, 2872-2887. | 1.4 | 20 |
| 31 | A general description of quantum dynamical spreading over an orthonormal basis and applications to Schrödinger operators. Discrete and Continuous Dynamical Systems, 2010, 28, 1381-1412. | 0.9 | 20 |
| 32 | Dynamical upper bounds for one-dimensional quasicrystals. Journal of Mathematical Analysis and Applications, 2005, 303, 327-341. | 1.0 | 19 |
| 33 | The Density of States Measure of the Weakly Coupled Fibonacci Hamiltonian. Geometric and Functional Analysis, 2012, 22, 976-989. | 1.8 | 19 |
| 34 | Orthogonal Polynomials on the Unit Circle with Fibonacci Verblunsky Coefficients, II. Applications. Journal of Statistical Physics, 2013, 153, 339-362. | 1.2 | 19 |
| 35 | New Anomalous Lieb-Robinson Bounds in Quasiperiodic X^Y Chains. Physical Review Letters, 2014, 113, 127202. | 7.8 | 19 |
| 36 | Spectral properties of limit-periodic Schrödinger operators. Communications on Pure and Applied Analysis, 2010, 10, 859-871. | 0.8 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Lower Transport Bounds for One-dimensional Continuum Schrödinger Operators. <i>Mathematische Annalen</i> , 2006, 336, 361-389. | 1.4 | 17 |
| 38 | Uniform Singular Continuous Spectrum for the Period Doubling Hamiltonian. <i>Annales Henri Poincare</i> , 2001, 2, 101-108. | 1.7 | 16 |
| 39 | Scaling estimates for solutions and dynamical lower bounds on wavepacket spreading. <i>Journal D'Analyse Mathématique</i> , 2005, 97, 103-131. | 0.8 | 16 |
| 40 | 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 |
| 41 | On the existence and uniqueness of global solutions for the KdV equation with quasi-periodic initial data. <i>Journal of the American Mathematical Society</i> , 2016, 29, 825-856. | 3.9 | 16 |
| 42 | Limit-periodic Schrödinger operators with uniformly localized eigenfunctions. <i>Journal D'Analyse Mathématique</i> , 2011, 115, 33-49. | 0.8 | 15 |
| 43 | 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 |
| 44 | Absolutely continuous convolutions of singular measures and an application to the square Fibonacci Hamiltonian. <i>Duke Mathematical Journal</i> , 2015, 164, . | 1.5 | 15 |
| 45 | Uniform spectral properties of one-dimensional quasicrystals, iv. quasi-sturmian potentials. <i>Journal D'Analyse Mathématique</i> , 2003, 90, 115-139. | 0.8 | 14 |
| 46 | Schrödinger Operators with Few Bound States. <i>Communications in Mathematical Physics</i> , 2005, 258, 741-750. | 2.2 | 14 |
| 47 | Generic Continuous Spectrum for Ergodic Schrödinger Operators. <i>Communications in Mathematical Physics</i> , 2008, 283, 647-662. | 2.2 | 14 |
| 48 | Limit-periodic Schrödinger operators in the regime of positive Lyapunov exponents. <i>Journal of Functional Analysis</i> , 2010, 258, 4010-4025. | 1.4 | 14 |
| 49 | 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 |
| 50 | Unbounded Jacobi matrices at critical coupling. <i>Journal of Approximation Theory</i> , 2007, 145, 221-236. | 0.8 | 13 |
| 51 | Continuum Schrödinger Operators Associated With Aperiodic Subshifts. <i>Annales Henri Poincare</i> , 2014, 15, 1123-1144. | 1.7 | 13 |
| 52 | Almost periodicity in time of solutions of the KdV equation. <i>Duke Mathematical Journal</i> , 2018, 167, . | 1.5 | 13 |
| 53 | Ergodic Potentials With a Discontinuous Sampling Function Are Non-Deterministic. <i>Mathematical Research Letters</i> , 2005, 12, 187-192. | 0.5 | 13 |
| 54 | The spectrum of the weakly coupled Fibonacci Hamiltonian. <i>Electronic Research Announcements in Mathematical Sciences</i> , 2009, 16, 23-29. | 0.6 | 12 |

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|----|--|-----|-----------|
| 55 | Almost Everywhere Positivity of the Lyapunov Exponent for the Doubling Map. <i>Communications in Mathematical Physics</i> , 2005, 257, 287-290. | 2.2 | 11 |
| 56 | The spectrum of a Schrödinger operator with small quasi-periodic potential is homogeneous. <i>Journal of Spectral Theory</i> , 2016, 6, 415-427. | 0.8 | 11 |
| 57 | Limit-periodic continuum Schrödinger operators with zero measure Cantor spectrum. <i>Journal of Spectral Theory</i> , 2017, 7, 1101-1118. | 0.8 | 11 |
| 58 | Schrödinger operators with many bound states. <i>Duke Mathematical Journal</i> , 2007, 136, . | 1.5 | 10 |
| 59 | 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 |
| 60 | Characterizations of uniform hyperbolicity and spectra of CMV matrices. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2016, 9, 1009-1023. | 1.1 | 10 |
| 61 | Localization for discrete one-dimensional random word models. <i>Journal of Functional Analysis</i> , 2004, 208, 423-445. | 1.4 | 9 |
| 62 | Uniform Szegő cocycles over strictly ergodic subshifts. <i>Journal of Approximation Theory</i> , 2007, 144, 133-138. | 0.8 | 9 |
| 63 | 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 |
| 64 | Anderson localization for quasi-periodic CMV matrices and quantum walks. <i>Journal of Functional Analysis</i> , 2019, 276, 1978-2006. | 1.4 | 9 |
| 65 | Transport exponents of Sturmian Hamiltonians. <i>Journal of Functional Analysis</i> , 2015, 269, 1404-1440. | 1.4 | 8 |
| 66 | An extension of the Kunz–Souillard approach to localization in one dimension and applications to almost-periodic Schrödinger operators. <i>Advances in Mathematics</i> , 2016, 297, 149-173. | 1.1 | 8 |
| 67 | Homogeneity of the spectrum for quasi-periodic Schrödinger operators. <i>Journal of the European Mathematical Society</i> , 2018, 20, 3073-3111. | 1.4 | 8 |
| 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 | Limit-periodic Schrödinger operators on \mathbb{Z} . <i>Journal of Functional Analysis</i> , 2013, 265, 435-446. | 1.4 | 7 |
| 70 | Quantum intermittency for sparse CMV matrices with an application to quantum walks on the half-line. <i>Journal of Approximation Theory</i> , 2016, 208, 59-84. | 0.8 | 7 |
| 71 | Counterexamples to the Kotani–Last conjecture for continuum Schrödinger operators via character-automorphic Hardy spaces. <i>Advances in Mathematics</i> , 2016, 293, 738-781. | 1.1 | 7 |
| 72 | Some High-Complexity Hamiltonians with Purely Singular Continuous Spectrum. <i>Annales Henri Poincaré</i> , 2002, 3, 99-105. | 1.7 | 6 |

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|----|--|-----|-----------|
| 73 | Half-line eigenfunction estimates and purely singular continuous spectrum of zero Lebesgue measure. Forum Mathematicum, 2004, 16, . | 0.7 | 6 |
| 74 | Multidimensional Almost-Periodic Schrödinger Operators with Cantor Spectrum. Annales Henri Poincare, 2019, 20, 1393-1402. | 1.7 | 6 |
| 75 | Almost ballistic transport for the weakly coupled Fibonacci Hamiltonian. Israel Journal of Mathematics, 2015, 206, 109-126. | 0.8 | 5 |
| 76 | The isospectral torus of quasi-periodic Schrödinger operators via periodic approximations. Inventiones Mathematicae, 2017, 207, 895-980. | 2.5 | 5 |
| 77 | Positive Lyapunov exponents and a Large Deviation Theorem for continuum Anderson models, briefly. Journal of Functional Analysis, 2019, 277, 3179-3186. | 1.4 | 5 |
| 78 | Generic spectral results for CMV matrices with dynamically defined Verblunsky coefficients. Journal of Functional Analysis, 2020, 279, 108803. | 1.4 | 5 |
| 79 | Zero Measure and Singular Continuous Spectra for Quantum Graphs. Annales Henri Poincare, 2020, 21, 2167-2191. | 1.7 | 5 |
| 80 | WHAT IS...Aperiodic Order?. Notices of the American Mathematical Society, 2016, 63, 647-650. | 0.2 | 5 |
| 81 | Verblunsky coefficients with Coulomb-type decay. Journal of Approximation Theory, 2006, 139, 257-268. | 0.8 | 4 |
| 82 | The repetition property for sequences on tori generated by polynomials or skew-shifts. Israel Journal of Mathematics, 2009, 174, 189-202. | 0.8 | 4 |
| 83 | On anomalous Lieb-Robinson bounds for the Fibonacci XY chain. Journal of Spectral Theory, 2016, 6, 601-628. | 0.8 | 4 |
| 84 | Open Problems and Conjectures Related to the Theory of Mathematical Quasicrystals. Arnold Mathematical Journal, 2016, 2, 579-592. | 0.4 | 4 |
| 85 | Localization for Anderson models on metric and discrete tree graphs. Mathematische Annalen, 2020, 376, 1337-1393. | 1.4 | 4 |
| 86 | Lyapunov Exponents in Continuum Bernoulli-Anderson Models. , 2002, , 121-130. | | 4 |
| 87 | Almost Everything About the Fibonacci Operator. , 2009, , 149-159. | | 4 |
| 88 | Must the Spectrum of a Random Schrödinger Operator Contain an Interval?. Communications in Mathematical Physics, 2022, 393, 1583-1613. | 2.2 | 4 |
| 89 | Schrödinger operators with low-complexity potentials. Ferroelectrics, 2001, 250, 143-149. | 0.6 | 3 |
| 90 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Spectral transitions for the square Fibonacci Hamiltonian. <i>Journal of Spectral Theory</i> , 2018, 8, 1487-1507. | 0.8 | 3 |
| 92 | Limit-periodic Schrödinger operators with Lipschitz continuous IDS. <i>Proceedings of the American Mathematical Society</i> , 2018, 147, 1531-1539. | 0.8 | 3 |
| 93 | Multidimensional Schrödinger operators whose spectrum features a half-line and a Cantor set. <i>Journal of Functional Analysis</i> , 2021, 280, 108911. | 1.4 | 3 |
| 94 | Anderson localization for radial tree graphs with random branching numbers. <i>Journal of Functional Analysis</i> , 2019, 277, 418-433. | 1.4 | 2 |
| 95 | 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 |
| 96 | Limit-periodic Schrödinger operators with a discontinuous Lyapunov exponent. <i>Journal of Functional Analysis</i> , 2020, 279, 108565. | 1.4 | 1 |
| 97 | Spectral Properties of Limit-Periodic Operators. , 2020, , 382-444. | | 1 |
| 98 | Schrödinger Operators Generated by Locally Constant Functions on the Fibonacci Subshift. <i>Annales Henri Poincaré</i> , 2021, 22, 1459-1498. | 1.7 | 1 |
| 99 | Random Hamiltonians with arbitrary point interactions in one dimension. <i>Journal of Differential Equations</i> , 2021, 282, 104-126. | 2.2 | 1 |
| 100 | The Rotation Number for Almost Periodic Schrödinger Operators with δ -Potentials. <i>Journal of Dynamics and Differential Equations</i> , 2022, 34, 155-177. | 1.9 | 1 |
| 101 | Subordinacy theory for extended CMV matrices. <i>Science China Mathematics</i> , 0, , 1. | 1.7 | 1 |
| 102 | Quantum Dynamical Applications of Salem's Theorem. <i>Letters in Mathematical Physics</i> , 2009, 89, 13-19. | 1.1 | 0 |
| 103 | A continuum version of the Kunz-Souillard approach to localization in one dimension. <i>Journal Fur Die Reine Und Angewandte Mathematik</i> , 2011, 2011, . | 0.9 | 0 |
| 104 | Spectral Structures and Topological Methods in Mathematical Quasicrystals. <i>Oberwolfach Reports</i> , 2017, 14, 2781-2845. | 0.0 | 0 |
| 105 | Simon's OPUC Hausdorff dimension conjecture. <i>Mathematische Annalen</i> , 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. <i>Israel Journal of Mathematics</i> , 0, , 1. | 0.8 | 0 |