

Pavel Exner

List of Publications by Year in descending order

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293
papers

6,136
citations

87723

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110170

64
g-index

315
all docs

315
docs citations

315
times ranked

837
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Soft quantum waveguides in three dimensions. <i>Journal of Mathematical Physics</i> , 2022, 63, . | 0.5 | 2 |
| 2 | Spectrum of periodic chain graphs with time-reversal non-invariant vertex coupling. <i>Annals of Physics</i> , 2022, 443, 168992. | 1.0 | 2 |
| 3 | Gap opening in two-dimensional periodic systems. <i>Communications in Contemporary Mathematics</i> , 2021, 23, 1950080. | 0.6 | 0 |
| 4 | Note on a Product Formula Related to Quantum Zeno Dynamics. <i>Annales Henri Poincare</i> , 2021, 22, 1669-1697. | 0.8 | 1 |
| 5 | Quantum Graphs with Vertices Violating the Time Reversal Symmetry. <i>Physics of Particles and Nuclei</i> , 2021, 52, 330-336. | 0.2 | 1 |
| 6 | Optimization of the lowest eigenvalue of a soft quantum ring. <i>Letters in Mathematical Physics</i> , 2021, 111, 1. | 0.5 | 2 |
| 7 | Magnetic field influence on the discrete spectrum of locally deformed leaky wires. <i>Reports on Mathematical Physics</i> , 2021, 88, 47-57. | 0.4 | 0 |
| 8 | Quantum graphs: Self-adjoint, and yet exhibiting a nontrivial PT-symmetry. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 416, 127669. | 0.9 | 3 |
| 9 | Ring chains with vertex coupling of a preferred orientation. <i>Reviews in Mathematical Physics</i> , 2021, 33, 2060005. | 0.7 | 11 |
| 10 | Singular Schrödinger operators and Robin billiards. <i>Afrika Matematika</i> , 2020, 31, 71-88. | 0.4 | 2 |
| 11 | Spectral optimization for strongly singular Schrödinger operators with a star-shaped interaction. <i>Letters in Mathematical Physics</i> , 2020, 110, 735-751. | 0.5 | 1 |
| 12 | Dirac Operators with a $\hat{\Gamma}$ -Shell Interaction. <i>Physics of Particles and Nuclei</i> , 2020, 51, 405-409. | 0.2 | 0 |
| 13 | Topological bulk-edge effects in quantum graph transport. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126390. | 0.9 | 5 |
| 14 | Spectral properties of soft quantum waveguides. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 355302. | 0.7 | 6 |
| 15 | Spectral Asymptotics of the Dirichlet Laplacian on a Generalized Parabolic Layer. <i>Integral Equations and Operator Theory</i> , 2020, 92, 1. | 0.4 | 2 |
| 16 | Spectral geometry in a rotating frame: Properties of the ground state. <i>Journal of Mathematical Analysis and Applications</i> , 2020, 489, 124130. | 0.5 | 0 |
| 17 | The Landau Hamiltonian with $\hat{\Gamma}$ -potentials supported on curves. <i>Reviews in Mathematical Physics</i> , 2020, 32, 2050010. | 0.7 | 6 |
| 18 | Spectral optimization for singular Schrödinger operators. <i>Operators and Matrices</i> , 2020, , 705-716. | 0.1 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Leaky Quantum Structures. Proceedings of the Steklov Institute of Mathematics, 2020, 311, 114-128. | 0.1 | 0 |
| 20 | Schrödinger Operators with a Switching Effect. Industrial and Applied Mathematics, 2020, , 13-31. | 0.3 | 0 |
| 21 | Spectral properties of spiral-shaped quantum waveguides. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 505303. | 0.7 | 0 |
| 22 | An optimization problem for finite point interaction families. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 405302. | 0.7 | 0 |
| 23 | On Dirac operators in \mathbb{R}^3 with electrostatic and Lorentz scalar δ . Quantum Studies: Mathematics and Foundations, 2019, 6, 295-314. | 0.4 | 32 |
| 24 | Spectral asymptotics of the Laplacian on Platonic solids graphs. Journal of Mathematical Physics, 2019, 60, 122101. | 0.5 | 7 |
| 25 | Scattering on Leaky Wires in Dimension Three. Springer Optimization and Its Applications, 2019, , 81-91. | 0.6 | 0 |
| 26 | A geometric Iwatsuka type effect in quantum layers. Journal of Mathematical Physics, 2018, 59, 042105. | 0.5 | 2 |
| 27 | Asymptotics of the bound state induced by δ -interaction supported on a weakly deformed plane. Journal of Mathematical Physics, 2018, 59, . | 0.5 | 10 |
| 28 | Quantum graphs with vertices of a preferred orientation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 283-287. | 0.9 | 13 |
| 29 | Aharonov and Bohm versus Welsh eigenvalues. Letters in Mathematical Physics, 2018, 108, 2153-2167. | 0.5 | 4 |
| 30 | Smilansky–Solomyak model with a δ^2 -interaction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1207-1213. | 0.9 | 4 |
| 31 | On the spectral properties of Dirac operators with electrostatic δ -shell interactions. Journal Des Mathematiques Pures Et Appliquees, 2018, 111, 47-78. | 0.8 | 38 |
| 32 | Spectral Theory of Infinite Quantum Graphs. Annales Henri Poincare, 2018, 19, 3457-3510. | 0.8 | 21 |
| 33 | Editorial “Message from the President. EMS Newsletter, 2018, 2018-3, 3-4. | 0.1 | 0 |
| 34 | On the Bound States of Magnetic Laplacians on Wedges. Reports on Mathematical Physics, 2018, 82, 161-185. | 0.4 | 9 |
| 35 | A family of quantum graph vertex couplings interpolating between different symmetries. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 285301. | 0.7 | 2 |
| 36 | Geometrically Induced Spectral Effects in Tubes with a Mixed Dirichlet–Neumann Boundary. Reports on Mathematical Physics, 2018, 81, 213-231. | 0.4 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Gap Control by Singular Schrodinger Operators in a Periodically Structured Metamaterial. Journal of Mathematical Physics, Analysis, Geometry, 2018, 14, 270-285. | 0.1 | 4 |
| 38 | Spectral and resonance properties of the Smilansky Hamiltonian. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 756-761. | 0.9 | 6 |
| 39 | Pseudo-orbit approach to trajectories of resonances in quantum graphs with general vertex coupling: Fermi rule and high-energy asymptotics. Journal of Mathematical Physics, 2017, 58, 042101. | 0.5 | 3 |
| 40 | Cantor spectra of magnetic chain graphs. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 165201. | 0.7 | 2 |
| 41 | Periodic quantum graphs from the Bethe-Sommerfeld perspective. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 455201. | 0.7 | 12 |
| 42 | A magnetic version of the Smilansky-Solomyak model. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 485203. | 0.7 | 6 |
| 43 | Spectral Properties of Magnetic Chain Graphs. Annales Henri Poincare, 2017, 18, 929-953. | 0.8 | 4 |
| 44 | Infinite quantum graphs. Doklady Mathematics, 2017, 95, 31-36. | 0.1 | 2 |
| 45 | Approximation of Schrödinger operators with $\hat{\Gamma}$ -interactions supported on hypersurfaces. Mathematische Nachrichten, 2017, 290, 1215-1248. | 0.4 | 25 |
| 46 | A spectral isoperimetric inequality for cones. Letters in Mathematical Physics, 2017, 107, 717-732. | 0.5 | 11 |
| 47 | A regular analogue of the Smilansky model: Spectral properties. Reports on Mathematical Physics, 2017, 80, 177-192. | 0.4 | 6 |
| 48 | Quantum graphs with the Bethe-Sommerfeld property. Nanosystems: Physics, Chemistry, Mathematics, 2017, , 305-309. | 0.2 | 2 |
| 49 | On eigenvalue asymptotics for strong $\hat{\Gamma}$ -interactions supported by surfaces with boundaries. Asymptotic Analysis, 2016, 97, 1-25. | 0.2 | 8 |
| 50 | Generalized interactions supported on hypersurfaces. Journal of Mathematical Physics, 2016, 57, . | 0.5 | 19 |
| 51 | Semiclassical bounds in magnetic bottles. Reviews in Mathematical Physics, 2016, 28, 1650002. | 0.7 | 1 |
| 52 | Spectral analysis of a class of Schrödinger operators exhibiting a parameter-dependent spectral transition. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 165302. | 0.7 | 5 |
| 53 | On the existence of bound states in asymmetric leaky wires. Journal of Mathematical Physics, 2016, 57, . | 0.5 | 3 |
| 54 | Strong Coupling Asymptotics for Schrödinger Operators with an Interaction Supported by an Open Arc in three Dimensions. Reports on Mathematical Physics, 2016, 77, 1-17. | 0.4 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | On resonances and bound states of Smilansky Hamiltonian. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2016, , 789-802. | 0.2 | 6 |
| 56 | On the spectrum of narrow Neumann waveguide with periodically distributed δ' traps. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 315301. | 0.7 | 7 |
| 57 | Quantum Waveguides. <i>Theoretical and Mathematical Physics (United States)</i> , 2015, , . | 0.0 | 103 |
| 58 | Gap asymptotics in a weakly bent leaky quantum wire. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 495301. | 0.7 | 12 |
| 59 | Spectra of magnetic chain graphs: coupling constant perturbations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 125302. | 0.7 | 7 |
| 60 | Spectrum of a Dilated Honeycomb Network. <i>Integral Equations and Operator Theory</i> , 2015, 81, 535-557. | 0.4 | 6 |
| 61 | Leaky Waveguides. <i>Theoretical and Mathematical Physics (United States)</i> , 2015, , 327-359. | 0.0 | 0 |
| 62 | Transport in Locally Perturbed Tubes. <i>Theoretical and Mathematical Physics (United States)</i> , 2015, , 55-74. | 0.0 | 0 |
| 63 | Asymptotic eigenvalue estimates for a Robin problem with a large parameter. <i>Portugaliae Mathematica</i> , 2014, 71, 141-156. | 0.4 | 27 |
| 64 | A regular version of Smilansky model. <i>Journal of Mathematical Physics</i> , 2014, 55, . | 0.5 | 12 |
| 65 | Curvature-induced bound states in Robin waveguides and their asymptotical properties. <i>Journal of Mathematical Physics</i> , 2014, 55, . | 0.5 | 14 |
| 66 | Absence of Absolutely Continuous Spectrum for the Kirchoff Laplacian on Radial Trees. <i>Annales Henri Poincare</i> , 2014, 15, 1109-1121. | 0.8 | 6 |
| 67 | On Some Sharp Spectral Inequalities for Schrödinger Operators on Semiaxis. <i>Communications in Mathematical Physics</i> , 2014, 326, 531-541. | 1.0 | 7 |
| 68 | Strong Coupling Asymptotics for a Singular Schrödinger Operator with an Interaction Supported by an Open Arc. <i>Communications in Partial Differential Equations</i> , 2014, 39, 193-212. | 1.0 | 17 |
| 69 | Schrödinger operators with $\hat{\Gamma}$ - and $\hat{\Gamma}^2$ -interactions on Lipschitz surfaces and chromatic numbers of associated partitions. <i>Reviews in Mathematical Physics</i> , 2014, 26, 1450015. | 0.7 | 47 |
| 70 | Non-equilibrium current via geometric scatterers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 395301. | 0.7 | 0 |
| 71 | Spectral asymptotics of a strong δ' -interaction on a conical surface. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 355202. | 0.9 | 7 |
| 72 | Schrödinger operators with $\hat{\Gamma}$ -interactions supported on conical surfaces. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 355202. | 0.7 | 29 |

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|----|---|-----|-----------|
| 73 | Approximations of Quantum-Graph Vertex Couplings by Singularly Scaled Rank-One Operators. Letters in Mathematical Physics, 2014, 104, 1079-1094. | 0.5 | 10 |
| 74 | A regular analogue of Smilansky model. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 985-986. | 0.2 | 0 |
| 75 | A variation on Smilansky's model. , 2014, , . | | 0 |
| 76 | Spectral estimates for Dirichlet Laplacians on perturbed twisted tubes. Operators and Matrices, 2014, , 167-183. | 0.1 | 0 |
| 77 | A General Approximation of Quantum Graph Vertex Couplings by Scaled Schrödinger Operators on Thin Branched Manifolds. Communications in Mathematical Physics, 2013, 322, 207-227. | 1.0 | 30 |
| 78 | Spectral asymptotics of a strong $\hat{\Gamma}^{\alpha^2}$ interaction on a planar loop. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 345201. | 0.7 | 14 |
| 79 | Approximations of quantum-graph vertex couplings by singularly scaled potentials. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 345202. | 0.7 | 5 |
| 80 | Spectral estimates for Dirichlet Laplacians and Schrödinger operators on geometrically nontrivial cusps. Journal of Spectral Theory, 2013, 3, 465-484. | 0.4 | 1 |
| 81 | Tunneling resonances in systems without a classical trapping. Journal of Mathematical Physics, 2013, 54, 012102. | 0.5 | 10 |
| 82 | Improving ERC Ethical Standards. Science, 2013, 341, 1043-1043. | 6.0 | 2 |
| 83 | Essential spectrum of Schrödinger operators with $\hat{\Gamma}$ -interactions on the union of compact Lipschitz hypersurfaces. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 523-524. | 0.2 | 11 |
| 84 | FOREWORD: THREE QUARTERS A CENTURY. Acta Polytechnica, 2013, 53, . | 0.3 | 1 |
| 85 | Solvable Models of Resonances and Decays. Operator Theory: Advances and Applications, 2013, , 165-227. | 0.2 | 5 |
| 86 | RESONANCES ON HEDGEHOG MANIFOLDS. Acta Polytechnica, 2013, 53, 416-426. | 0.3 | 2 |
| 87 | Spectral estimates for a class of Schrödinger operators with infinite phase space and potential unbounded from below. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 075204. | 0.7 | 9 |
| 88 | On the ground state of quantum graphs with attractive $\hat{\Gamma}$ -coupling. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 713-717. | 0.9 | 25 |
| 89 | Decay Law Regularity. Integral Equations and Operator Theory, 2012, 72, 1-2. | 0.4 | 1 |
| 90 | Dynamics of an electron confined to a $\hat{\alpha}$ -hybrid plane and interacting with a magnetic field. Reports on Mathematical Physics, 2011, 67, 211-227. | 0.4 | 9 |

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|-----|---|-----|-----------|
| 91 | Inverse scattering problem for quantum graph vertices. <i>Physical Review A</i> , 2011, 83, . | 1.0 | 5 |
| 92 | Built-up structure criticality. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 3922-3931. | 1.2 | 1 |
| 93 | Remarks on the Trotter–Kato Product Formula for Unitary Groups. <i>Integral Equations and Operator Theory</i> , 2011, 69, 451-478. | 0.4 | 6 |
| 94 | Non-Weyl resonance asymptotics for quantum graphs in a magnetic field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 805-807. | 0.9 | 14 |
| 95 | VERTEX COUPLINGS IN QUANTUM GRAPHS: APPROXIMATIONS BY SCALED SCHRÖDINGER OPERATORS. , 2011, , . | | 5 |
| 96 | Approximation of a general singular vertex coupling in quantum graphs. <i>Annals of Physics</i> , 2010, 325, 548-578. | 1.0 | 52 |
| 97 | Tripartite connection condition for a quantum graph vertex. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 375, 113-118. | 0.9 | 7 |
| 98 | On the absence of absolutely continuous spectra for Schrödinger operators on radial tree graphs. <i>Journal of Mathematical Physics</i> , 2010, 51, . | 0.5 | 7 |
| 99 | High-energy asymptotics of the spectrum of a periodic square lattice quantum graph. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 474024. | 0.7 | 5 |
| 100 | Non-Weyl asymptotics for quantum graphs with general coupling conditions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 474013. | 0.7 | 26 |
| 101 | On the location of spectral edges in \mathbb{Z} -periodic media. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 474022. | 0.7 | 28 |
| 102 | Resonances from perturbations of quantum graphs with rationally related edges. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 105301. | 0.7 | 21 |
| 103 | Spectrum of Dirichlet Laplacian in a conical layer. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 474023. | 0.7 | 16 |
| 104 | On geometric perturbations of critical Schrödinger operators with a surface interaction. <i>Journal of Mathematical Physics</i> , 2009, 50, 112101. | 0.5 | 16 |
| 105 | Approximation of quantum graph vertex couplings by scaled Schrödinger operators on thin branched manifolds. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 415305. | 0.7 | 35 |
| 106 | The distribution of landed property. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 4619-4623. | 1.2 | 1 |
| 107 | Spectral Filtering in Quantum Y-Junction. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 124004. | 0.7 | 12 |
| 108 | Hiatus perturbation for a singular Schrödinger operator with an interaction supported by a curve in \mathbb{R}^3 . <i>Journal of Mathematical Physics</i> , 2008, 49, 032111. | 0.5 | 16 |

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|-----|---|-----|-----------|
| 109 | Quantum networks modelled by graphs. AIP Conference Proceedings, 2008, , . | 0.3 | 6 |
| 110 | A Markov process associated with plot-size distribution in Czech Land Registry and its number-theoretic properties. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 045004. | 0.7 | 1 |
| 111 | On the spectrum of a bent chain graph. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 415206. | 0.7 | 22 |
| 112 | On the optimization of the principal eigenvalue for single-centre point-interaction operators in a bounded region. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 065305. | 0.7 | 3 |
| 113 | INTERLACED DENSE POINT AND ABSOLUTELY CONTINUOUS SPECTRA FOR HAMILTONIANS WITH CONCENTRIC-SHELL SINGULAR INTERACTIONS. , 2008, , . | | 3 |
| 114 | APPROXIMATIONS OF SINGULAR VERTEX COUPLINGS IN QUANTUM GRAPHS. Reviews in Mathematical Physics, 2007, 19, 571-606. | 0.7 | 35 |
| 115 | LOCALIZATION ON A QUANTUM GRAPH WITH A RANDOM POTENTIAL ON THE EDGES. Reviews in Mathematical Physics, 2007, 19, 923-939. | 0.7 | 24 |
| 116 | Nontrivial edge coupling from a Dirichlet network squeezing: the case of a bent waveguide. Journal of Physics A: Mathematical and Theoretical, 2007, 40, F511-F523. | 0.7 | 38 |
| 117 | The decay law can have an irregular character. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 1333-1340. | 0.7 | 11 |
| 118 | Convergence of resonances on thin branched quantum waveguides. Journal of Mathematical Physics, 2007, 48, 092104. | 0.5 | 31 |
| 119 | Unstable system dynamics: Do we understand it fully?. Reports on Mathematical Physics, 2007, 59, 351-363. | 0.4 | 5 |
| 120 | A remark on helical waveguides. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 369, 393-399. | 0.9 | 7 |
| 121 | Vladimir A. Geyler. Russian Journal of Mathematical Physics, 2007, 14, 371-376. | 0.4 | 0 |
| 122 | A "Hybrid Plane" with spin-orbit interaction. Russian Journal of Mathematical Physics, 2007, 14, 430-434. | 0.4 | 27 |
| 123 | Zeno Product Formula Revisited. Integral Equations and Operator Theory, 2007, 57, 67-81. | 0.4 | 10 |
| 124 | Absolute Continuity of the Spectrum for Periodically Modulated Leaky Wires in \mathbb{R}^3 . Annales Henri Poincaré, 2007, 8, 241-263. | 0.8 | 8 |
| 125 | On the Dense Point and Absolutely Continuous Spectrum for Hamiltonians with Concentric $\hat{\Gamma}$ Shells. Letters in Mathematical Physics, 2007, 82, 25-37. | 0.5 | 11 |
| 126 | On the critical exponent in an isoperimetric inequality for chords. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 368, 1-6. | 0.9 | 7 |

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|-----|--|-----|-----------|
| 127 | On Relations Between Stable and Zeno Dynamics in a Leaky Graph Decay Model. , 2007, , 21-34. | | 1 |
| 128 | Approximations by graphs and emergence of global structures. Reports on Mathematical Physics, 2006, 57, 445-455. | 0.4 | 7 |
| 129 | Resonance asymptotics in the generalized Winter model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 360, 57-61. | 0.9 | 8 |
| 130 | Inequalities for Means of Chords, with Application to Isoperimetric Problems. Letters in Mathematical Physics, 2006, 75, 225-233. | 0.5 | 36 |
| 131 | Addendum to P. Exner, E.M. Harrell, M. Loss: Inequalities for means of chords, with application to isoperimetric problems, Lett. Math. Phys. 75 (2006), 225-233. Letters in Mathematical Physics, 2006, 77, 219-219. | 0.5 | 3 |
| 132 | Distant perturbation asymptotics in window-coupled waveguides. I. The nonthreshold case. Journal of Mathematical Physics, 2006, 47, 113502. | 0.5 | 15 |
| 133 | Approximations by Graphs and Emergence of Global Structures. Acta Physica Polonica A, 2006, 109, 23-31. | 0.2 | 1 |
| 134 | Point Interaction Polygons: An Isoperimetric Problem. Lecture Notes in Physics, 2006, , 55-64. | 0.3 | 0 |
| 135 | ON EXISTENCE OF QUANTUM ZENO DYNAMICS. , 2006, , . | | 0 |
| 136 | Bose-Einstein condensation in geometrically deformed tubes. Journal of Physics A, 2005, 38, L463-L470. | 1.6 | 8 |
| 137 | A Product Formula Related to Quantum Zeno Dynamics. Annales Henri Poincare, 2005, 6, 195-215. | 0.8 | 25 |
| 138 | Convergence of spectra of graph-like thin manifolds. Journal of Geometry and Physics, 2005, 54, 77-115. | 0.7 | 136 |
| 139 | Spectrum of the Schrödinger Operator in a Perturbed Periodically Twisted Tube. Letters in Mathematical Physics, 2005, 73, 183-192. | 0.5 | 20 |
| 140 | An isoperimetric problem for point interactions. Journal of Physics A, 2005, 38, 4795-4802. | 1.6 | 10 |
| 141 | Scattering by local deformations of a straight leaky wire. Journal of Physics A, 2005, 38, 4865-4874. | 1.6 | 16 |
| 142 | Singular interactions in quantum mechanics: solvable models. Journal of Physics A, 2005, 38, . | 1.6 | 6 |
| 143 | The von Neumann way to treat systems of mixed dimensionality. Reports on Mathematical Physics, 2005, 55, 79-92. | 0.4 | 2 |
| 144 | An isoperimetric problem for leaky loops and related mean-chord inequalities. Journal of Mathematical Physics, 2005, 46, 062105. | 0.5 | 31 |

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|-----|---|-----|-----------|
| 145 | Sufficient conditions for the anti-Zeno effect. Journal of Physics A, 2005, 38, L449-L454. | 1.6 | 7 |
| 146 | A model of interband radiative transition. Journal of the Mathematical Society of Japan, 2004, 56, 753. | 0.3 | 1 |
| 147 | An approximation to $\hat{A}\hat{A}$ couplings on graphs. Journal of Physics A, 2004, 37, L329-L335. | 1.6 | 33 |
| 148 | Exponential splitting of bound states in a waveguide with a pair of distant windows. Journal of Physics A, 2004, 37, 3411-3428. | 1.6 | 35 |
| 149 | Schrödinger operators with singular interactions: a model of tunnelling resonances. Journal of Physics A, 2004, 37, 8255-8277. | 1.6 | 12 |
| 150 | Topologically nontrivial quantum layers. Journal of Mathematical Physics, 2004, 45, 774-784. | 0.5 | 59 |
| 151 | STRONG-COUPLING ASYMPTOTIC EXPANSION FOR SCHRÖDINGER OPERATORS WITH A SINGULAR INTERACTION SUPPORTED BY A CURVE IN \hat{a}, \hat{b} . Reviews in Mathematical Physics, 2004, 16, 559-582. | 0.7 | 24 |
| 152 | Spectra of soft ring graphs. Waves in Random and Complex Media, 2004, 14, S47-S60. | 1.5 | 19 |
| 153 | Lieb-Thirring Inequalities for Geometrically Induced Bound States. Letters in Mathematical Physics, 2004, 70, 83-95. | 0.5 | 25 |
| 154 | Enhanced binding revisited for a spinless particle in nonrelativistic QED. Journal of Mathematical Physics, 2004, 45, 4174-4185. | 0.5 | 27 |
| 155 | A lower bound to the spectral threshold in curved tubes. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2004, 460, 3457-3467. | 1.0 | 33 |
| 156 | Absolute Continuity in Periodic Thin Tubes and Strongly Coupled Leaky Wires. Letters in Mathematical Physics, 2003, 65, 75-82. | 0.5 | 10 |
| 157 | Eigenvalue Asymptotics for the Schrödinger Operator with a \hat{I} -Interaction on a Punctured Surface. Letters in Mathematical Physics, 2003, 65, 19-26. | 0.5 | 14 |
| 158 | Persistent currents due to point obstacles. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 307, 209-214. | 0.9 | 1 |
| 159 | Magnetic layers with periodic point perturbations. Reports on Mathematical Physics, 2003, 52, 255-280. | 0.4 | 21 |
| 160 | Leaky quantum graphs: approximations by point-interaction Hamiltonians. Journal of Physics A, 2003, 36, 10173-10193. | 1.6 | 36 |
| 161 | Bound states due to a strong \hat{A} interaction supported by a curved surface. Journal of Physics A, 2003, 36, 443-457. | 1.6 | 38 |
| 162 | Extended Standard Map with Spatio-Temporal Asymmetry. Journal of the Physical Society of Japan, 2003, 72, 1087-1091. | 0.7 | 17 |

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|-----|--|-----|-----------|
| 163 | Large gaps in point-coupled periodic systems of manifolds. Journal of Physics A, 2003, 36, 4875-4890. | 1.6 | 35 |
| 164 | Quantum mechanics of layers with a finite number of point perturbations. Journal of Mathematical Physics, 2002, 43, 1152-1184. | 0.5 | 28 |
| 165 | Geometric coupling thresholds in a two-dimensional strip. Journal of Mathematical Physics, 2002, 43, 6265-6278. | 0.5 | 65 |
| 166 | Multiple bound states in scissor-shaped waveguides. Physical Review B, 2002, 66, . | 1.1 | 42 |
| 167 | Generalized boundary conditions for the Aharonovâ€“Bohm effect combined with a homogeneous magnetic field. Journal of Mathematical Physics, 2002, 43, 2151. | 0.5 | 24 |
| 168 | Persistent currents for the 2D SchrÃ¶dinger operator with a strong \hat{V} -interaction on a loop. Journal of Physics A, 2002, 35, 3479-3487. | 1.6 | 16 |
| 169 | Asymptotics of eigenvalues of the SchrÃ¶dinger operator with a strong \hat{V} -interaction on a loop. Journal of Geometry and Physics, 2002, 41, 344-358. | 0.7 | 69 |
| 170 | Curvature-Induced Bound States for a δ Interaction Supported by a Curve in \mathbb{R}^3 . Annales Henri Poincare, 2002, 3, 967-981. | 0.8 | 33 |
| 171 | Open quantum dots: resonances from perturbed symmetry and bound states in strong magnetic fields. Reports on Mathematical Physics, 2001, 47, 253-267. | 0.4 | 44 |
| 172 | Geometrically induced spectrum in curved leaky wires. Journal of Physics A, 2001, 34, 1439-1450. | 1.6 | 87 |
| 173 | A single-mode quantum transport in serial-structure geometric scatterers. Journal of Mathematical Physics, 2001, 42, 4050-4078. | 0.5 | 40 |
| 174 | Bound States in Weakly Deformed Strips and Layers. Annales Henri Poincare, 2001, 2, 553-572. | 0.8 | 71 |
| 175 | Bound States in Curved Quantum Layers. Communications in Mathematical Physics, 2001, 223, 13-28. | 1.0 | 83 |
| 176 | Band Gap of the SchrÃ¶dinger Operator with a Strong \hat{V} -Interaction on a Periodic Curve. Annales Henri Poincare, 2001, 2, 1139-1158. | 0.8 | 22 |
| 177 | Potential Approximations to \hat{V} : An Inverse Klauder Phenomenon with Norm-Resolvent Convergence. Communications in Mathematical Physics, 2001, 224, 593-612. | 1.0 | 87 |
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