# Pavel Exner

List of Publications by Year
in descending order

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| 293 | 6,136 | 87888 | 110387 |
|---|---|---|---|
| papers | citations | 38 h-index | 64 g-index |

| 315 | 315 | 315 | 837 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
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| 1 | CURVATURE-INDUCED BOUND STATES IN QUANTUM WAVEGUIDES IN TWO AND THREE DIMENSIONS. Reviews in Mathematical Physics, 1995, 07, 73-102. | 1.7 | 326 |
| 2 | Bound states in curved quantum waveguides. Journal of Mathematical Physics, 1989, 30, 2574-2580. | 1.1 | 289 |
| 3 | SchrÃ¶dinger-Operators with Singular Interactions. Journal of Mathematical Analysis and Applications, 1994, 184, 112-139. | 1.0 | 184 |
| 4 | Open Quantum Systems and Feynman Integrals. , 1985, , . | | 156 |
| 5 | Convergence of spectra of graph-like thin manifolds. Journal of Geometry and Physics, 2005, 54, 77-115. | 1.4 | 136 |
| 6 | Free quantum motion on a branching graph. Reports on Mathematical Physics, 1989, 28, 7-26. | 0.8 | 135 |
| 7 | Periodic SchrÃ¶dinger operators with large gaps and Wannier-Stark ladders. Physical Review Letters, 1994, 72, 896-899. | 7.8 | 113 |
| 8 | Bound states and scattering in quantum waveguides coupled laterally through a boundary window. Journal of Mathematical Physics, 1996, 37, 4867-4887. | 1.1 | 110 |
| 9 | Quantum Waveguides. Theoretical and Mathematical Physics (United States), 2015, , . | 0.0 | 103 |
| 10 | Lattice Kronig-Penney Models. Physical Review Letters, 1995, 74, 3503-3506. | 7.8 | 102 |
| 11 | Contact interactions on graph superlattices. Journal of Physics A, 1996, 29, 87-102. | 1.6 | 91 |
| 12 | Geometrically induced spectrum in curved leaky wires. Journal of Physics A, 2001, 34, 1439-1450. | 1.6 | 87 |
| 13 | Potential Approximations to Î´': An Inverse Klauder Phenomenon with Norm-Resolvent Convergence. Communications in Mathematical Physics, 2001, 224, 593-612. | 2.2 | 87 |
| 14 | On existence of a bound state in an L-shaped waveguide. European Physical Journal D, 1989, 39, 1181-1191. | 0.4 | 85 |
| 15 | Bound States in Curved Quantum Layers. Communications in Mathematical Physics, 2001, 223, 13-28. | 2.2 | 83 |
| 16 | Bound States in Weakly Deformed Strips and Layers. Annales Henri Poincare, 2001, 2, 553-572. | 1.7 | 71 |
| 17 | Dirac operators with a spherically symmetric Î´â€shell interaction. Journal of Mathematical Physics, 1989, 30, 2875-2882. | 1.1 | 69 |
| 18 | Asymptotics of eigenvalues of the SchrÃ¶dinger operator with a strong Î´-interaction on a loop. Journal of Geometry and Physics, 2002, 41, 344-358. | 1.4 | 69 |

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| 19 | Geometric coupling thresholds in a two-dimensional strip. Journal of Mathematical Physics, 2002, 43, 6265-6278. | 1.1 | 65 |
| 20 | Bound States in a Locally Deformed Waveguide: The Critical Case. Letters in Mathematical Physics, 1997, 39, 59-68. | 1.1 | 59 |
| 21 | Topologically nontrivial quantum layers. Journal of Mathematical Physics, 2004, 45, 774-784. | 1.1 | 59 |
| 22 | Quantum motion on a halfâ€line connected to a plane. Journal of Mathematical Physics, 1987, 28, 386-391. | 1.1 | 58 |
| 23 | Weakly coupled states on branching graphs. Letters in Mathematical Physics, 1996, 38, 313-320. | 1.1 | 55 |
| 24 | Tunneling through a singular potential barrier. Journal of Mathematical Physics, 1985, 26, 2000-2008. | 1.1 | 53 |
| 25 | Approximation of a general singular vertex coupling in quantum graphs. Annals of Physics, 2010, 325, 548-578. | 2.8 | 52 |
| 26 | Band spectra of rectangular graph superlattices. Physical Review B, 1996, 53, 7275-7286. | 3.2 | 49 |
| 27 | Bound-state asymptotic estimates for window-coupled Dirichlet strips and layers. Journal of Physics A, 1997, 30, 7863-7878. | 1.6 | 49 |
| 28 | Stability of Driven Systems with Growing Gaps, Quantum Rings, and Wannier Ladders. Journal of Statistical Physics, 1998, 92, 1053-1070. | 1.2 | 47 |
| 29 | SchrÃ¶dinger operators with Î´- and Î´â€²-interactions on Lipschitz surfaces and chromatic numbers of associated partitions. Reviews in Mathematical Physics, 2014, 26, 1450015. | 1.7 | 47 |
| 30 | The absence of the absolutely continuous spectrum for Î´â€‰â€² Wannierâ€“Stark ladders. Journal of Mathematical Physics, 1995, 36, 4561-4570. | 1.1 | 46 |
| 31 | Open quantum dots: resonances from perturbed symmetry and bound states in strong magnetic fields. Reports on Mathematical Physics, 2001, 47, 253-267. | 0.8 | 44 |
| 32 | Lower bounds to bound state energies in bent tubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 150, 183-186. | 2.1 | 42 |
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| 39 | Bound states due to a strong Â interaction supported by a curved surface. Journal of Physics A, 2003, 36, 443-457. | 1.6 | 38 |
| 40 | 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. | 2.1 | 38 |
| 41 | On the spectral properties of Dirac operators with electrostatic Î´-shell interactions. Journal Des Mathematiques Pures Et Appliquees, 2018, 111, 47-78. | 1.6 | 38 |
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| 43 | Resonance statistics in a microwave cavity with a thin antenna. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 228, 146-150. | 2.1 | 37 |
| 44 | Leaky quantum graphs: approximations by point-interaction Hamiltonians. Journal of Physics A, 2003, 36, 10173-10193. | 1.6 | 36 |
| 45 | Inequalities for Means of Chords, with Application to Isoperimetric Problems. Letters in Mathematical Physics, 2006, 75, 225-233. | 1.1 | 36 |
| 46 | Large gaps in point-coupled periodic systems of manifolds. Journal of Physics A, 2003, 36, 4875-4890. | 1.6 | 35 |
| 47 | 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 |
| 48 | APPROXIMATIONS OF SINGULAR VERTEX COUPLINGS IN QUANTUM GRAPHS. Reviews in Mathematical Physics, 2007, 19, 571-606. | 1.7 | 35 |
| 49 | Approximation of quantum graph vertex couplings by scaled SchrÃ¶dinger operators on thin branched manifolds. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 415305. | 2.1 | 35 |
| 50 | A Model of Resonance Scattering on Curved Quantum Wires. Annalen Der Physik, 1990, 502, 123-138. | 2.4 | 34 |
| 51 | Semiconductor edges can bind electrons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 150, 179-182. | 2.1 | 34 |
| 52 | Journal of Mathematical Physics, 1992, 33, 2207-2214. | 1.1 | 34 |
| 53 | Remark on the energy spectrum of a decaying system. Communications in Mathematical Physics, 1976, 50, 1-10. | 2.2 | 33 |
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| 56 | 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. | 2.1 | 33 |
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| 65 | A General Approximation of Quantum Graph Vertex Couplings by Scaled SchrÃ¶dinger Operators on Thin Branched Manifolds. Communications in Mathematical Physics, 2013, 322, 207-227. | 2.2 | 30 |
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| 106 | A Mathematical Model of Heavy-Quarkonia Mesonic Decays. Annals of Physics, 1994, 233, 1-16. | 2.8 | 16 |
| 107 | Appendix resonances on a simple graph. Journal of Physics A, 1994, 27, 8269-8278. | 1.6 | 16 |
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| 112 | Spectrum of Dirichlet Laplacian in a conical layer. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 474023. | 2.1 | 16 |
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| 118 | Spectral asymptotics of a strong Î´â€² interaction on a planar loop. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 345201. | 2.1 | 14 |
| 119 | Curvature-induced bound states in Robin waveguides and their asymptotical properties. Journal of Mathematical Physics, 2014, 55, . | 1.1 | 14 |
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| 123 | Bound states in mildly curved layers. Journal of Physics A, 2001, 34, 5969-5985. | 1.6 | 12 |
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| 125 | Spectral Filtering in Quantum Y-Junction. Journal of the Physical Society of Japan, 2009, 78, 124004. | 1.6 | 12 |
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| 128 | Periodic quantum graphs from the Betheâ€“Sommerfeld perspective. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 455201. | 2.1 | 12 |
| 129 | Bound States of Infinite Curved Polymer Chains. Letters in Mathematical Physics, 2001, 57, 87-96. | 1.1 | 11 |
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| 133 | Essential spectrum of SchrÃ¶dinger operators with Î´-interactions on the union of compact Lipschitz hypersurfaces. Proceedings in Applied Mathematics and Mechanics, 2013, 13, 523-524. | 0.2 | 11 |
| 134 | A spectral isoperimetric inequality for cones. Letters in Mathematical Physics, 2017, 107, 717-732. | 1.1 | 11 |
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| 136 | Path-integral expression of dissipative dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 1981, 83, 203-206. | 2.1 | 10 |
| 137 | Magnetic transport in a straight parabolic channel. Journal of Physics A, 2001, 34, 9733-9752. | 1.6 | 10 |
| 138 | Absolute Continuity in Periodic Thin Tubes and Strongly Coupled Leaky Wires. Letters in Mathematical Physics, 2003, 65, 75-82. | 1.1 | 10 |
| 139 | An isoperimetric problem for point interactions. Journal of Physics A, 2005, 38, 4795-4802. | 1.6 | 10 |
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| 142 | Approximations of Quantum-Graph Vertex Couplings by Singularly Scaled Rank-One Operators. Letters in Mathematical Physics, 2014, 104, 1079-1094. | 1.1 | 10 |
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| 144 | Bosonâ€“fermion representations of Lie superalgebras: The example of osp(1,2). Journal of Mathematical Physics, 1982, 23, 350-353. | 1.1 | 9 |

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