

1. Eigenvalue estimates for the weighted Laplacian on metric trees, *Proc. London Math. Soc.* (3) **80** (2000) 690-724; with K. Naimark.
2. On the negative discrete spectrum of a periodic elliptic operator in a waveguide-type domain, perturbed by a decaying potential, *Journal d'Analyse Mathématique* **83** (2001) 337-391; with M.Sh. Birman.
3. Geometry of the Sobolev spaces on the regular trees and Hardy's inequalities; *Russian J. of Mathematical Phys.* **8** (2001) 322-335; with K.Naimark.
4. Schrödinger operators on homogeneous metric trees: spectrum in gaps; *Rev. Math. Phys.* **14** (2002) 421-468; with A.V.Sobolev.
5. On the eigenvalue estimates for a weighted Laplacian on metric graphs, in: *Nonlinear Problems in Mathematical Physics and Related Topics I*, In Honor of Professor O.A. Ladyzhenskaya; M.Sh, Birman, S. Hildebrandt, V.A. Solonnikov, N.N. Uraltseva (Ed.), Kluwer, 2002, 327--347.
6. Laplace and Schrödinger operators on regular metric trees: the discrete spectrum case, in: *Function Spaces, Differential Operators, Nonlinear Analysis -- The Hans Triebel Anniversary Volume*; D. Haroske, T. Runst, H.-J. Schmeisser (Ed.), Birkhäuser, Basel, 2003, 161--182.
7. On approximation of functions from Sobolev spaces on metric graphs; *J. Approx. Theory* **121**, 2 (2003) 199-219.
8. Double Operator Integrals in a Hilbert Space; *Integral Equations and Operator Theory* **47** (2003) 131-168; with M.Sh. Birman.
9. On the spectrum of the Laplacian on regular metric trees; *Waves in Random Media* **14** (2004) S155 -- S171.
10. On a differential operator appearing in the theory of irreversible quantum graphs; *Waves in Random Media* **14** (2004) S173 -- S185.
11. On the discrete spectrum of a family of differential operators; *Funct. Analysis and its appl.* **38** (2004) No. 5, 70 - 78 (Russian); English transl. in *Funct. Analysis and its appl.* **38** (2004) 217 - 223.
12. On the mathematical model of the irreversible quantum graph, *Algebra i Analiz* **17** (2005) N5, 190 - 230 (Russian). English transl. in *St.-Petersburg Math. J.* **17** (2005).
13. Smilansky's model of irreversible quantum graphs: I. The absolutely continuous spectrum, *J. of Physics A: Mathematics and general* **38** (2005) 1 - 17; with W.D. Evans.
14. Smilansky's model of irreversible quantum graphs: II. The point spectrum, *J. of Physics A: Mathematics and general* **38** (2005) 7661 - 7675; with W.D.Evans.

15. The quantum graph as a limit of a network of physical wires, in: *Quantum Graphs and their Applications*, *Contemporary Mathematics*, G. Berkolaiko, R. Carlson, S. A. Fulling, and P. Kuchment (Editors), v. 415, AMS, Providence, RI 2006, 283 -- 291; with U. Smilansky.
16. On the absolutely continuous spectrum of a family of operators appearing in the theory of irreversible quantum systems, *Proc. London Math. Soc.* (3) **92** (2006) 251 - 272; with S.N. Naboko.