Gennady Alekseev

List of Publications by Citations

56 papers	535 citations	15 h-index	19 g-index
62 ext. papers	673 ext. citations	0.8 avg, IF	4.76 L-index

#	Paper	IF	Citations
56	Solvability of stationary boundary control problems for heat convection equations. *Siberian Mathematical Journal*, **1998**, 39, 844-858	0.5	39
55	Stability estimates in identification problems for the convection-diffusion-reaction equation. *Computational Mathematics and Mathematical Physics*, **2012**, 52, 1635-1649	0.9	28
54	Solvability of Inverse Extremal Problems for Stationary Heat and Mass Transfer Equations. *Siberian Mathematical Journal*, **2001**, 42, 811-827	0.5	24
53	Particle swarm optimization-based algorithms for solving inverse problems of designing thermal cloaking and shielding devices. *International Journal of Heat and Mass Transfer*, **2019**, 135, 1269-1277	4.9	23
52	Identification problems for a steady-state model of mass transfer. *Journal of Applied Mechanics and Technical Physics*, **2008**, 49, 537-547	0.6	22
51	Optimization analysis of the thermal cloaking problem for a cylindrical body. *Doklady Physics*, **2017**, 62, 71-75	0.8	20
50	Cloaking via impedance boundary condition for the 2-D Helmholtz equation. *Applicable Analysis*, **2014**, 93, 254-268	0.8	20
49	Optimization method of searching parameters of an inhomogeneous liquid medium in the acoustic cloaking problem. *Doklady Physics*, **2014**, 59, 89-93	0.8	20
48	An optimization method for the problems of thermal cloaking of material bodies. *Doklady Physics*, **2016**, 61, 546-550	0.8	20
47	Two-parameter extremum problems of boundary control for stationary thermal convection equations. *Computational Mathematics and Mathematical Physics*, **2011**, 51, 1539-1557	0.9	19
46	Coefficient inverse extremum problems for stationary heat and mass transfer equations. *Computational Mathematics and Mathematical Physics*, **2007**, 47, 1007-1028	0.9	19
45	Stability estimates in the problem of cloaking material bodies for Maxwell's equations. *Computational Mathematics and Mathematical Physics*, **2014**, 54, 1788-1803	0.9	18
44	Control of boundary impedance in two-dimensional material-body cloaking by the wave flow method. *Computational Mathematics and Mathematical Physics*, **2013**, 53, 1853-1869	0.9	16
43	Solvability of Control Problems for Stationary Equations of Magnetohydrodynamics of a Viscous Fluid. *Siberian Mathematical Journal*, **2004**, 45, 197-213	0.5	16
42	One class of nonscattering acoustic shells for a model of anisotropic acoustics. *Journal of Applied and Industrial Mathematics*, **2012**, 6, 1-5	0.6	15
41	Stability estimates of solutions to extremal problems for a nonlinear convection-diffusion-reaction equation. *Journal of Applied and Industrial Mathematics*, **2016**, 10, 155-167	0.6	15
40	Analysis and optimization in problems of cloaking of material bodies for the Maxwell equations. *Differential Equations*, **2016**, 52, 361-372	0.7	14

39	Optimization in problems of material-body cloaking using the wave-flow method. *Doklady Physics*, **2013**, 58, 147-151	0.8	13
38	Solvability of the boundary value problem for stationary magnetohydrodynamic equations under mixed boundary conditions for the magnetic field. *Applied Mathematics Letters*, **2014**, 32, 13-18	3.5	12
37	Cloaking of material objects by controlling the impedance boundary condition for Maxwell equations. *Doklady Physics*, **2013**, 58, 482-486	0.8	12
36	Extremum problems of boundary control for steady equations of thermal convection. *Journal of Applied Mechanics and Technical Physics*, **2010**, 51, 510-520	0.6	12
35	Method of Rapid Remote Control of Casein Concentration in Dairy Products in Unopened Packages. *Journal of Food Process Engineering*, **2015**, 38, 11-18	2.4	11
34	The optimization method in design problems of spherical layered thermal shells. *Doklady Physics*, **2017**, 62, 465-469	0.8	11
33	Analysis of a Two-Dimensional Thermal Cloaking Problem on the Basis of Optimization. *Computational Mathematics and Mathematical Physics*, **2018**, 58, 478-492	0.9	11
32	On stability of solutions of the coefficient inverse extremal problems for the stationary convection-diffusion equation. *Journal of Applied and Industrial Mathematics*, **2013**, 7, 1-14	0.6	9
31	Mixed boundary value problems for steady-state magnetohydrodynamic equations of viscous incompressible fluid. *Computational Mathematics and Mathematical Physics*, **2016**, 56, 1426-1439	0.9	8
30	Solvability of an inhomogeneous boundary value problem for the stationary magnetohydrodynamic equations for a viscous incompressible fluid. *Differential Equations*, **2016**, 52, 739-748	0.7	8
29	Uniqueness and stability in coefficient identification problems for a stationary model of mass transfer. *Doklady Mathematics*, **2007**, 76, 797-800	0.7	8
28	Mixed Boundary Value Problems for Stationary Magnetohydrodynamic Equations of a Viscous Heat-Conducting Fluid. *Journal of Mathematical Fluid Mechanics*, **2016**, 18, 591-607	1.4	7
27	Optimization Method for Axisymmetric Problems of Electric Cloaking of Material Bodies. *Computational Mathematics and Mathematical Physics*, **2019**, 59, 207-223	0.9	6
26	Stability estimates for the solutions of control problems for the stationary magnetohydrodynamic equations. *Differential Equations*, **2012**, 48, 397-409	0.7	6
25	Stability estimates for the solutions to inverse extremal problems for the Helmholtz equation. *Journal of Applied and Industrial Mathematics*, **2013**, 7, 302-312	0.6	6
24	Stability estimates for solutions of control problems for the Maxwell equations with mixed boundary conditions. *Differential Equations*, **2013**, 49, 963-974	0.7	5
23	Theoretical analysis of boundary control extremal problems for Maxwell equations. *Journal of Applied and Industrial Mathematics*, **2011**, 5, 478-490	0.6	5
22	Optimization method in problems of acoustic cloaking of material bodies. *Computational Mathematics and Mathematical Physics*, **2017**, 57, 1459-1474	0.9	4

21	Optimization method in material bodies cloaking with respect to static physical fields. *Journal of Inverse and Ill-Posed Problems*, **2019**, 27, 845-857	1.3	4
20	On the uniqueness and stability of solutions of extremal problems for the stationary Navier-Stokes equations. *Differential Equations*, **2010**, 46, 70-82	0.7	4
19	Stability of Optimal Controls for the Stationary Boussinesq Equations. *International Journal of Differential Equations*, **2011**, 2011, 1-28	0.8	4
18	Extremum problems of boundary control for a stationary thermal convection model. *Doklady Mathematics*, **2010**, 81, 151-155	0.7	4
17	Solvability of the inhomogeneous mixed boundary value problem for stationary magnetohydrodynamic equations. *Doklady Physics*, **2014**, 59, 467-471	0.8	3
16	Optimization-based method of solving 2D thermal cloaking problems. *Journal of Physics: Conference Series*, **2019**, 1268, 012004	0.3	2
15	Stability estimates for solutions of boundary control problems for Maxwell□s equations with mixed boundary conditions. *Doklady Mathematics*, **2012**, 86, 733-737	0.7	2
14	Control Problems for Heat-Conducting Viscous Fluid Flow in Manufacturing Processes. *Applied Mechanics and Materials*, **2013**, 372, 373-376	0.3	2
13	Control problems for the stationary MHD equations under mixed boundary conditions. *Journal of Physics: Conference Series*, **2019**, 1268, 012005	0.3	1
12	Numerical Analysis of 2D Cloaking Problems Using Homogeneus Materials. *Key Engineering Materials*, **2016**, 685, 56-59	0.4	1
11	2D Electromagnetic Wave Scattering Problem for Cylindrical Cloak Incorporating PEMC-Layer. *Key Engineering Materials*, **2016**, 685, 75-79	0.4	1
10	Control Approach in Cloaking Problems for 2-D Model of Sound Scattering. *Applied Mechanics and Materials*, **2014**, 635-637, 13-16	0.3	1
9	Identification problem for a stationary magnetohydrodynamic model of a viscous heat-conducting fluid. *Computational Mathematics and Mathematical Physics*, **2009**, 49, 1717-1732	0.9	1
8	Active minimization of acoustic potential energy in a two-dimensional multimode waveguide. *Acoustical Physics*, **2003**, 49, 119-124	1.1	1
7	Multidimensional inverse source problems of underwater acoustics. *European Journal of Applied Mathematics*, **1998**, 9, 589-605	1	1
6	On the theory of multi-dimensional problems of radiating system synthesis. *USSR Computational Mathematics and Mathematical Physics*, **1982**, 22, 173-180		1
5	Analysis of 2-D Impedance Cloaking Problem Based on Boundary Element Method. *Applied Mechanics and Materials*, **2014**, 635-637, 3-6	0.3	
4	The axially symmetric flow-through problem for the Navier-Stokes equations in variables □orticity-stream function□ *Doklady Physics*, **2012**, 57, 301-306	0.8	

List of Publications

3	Numerical Study of Inverse Problems of Nonscattering Anisotropic Shell Theory. *Applied Mechanics and Materials*, **2012**, 249-250, 557-562	0.3
2	Optimization in designing heat flux concentrators. *Journal of Physics: Conference Series*, **2020**, 1666, 012001	0.1
1	Numerical Solution of Boundary Control Problems for Boussinesq Model of Heat Convection **2011**, 857-858	