

Gennady Alekseev

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Optimization in designing heat flux concentrators. <i>Journal of Physics: Conference Series</i> , 2020 , 1666, 012004	0.3	1
55	Optimization-based method of solving 2D thermal cloaking problems. <i>Journal of Physics: Conference Series</i> , 2019 , 1268, 012004	0.3	2
54	Control problems for the stationary MHD equations under mixed boundary conditions. <i>Journal of Physics: Conference Series</i> , 2019 , 1268, 012005	0.3	1
53	Optimization Method for Axisymmetric Problems of Electric Cloaking of Material Bodies. <i>Computational Mathematics and Mathematical Physics</i> , 2019 , 59, 207-223	0.9	6
52	Particle swarm optimization-based algorithms for solving inverse problems of designing thermal cloaking and shielding devices. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 1269-1277	4.9	23
51	Optimization method in material bodies cloaking with respect to static physical fields. <i>Journal of Inverse and Ill-Posed Problems</i> , 2019 , 27, 845-857	1.3	4
50	Analysis of a Two-Dimensional Thermal Cloaking Problem on the Basis of Optimization. <i>Computational Mathematics and Mathematical Physics</i> , 2018 , 58, 478-492	0.9	11
49	Optimization analysis of the thermal cloaking problem for a cylindrical body. <i>Doklady Physics</i> , 2017 , 62, 71-75	0.8	20
48	Optimization method in problems of acoustic cloaking of material bodies. <i>Computational Mathematics and Mathematical Physics</i> , 2017 , 57, 1459-1474	0.9	4
47	The optimization method in design problems of spherical layered thermal shells. <i>Doklady Physics</i> , 2017 , 62, 465-469	0.8	11
46	Mixed boundary value problems for steady-state magnetohydrodynamic equations of viscous incompressible fluid. <i>Computational Mathematics and Mathematical Physics</i> , 2016 , 56, 1426-1439	0.9	8
45	Solvability of an inhomogeneous boundary value problem for the stationary magnetohydrodynamic equations for a viscous incompressible fluid. <i>Differential Equations</i> , 2016 , 52, 739-748	0.7	8
44	Numerical Analysis of 2D Cloaking Problems Using Homogeneous Materials. <i>Key Engineering Materials</i> , 2016 , 685, 56-59	0.4	1
43	2D Electromagnetic Wave Scattering Problem for Cylindrical Cloak Incorporating PEMC-Layer. <i>Key Engineering Materials</i> , 2016 , 685, 75-79	0.4	1
42	An optimization method for the problems of thermal cloaking of material bodies. <i>Doklady Physics</i> , 2016 , 61, 546-550	0.8	20
41	Stability estimates of solutions to extremal problems for a nonlinear convection-diffusion-reaction equation. <i>Journal of Applied and Industrial Mathematics</i> , 2016 , 10, 155-167	0.6	15
40	Analysis and optimization in problems of cloaking of material bodies for the Maxwell equations. <i>Differential Equations</i> , 2016 , 52, 361-372	0.7	14

39	Mixed Boundary Value Problems for Stationary Magnetohydrodynamic Equations of a Viscous Heat-Conducting Fluid. <i>Journal of Mathematical Fluid Mechanics</i> , 2016 , 18, 591-607	1.4	7
38	Method of Rapid Remote Control of Casein Concentration in Dairy Products in Unopened Packages. <i>Journal of Food Process Engineering</i> , 2015 , 38, 11-18	2.4	11
37	Solvability of the boundary value problem for stationary magnetohydrodynamic equations under mixed boundary conditions for the magnetic field. <i>Applied Mathematics Letters</i> , 2014 , 32, 13-18	3.5	12
36	Cloaking via impedance boundary condition for the 2-D Helmholtz equation. <i>Applicable Analysis</i> , 2014 , 93, 254-268	0.8	20
35	Optimization method of searching parameters of an inhomogeneous liquid medium in the acoustic cloaking problem. <i>Doklady Physics</i> , 2014 , 59, 89-93	0.8	20
34	Stability estimates in the problem of cloaking material bodies for Maxwell equations. <i>Computational Mathematics and Mathematical Physics</i> , 2014 , 54, 1788-1803	0.9	18
33	Solvability of the inhomogeneous mixed boundary value problem for stationary magnetohydrodynamic equations. <i>Doklady Physics</i> , 2014 , 59, 467-471	0.8	3
32	Control Approach in Cloaking Problems for 2-D Model of Sound Scattering. <i>Applied Mechanics and Materials</i> , 2014 , 635-637, 13-16	0.3	1
31	Analysis of 2-D Impedance Cloaking Problem Based on Boundary Element Method. <i>Applied Mechanics and Materials</i> , 2014 , 635-637, 3-6	0.3	
30	Optimization in problems of material-body cloaking using the wave-flow method. <i>Doklady Physics</i> , 2013 , 58, 147-151	0.8	13
29	On stability of solutions of the coefficient inverse extremal problems for the stationary convection-diffusion equation. <i>Journal of Applied and Industrial Mathematics</i> , 2013 , 7, 1-14	0.6	9
28	Control of boundary impedance in two-dimensional material-body cloaking by the wave flow method. <i>Computational Mathematics and Mathematical Physics</i> , 2013 , 53, 1853-1869	0.9	16
27	Stability estimates for solutions of control problems for the Maxwell equations with mixed boundary conditions. <i>Differential Equations</i> , 2013 , 49, 963-974	0.7	5
26	Stability estimates for the solutions to inverse extremal problems for the Helmholtz equation. <i>Journal of Applied and Industrial Mathematics</i> , 2013 , 7, 302-312	0.6	6
25	Cloaking of material objects by controlling the impedance boundary condition for Maxwell equations. <i>Doklady Physics</i> , 2013 , 58, 482-486	0.8	12
24	Control Problems for Heat-Conducting Viscous Fluid Flow in Manufacturing Processes. <i>Applied Mechanics and Materials</i> , 2013 , 372, 373-376	0.3	2
23	Stability estimates for the solutions of control problems for the stationary magnetohydrodynamic equations. <i>Differential Equations</i> , 2012 , 48, 397-409	0.7	6
22	One class of nonscattering acoustic shells for a model of anisotropic acoustics. <i>Journal of Applied and Industrial Mathematics</i> , 2012 , 6, 1-5	0.6	15

21	Stability estimates for solutions of boundary control problems for Maxwell's equations with mixed boundary conditions. <i>Doklady Mathematics</i> , 2012 , 86, 733-737	0.7	2
20	Stability estimates in identification problems for the convection-diffusion-reaction equation. <i>Computational Mathematics and Mathematical Physics</i> , 2012 , 52, 1635-1649	0.9	28
19	The axially symmetric flow-through problem for the Navier-Stokes equations in variables [vorticity-stream function] <i>Doklady Physics</i> , 2012 , 57, 301-306	0.8	
18	Numerical Study of Inverse Problems of Nonscattering Anisotropic Shell Theory. <i>Applied Mechanics and Materials</i> , 2012 , 249-250, 557-562	0.3	
17	Theoretical analysis of boundary control extremal problems for Maxwell's equations. <i>Journal of Applied and Industrial Mathematics</i> , 2011 , 5, 478-490	0.6	5
16	Two-parameter extremum problems of boundary control for stationary thermal convection equations. <i>Computational Mathematics and Mathematical Physics</i> , 2011 , 51, 1539-1557	0.9	19
15	Stability of Optimal Controls for the Stationary Boussinesq Equations. <i>International Journal of Differential Equations</i> , 2011 , 2011, 1-28	0.8	4
14	Numerical Solution of Boundary Control Problems for Boussinesq Model of Heat Convection 2011 , 857-858		
13	On the uniqueness and stability of solutions of extremal problems for the stationary Navier-Stokes equations. <i>Differential Equations</i> , 2010 , 46, 70-82	0.7	4
12	Extremum problems of boundary control for a stationary thermal convection model. <i>Doklady Mathematics</i> , 2010 , 81, 151-155	0.7	4
11	Extremum problems of boundary control for steady equations of thermal convection. <i>Journal of Applied Mechanics and Technical Physics</i> , 2010 , 51, 510-520	0.6	12
10	Identification problem for a stationary magnetohydrodynamic model of a viscous heat-conducting fluid. <i>Computational Mathematics and Mathematical Physics</i> , 2009 , 49, 1717-1732	0.9	1
9	Identification problems for a steady-state model of mass transfer. <i>Journal of Applied Mechanics and Technical Physics</i> , 2008 , 49, 537-547	0.6	22
8	Coefficient inverse extremum problems for stationary heat and mass transfer equations. <i>Computational Mathematics and Mathematical Physics</i> , 2007 , 47, 1007-1028	0.9	19
7	Uniqueness and stability in coefficient identification problems for a stationary model of mass transfer. <i>Doklady Mathematics</i> , 2007 , 76, 797-800	0.7	8
6	Solvability of Control Problems for Stationary Equations of Magnetohydrodynamics of a Viscous Fluid. <i>Siberian Mathematical Journal</i> , 2004 , 45, 197-213	0.5	16
5	Active minimization of acoustic potential energy in a two-dimensional multimode waveguide. <i>Acoustical Physics</i> , 2003 , 49, 119-124	1.1	1
4	Solvability of Inverse Extremal Problems for Stationary Heat and Mass Transfer Equations. <i>Siberian Mathematical Journal</i> , 2001 , 42, 811-827	0.5	24

3	Solvability of stationary boundary control problems for heat convection equations. <i>Siberian Mathematical Journal</i> , 1998 , 39, 844-858	0.5	39
2	Multidimensional inverse source problems of underwater acoustics. <i>European Journal of Applied Mathematics</i> , 1998 , 9, 589-605	1	1
1	On the theory of multi-dimensional problems of radiating system synthesis. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1982 , 22, 173-180		1