

Sergey A Nazarov

List of Publications by Year in descending order

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318
papers

2,875
citations

279487

23
h-index

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36
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docs citations

318
times ranked

442
citing authors

#	ARTICLE	IF	CITATIONS
1	Asymptotic analysis of shape functionals. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2003, 82, 125-196.	0.8	150
2	The polynomial property of self-adjoint elliptic boundary-value problems and an algebraic description of their attributes. <i>Russian Mathematical Surveys</i> , 1999, 54, 947-1014.	0.2	111
3	Asymptotic expansions of eigenvalues in the continuous spectrum of a regularly perturbed quantum waveguide. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2011, 167, 606-627.	0.3	74
4	Variational and Asymptotic Methods for Finding Eigenvalues below the Continuous Spectrum Threshold. <i>Siberian Mathematical Journal</i> , 2010, 51, 866-878.	0.2	61
5	Enforced stability of a simple eigenvalue in the continuous spectrum of a waveguide. <i>Functional Analysis and Its Applications</i> , 2013, 47, 195-209.	0.1	48
6	A hinged plate equation and iterated Dirichlet Laplace operator on domains with concave corners. <i>Journal of Differential Equations</i> , 2007, 233, 151-180.	1.1	46
7	Asymptotic solution of the Navier-Stokes problem on the flow of a thin layer of fluid. <i>Siberian Mathematical Journal</i> , 1990, 31, 296-307.	0.2	44
8	Eigen-oscillations of contrasting non-homogeneous elastic bodies: asymptotic and uniform estimates for eigenvalues. <i>IMA Journal of Applied Mathematics</i> , 2005, 70, 419-458.	0.8	37
9	The Localization Effect for Eigenfunctions of the Mixed Boundary Value Problem in a Thin Cylinder with Distorted Ends. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 2581-2609.	0.9	35
10	Self-adjoint Extensions for the Neumann Laplacian and Applications. <i>Acta Mathematica Sinica, English Series</i> , 2006, 22, 879-906.	0.2	34
11	Spectral stiff problems in domains surrounded by thin bands: Asymptotic and uniform estimates for eigenvalues. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2006, 85, 598-632.	0.8	33
12	Korn inequalities for elastic junctions of massive bodies, thin plates, and rods. <i>Russian Mathematical Surveys</i> , 2008, 63, 35-107.	0.2	33
13	Edge effect in the bending of a thin three-dimensional plate. <i>Prikladnaya Matematika I Mekhanika</i> , 1989, 53, 500-507.	0.4	32
14	On the spectrum of the Steklov problem in a domain with a peak. <i>Vestnik St Petersburg University: Mathematics</i> , 2008, 41, 45-52.	0.1	31
15	Topological Derivatives for Semilinear Elliptic Equations. <i>International Journal of Applied Mathematics and Computer Science</i> , 2009, 19, 191-205.	1.5	31
16	Opening of a gap in the continuous spectrum of a periodically perturbed waveguide. <i>Mathematical Notes</i> , 2010, 87, 738-756.	0.1	29
17	The Topological Derivative of the Dirichlet Integral Under Formation of a Thin Ligament. <i>Siberian Mathematical Journal</i> , 2004, 45, 341-355.	0.2	28
18	Bounded solutions in a T-shaped waveguide and the spectral properties of the Dirichlet ladder. <i>Computational Mathematics and Mathematical Physics</i> , 2014, 54, 1261-1279.	0.2	27

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19	Asymptotic of the solution of a nonlinear equation in the neighborhood of an angular point of the boundary. <i>Mathematical Notes</i> , 1982, 31, 211-216.	0.1	24
20	Energy release caused by the kinking of a crack in a plane anisotropic solid. <i>Prikladnaya Matematika I Mekhanika</i> , 2002, 66, 491-503.	0.4	24
21	A sufficient condition for the existence of trapped modes for oblique waves in a two-layer fluid. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009, 465, 3799-3816.	1.0	24
22	Sufficient conditions on the existence of trapped modes in problems of the linear theory of surface waves. <i>Journal of Mathematical Sciences</i> , 2010, 167, 713-725.	0.1	23
23	Umov-Mandelstam radiation conditions in elastic periodic waveguides. <i>Sbornik Mathematics</i> , 2014, 205, 953-982.	0.2	23
24	A gap in the essential spectrum of a cylindrical waveguide with a periodic aperturbation of the surface. <i>Mathematische Nachrichten</i> , 2010, 283, 1222-1244.	0.4	22
25	Water-waves modes trapped in a canal by a near-surface rough body. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2010, 90, 983-1004.	0.9	22
26	Trapped modes in angular joints of 2D waveguides. <i>Applicable Analysis</i> , 2014, 93, 572-582.	0.6	22
27	Discrete spectrum of cranked, branching, and periodic waveguides. <i>St Petersburg Mathematical Journal</i> , 2012, 23, 351-379.	0.1	22
28	A criterion for the existence of decaying solutions in the problem on a resonator with a cylindrical waveguide. <i>Functional Analysis and Its Applications</i> , 2006, 40, 97-107.	0.1	21
29	Essential spectrum of a periodic elastic waveguide may contain arbitrarily many gaps. <i>Applicable Analysis</i> , 2010, 89, 109-124.	0.6	21
30	Polarization matrices in anisotropic heterogeneous elasticity. <i>Asymptotic Analysis</i> , 2010, 68, 189-221.	0.2	21
31	Radiation conditions at the top of a rotational cusp in the theory of water-waves. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2011, 45, 947-979.	0.8	21
32	Self adjoint extensions of differential operators in application to shape optimization. <i>Comptes Rendus - Mecanique</i> , 2003, 331, 667-672.	2.1	20
33	Asymptotics for the spectrum of the Wentzell problem with a small parameter and other related stiff problems. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2006, 86, 369-402.	0.8	20
34	Artificial Boundary Conditions of Pressure Type for Viscous Flows in a System of Pipes. <i>Journal of Mathematical Fluid Mechanics</i> , 2007, 9, 1-33.	0.4	20
35	The spectrum of the elasticity problem for a spiked body. <i>Siberian Mathematical Journal</i> , 2008, 49, 874-893.	0.2	20
36	The Mandelstam Energy Radiation Conditions and the Umov-Poynting Vector in Elastic Waveguides. <i>Journal of Mathematical Sciences</i> , 2013, 195, 676-729.	0.1	20

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37	On essential and continuous spectra of the linearized water-wave problem in a finite pond. <i>Mathematica Scandinavica</i> , 2010, 106, 141.	0.1	20
38	Vishik-Lyusternik method for elliptic boundary-value problems in regions with conical points. I. The problem in a cone. <i>Siberian Mathematical Journal</i> , 1982, 22, 594-611.	0.2	19
39	Trapped modes in a cylindrical elastic waveguide with a damping gasket. <i>Computational Mathematics and Mathematical Physics</i> , 2008, 48, 816-833.	0.2	19
40	Gaps in the essential spectrum of periodic elastic waveguides. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2009, 89, 729-741.	0.9	19
41	Stabilizing solutions at thresholds of the continuous spectrum and anomalous transmission of waves. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2016, 96, 1245-1260.	0.9	19
42	One-dimensional equations of deformation of thin slightly curved rods. Asymptotical analysis and justification. <i>Izvestiya Mathematics</i> , 2000, 64, 531-562.	0.1	18
43	Estimating the convergence rate for eigenfrequencies of anisotropic plates with variable thickness. <i>Comptes Rendus - Mecanique</i> , 2002, 330, 603-607.	2.1	18
44	A criterion for the existence of the essential spectrum for beak-shaped elastic bodies. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2009, 92, 628-650.	0.8	18
45	Trapping of water waves by freely floating structures in a channel. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011, 467, 3613-3632.	1.0	18
46	Enforced stability of an eigenvalue in the continuous spectrum of a waveguide with an obstacle. <i>Computational Mathematics and Mathematical Physics</i> , 2012, 52, 448-464.	0.2	18
47	Obstacles in acoustic waveguides becoming "invisible" at given frequencies. <i>Acoustical Physics</i> , 2013, 59, 633-639.	0.2	18
48	Asymptotics of Eigenvalues of a Plate with Small Clamped Zone. <i>Positivity</i> , 2001, 5, 275-295.	0.3	17
49	Title is missing!. <i>Mathematische Nachrichten</i> , 2003, 252, 86-105.	0.4	17
50	Asymptotic Analysis, Polarization Matrices, and Topological Derivatives for Piezoelectric Materials with Small Voids. <i>SIAM Journal on Control and Optimization</i> , 2010, 48, 3925-3961.	1.1	17
51	Eigenvalues of the laplace operator with the neumann conditions at regular perturbed walls of a waveguide. <i>Journal of Mathematical Sciences</i> , 2011, 172, 555-588.	0.1	17
52	Perfect transmission invisibility for waveguides with sound hard walls. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2018, 111, 79-105.	0.8	17
53	Concentration of trapped modes in problems of the linearized theory of water waves. <i>Sbornik Mathematics</i> , 2008, 199, 1783-1807.	0.2	16
54	Trapped waves in a cranked waveguide with hard walls. <i>Acoustical Physics</i> , 2011, 57, 764-771.	0.2	16

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55	A gap in the spectrum of the Neumann–Laplacian on a periodic waveguide. <i>Applicable Analysis</i> , 2013, 92, 1889-1915.	0.6	16
56	Modeling of a singularly perturbed spectral problem by means of self-adjoint extensions of the operators of the limit problems. <i>Functional Analysis and Its Applications</i> , 2015, 49, 25-39.	0.1	16
57	Steklov problems in perforated domains with a coefficient of indefinite sign. <i>Networks and Heterogeneous Media</i> , 2012, 7, 151-178.	0.5	16
58	Eigenoscillations of a string with an additional mass. <i>Siberian Mathematical Journal</i> , 1989, 29, 744-760.	0.2	15
59	Asymptotic Analysis and Modeling of the Jointing of a Massive Body with Thin Rods. <i>Journal of Mathematical Sciences</i> , 2005, 127, 2192-2262.	0.1	15
60	On the structure of the spectrum for the elasticity problem in a body with a supersharp spike. <i>Siberian Mathematical Journal</i> , 2009, 50, 587-595.	0.2	15
61	Simple method for finding trapped modes in problems of the linear theory of surface waves. <i>Doklady Mathematics</i> , 2009, 80, 914-917.	0.1	15
62	Existence of edge waves along three-dimensional periodic structures. <i>Journal of Fluid Mechanics</i> , 2010, 659, 225-246.	1.4	15
63	Korn's Inequality for an Arbitrary System of Distorted Thin Rods. <i>Siberian Mathematical Journal</i> , 2002, 43, 1069-1079.	0.2	14
64	Calculation of characteristics of trapped modes in T-shaped waveguides. <i>Computational Mathematics and Mathematical Physics</i> , 2011, 51, 96-110.	0.2	14
65	Scattering anomalies in a resonator above the thresholds of the continuous spectrum. <i>Sbornik Mathematics</i> , 2015, 206, 782-813.	0.2	14
66	Spectra of open waveguides in periodic media. <i>Journal of Functional Analysis</i> , 2015, 269, 2328-2364.	0.7	14
67	Dirichlet problem in domains with thin bridges. <i>Siberian Mathematical Journal</i> , 1984, 25, 297-313.	0.2	13
68	Asymptotics of solutions of the Neumann problem in a domain with closely posed components of the boundary. <i>Asymptotic Analysis</i> , 2009, 62, 41-88.	0.2	13
69	Hinged and supported plates with corners. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2012, 63, 929-960.	0.7	13
70	The Vishik-Lyusternik method for elliptic boundary-value problems in regions with conical points. <i>Siberian Mathematical Journal</i> , 1982, 22, 753-769.	0.2	12
71	Asymptotic Analysis for a Mixed Boundary-Value Contact Problem. <i>Archive for Rational Mechanics and Analysis</i> , 2001, 156, 275-316.	1.1	12
72	Affine Transforms of Three-Dimensional Anisotropic Media and Explicit Formulas for Fundamental Matrices. <i>Journal of Applied Mechanics and Technical Physics</i> , 2006, 47, 229-235.	0.1	12

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73	An example of multiple gaps in the spectrum of a periodic waveguide. Sbornik Mathematics, 2010, 201, 569-594.	0.2	12
74	Localized elastic fields in periodic waveguides with defects. Journal of Applied Mechanics and Technical Physics, 2011, 52, 311-320.	0.1	12
75	Asymptotic behaviour of an eigenvalue in the continuous spectrum of a narrowed waveguide. Sbornik Mathematics, 2012, 203, 153-182.	0.2	12
76	The localization for eigenfunctions of the dirichlet problem in thin polyhedra near the vertices. Siberian Mathematical Journal, 2013, 54, 517-532.	0.2	12
77	The pressure of a narrow ring-shaped punch on an elastic half-space. Prikladnaya Matematika I Mekhanika, 1996, 60, 799-812.	0.4	11
78	Asymptotic analysis of problems on junctions of domains of different limit dimensions. A body pierced by a thin rod. Izvestiya Mathematics, 1996, 60, 1-37.	0.1	11
79	Stress intensity factors and crack deviation conditions in a brittle anisotropic solid. Journal of Applied Mechanics and Technical Physics, 2005, 46, 386-394.	0.1	11
80	Artificial boundary conditions for finding surface waves in the problem of diffraction by a periodic boundary. Computational Mathematics and Mathematical Physics, 2006, 46, 2164-2175.	0.2	11
81	Asymptotics of solutions and modelling the problems of elasticity theory in domains with rapidly oscillating boundaries. Izvestiya Mathematics, 2008, 72, 509-564.	0.1	11
82	Elasticity polarization tensor, surface enthalpy, and Eshelby theorem. Journal of Mathematical Sciences, 2009, 159, 133-167.	0.1	11
83	New asymptotic effects for the spectrum of problems on concentrated masses near the boundary. Comptes Rendus - Mecanique, 2009, 337, 585-590.	2.1	11
84	Homogenization of the Spectral Problem for Periodic Elliptic Operators with Sign-Changing Density Function. Archive for Rational Mechanics and Analysis, 2011, 200, 747-788.	1.1	11
85	The asymptotic analysis of gaps in the spectrum of a waveguide perturbed with a periodic family of small voids. Journal of Mathematical Sciences, 2012, 186, 247-301.	0.1	11
86	On the spectrum of the Laplace operator on the infinite Dirichlet ladder. St Petersburg Mathematical Journal, 2012, 23, 1023-1045.	0.1	11
87	Elastic waves trapped by a homogeneous anisotropic semicylinder. Sbornik Mathematics, 2013, 204, 1639-1670.	0.2	11
88	The YÊ junction of quantum waveguides. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2014, 94, 477-486.	0.9	11
89	Non-scattering wavenumbers and far field invisibility for a finite set of incident/scattering directions. Inverse Problems, 2015, 31, 045006.	1.0	11
90	The spatial structure of the stress field in the neighbourhood of the corner point of a thin plate. Prikladnaya Matematika I Mekhanika, 1991, 55, 523-530.	0.4	10

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91	On three-dimensional effects near the vertex of a crack in a thin plate. <i>Prikladnaya Matematika I Mekhanika</i> , 1991, 55, 407-415.	0.4	10
92	The essential spectrum of boundary value problems for systems of differential equations in a bounded domain with a cusp. <i>Functional Analysis and Its Applications</i> , 2009, 43, 44-54.	0.1	10
93	The Eshelby Theorem and Application to the Optimization of an Elastic Patch. <i>SIAM Journal on Applied Mathematics</i> , 2012, 72, 512-534.	0.8	10
94	Spectral gaps in the dirichlet and neumann problems on the plane perforated by a doubleperiodic family of circular holes. <i>Journal of Mathematical Sciences</i> , 2012, 181, 164-222.	0.1	10
95	Asymptotic behavior of spectral gaps in a regularly perturbed periodic waveguide. <i>Vestnik St Petersburg University: Mathematics</i> , 2013, 46, 89-97.	0.1	10
96	Bound states of a converging quantum waveguide. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2013, 47, 305-315.	0.8	10
97	Asymptotics of eigenvalues of the Dirichlet problem in a skewed $\hat{\alpha}$ -shaped waveguide. <i>Computational Mathematics and Mathematical Physics</i> , 2014, 54, 811-830.	0.2	10
98	Spectral stiff problems in domains surrounded by thin stiff and heavy bands: Local effects for eigenfunctions. <i>Networks and Heterogeneous Media</i> , 2011, 6, 1-35.	0.5	10
99	Asymptotic solution to the problem of an elastic body lying on several small supports. <i>Prikladnaya Matematika I Mekhanika</i> , 1994, 58, 303-311.	0.4	9
100	Use of the energy criterion of fracture to determine the shape of a slightly curved crack. <i>Journal of Applied Mechanics and Technical Physics</i> , 2006, 47, 714-723.	0.1	9
101	Gaps and eigenfrequencies in the spectrum of a periodic acoustic waveguide. <i>Acoustical Physics</i> , 2013, 59, 272-280.	0.2	9
102	Discrete Spectrum of Cross-Shaped Quantum Waveguides. <i>Journal of Mathematical Sciences</i> , 2014, 196, 346-376.	0.1	9
103	Underwater topography invisible for surface waves at given frequencies. <i>Wave Motion</i> , 2015, 57, 129-142.	1.0	9
104	A method to build non-scattering perturbations of two-dimensional acoustic waveguides. <i>Mathematical Methods in the Applied Sciences</i> , 2017, 40, 335-349.	1.2	9
105	Invisibility and Perfect Reflectivity in Waveguides with Finite Length Branches. <i>SIAM Journal on Applied Mathematics</i> , 2018, 78, 2176-2199.	0.8	9
106	Singularities of solutions of the Neumann problem at a conical point. <i>Siberian Mathematical Journal</i> , 1990, 30, 387-396.	0.2	8
107	Asymptotics of the solution of a dirichlet problem in an angular domain with a periodically changing boundary. <i>Mathematical Notes</i> , 1991, 49, 502-509.	0.1	8
108	Elliptic boundary value problems in hybrid domains. <i>Functional Analysis and Its Applications</i> , 2004, 38, 283-297.	0.1	8

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109	Asymptotics of the solution of the Steklov spectral problem in a domain with a blunted peak. <i>Mathematical Notes</i> , 2009, 86, 542-555.	0.1	8
110	The spectrum asymptotics for the Dirichlet problem in the case of the biharmonic operator in a domain with highly indented boundary. <i>St Petersburg Mathematical Journal</i> , 2011, 22, 941-983.	0.1	8
111	Spectral properties of a thin layer with a doubly periodic family of thinning regions. <i>Theoretical and Mathematical Physics (Russian Federation)</i> , 2013, 174, 343-359.	0.3	8
112	Asymptotics of an eigenvalue on the continuous spectrum of two quantum waveguides coupled through narrow windows. <i>Mathematical Notes</i> , 2013, 93, 266-281.	0.1	8
113	On multi-scale asymptotic structure of eigenfunctions in a boundary value problem with concentrated masses near the boundary. <i>Revista Matematica Complutense</i> , 2018, 31, 1-62.	0.7	8
114	Asymptotics of the solution of the Dirichlet problem in domains with a thin crosspiece. <i>Functional Analysis and Its Applications</i> , 1982, 16, 108-114.	0.1	7
115	Absence of De Giorgi-type theorems for strongly elliptic equations with complex coefficients. <i>Journal of Soviet Mathematics</i> , 1985, 28, 726-734.	0.0	7
116	Derivation of limiting equations for elliptic problems in thin domains using computers. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1986, 26, 47-58.	0.0	7
117	Perturbations of solutions of the Signorini problem for a second-order scalar equation. <i>Mathematical Notes</i> , 1990, 47, 75-82.	0.1	7
118	Asymptotic solution to the Signorini problem with small parts of the free boundary. <i>Siberian Mathematical Journal</i> , 1994, 35, 231-249.	0.2	7
119	Approximation of smooth contours by polygonal ones. Paradoxes in problems for the Lamé system. <i>Izvestiya Mathematics</i> , 1997, 61, 619-646.	0.1	7
120	Asymptotically sharp uniform estimates in a scalar spectral stiff problem. <i>Comptes Rendus - Mecanique</i> , 2003, 331, 325-330.	2.1	7
121	Korn's Inequalities for Junctions of Elastic Bodies with Thin Plates. <i>Siberian Mathematical Journal</i> , 2005, 46, 695-706.	0.2	7
122	Estimates for the Second Order Derivatives of Eigenvectors in Thin Anisotropic Plates with Variable Thickness. <i>Journal of Mathematical Sciences</i> , 2006, 132, 91-102.	0.1	7
123	Asymptotics of Neumann harmonics when a cavity is close to the exterior boundary of the domain. <i>Comptes Rendus - Mecanique</i> , 2007, 335, 763-767.	2.1	7
124	Gap in the essential spectrum of the Neumann problem for an elliptic system in a periodic domain. <i>Functional Analysis and Its Applications</i> , 2009, 43, 239-241.	0.1	7
125	Absorption effect for elastic waves by the beak-shaped boundary irregularity. <i>Doklady Physics</i> , 2009, 54, 146-150.	0.2	7
126	Asymptotics of the frequencies of elastic waves trapped by a small crack in a cylindrical waveguide. <i>Mechanics of Solids</i> , 2010, 45, 856-864.	0.3	7

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127	Homogenization of the spectral Dirichlet problem for a system of differential equations with rapidly oscillating coefficients and changing sign density. Journal of Mathematical Sciences, 2010, 169, 212-248.	0.1	7
128	Gap in the essential spectrum of an elliptic formally self-adjoint system of differential equations. Differential Equations, 2010, 46, 730-741.	0.1	7
129	Surface enthalpy and elastic properties of blood vessels. Doklady Physics, 2011, 56, 560-566.	0.2	7
130	Incomplete comparison principle in problems about surface waves trapped by fixed and freely floating bodies. Journal of Mathematical Sciences, 2011, 175, 309-348.	0.1	7
131	On the rate of convergence for perforated plates with a small interior Dirichlet zone. Zeitschrift Fur Angewandte Mathematik Und Physik, 2011, 62, 439-468.	0.7	7
132	Homogenization of a thin plate reinforced with periodic families of rigid rods. Sbornik Mathematics, 2011, 202, 1127-1168.	0.2	7
133	A curious instability phenomenon for a rounded corner in presence of a negative material. Asymptotic Analysis, 2014, 88, 43-74.	0.2	7
134	One-Dimensional Model of Viscoelastic Blood Flow Through a Thin Elastic Vessel. Journal of Mathematical Sciences, 2015, 207, 249-269.	0.1	7
135	“Blinking eigenvalues” of the Steklov problem generate the continuous spectrum in a cuspidal domain. Journal of Differential Equations, 2020, 269, 2774-2797.	1.1	7
136	Team organization may help swarms of flies to become invisible in closed waveguides. Inverse Problems and Imaging, 2016, 10, 977-1006.	0.6	7
137	The asymptotic form of the stress-strain state near a spatial singularity of the boundary of the “beak tip”-type. Prikladnaya Matematika I Mekhanika, 1993, 57, 887-902.	0.4	6
138	A generalized Green's formula for elliptic problems in domains with edges. Journal of Mathematical Sciences, 1995, 73, 674-700.	0.1	6
139	Steady flows of Jeffrey “Hamel type from the half-plane into an infinite channel. 1. Linearization on an antisymmetric solution. Journal Des Mathematiques Pures Et Appliquees, 2001, 80, 1069-1098.	0.8	6
140	Estimates for the accuracy of modelling boundary-value problems at the junction of domains with different limit dimensions. Izvestiya Mathematics, 2004, 68, 1179-1215.	0.1	6
141	Reynolds type equation for a thin flow under intensive transverse percolation. Mathematische Nachrichten, 2004, 269-270, 189-209.	0.4	6
142	Weighted Korn inequalities for thin-walled elastic structures. Comptes Rendus - Mecanique, 2006, 334, 707-712.	2.1	6
143	Eigenoscillations of an elastic body with a rough surface. Journal of Applied Mechanics and Technical Physics, 2007, 48, 861-870.	0.1	6
144	A gap in the continuous spectrum of an elastic waveguide. Comptes Rendus - Mecanique, 2008, 336, 751-756.	2.1	6

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145	Gap detection in the spectrum of an elastic periodic waveguide with a free surface. <i>Computational Mathematics and Mathematical Physics</i> , 2009, 49, 323-333.	0.2	6
146	Singular Perturbations of Curved Boundaries in Three Dimensions. The Spectrum of the Neumann Laplacian. <i>Zeitschrift Fur Analysis Und Ihre Anwendung</i> , 2011, 30, 145-180.	0.8	6
147	An optimization problem for the Biharmonic equation with Sobolev conditions. <i>Journal of Mathematical Sciences</i> , 2011, 176, 786-796.	0.1	6
148	Asymptotic behavior of the eigenvalues of the Steklov problem on a junction of domains of different limiting dimensions. <i>Computational Mathematics and Mathematical Physics</i> , 2012, 52, 1574-1589.	0.2	6
149	Waves trapped by a thin curved screen in a waveguide with rigid walls. <i>Acoustical Physics</i> , 2012, 58, 633-641.	0.2	6
150	Spectral gaps for water waves above a corrugated bottom. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20120545.	1.0	6
151	Structure of the spectrum of a net of quantum waveguides and bounded solutions of a model problem at the threshold. <i>Doklady Mathematics</i> , 2014, 90, 637-641.	0.1	6
152	Asymptotics of the spectrum of the Dirichlet Laplacian on a thin carbon nano-structure. <i>Comptes Rendus - Mecanique</i> , 2015, 343, 360-364.	2.1	6
153	Linearised theory for surface and interfacial waves interacting with freely floating bodies in a two-layer fluid. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2015, 66, 417-432.	0.7	6
154	On singularities of the stress function at the corner points of the transverse cross-section of a twisted bar with a thin reinforcing layer. <i>Prikladnaya Matematika I Mekhanika</i> , 1983, 47, 94-103.	0.4	5
155	The vertex of a cone can be nonregular in the Wiener sense for a fourth-order elliptic equation. <i>Mathematical Notes</i> , 1986, 39, 14-16.	0.1	5
156	Singularities of the gradient of the solution of the Neumann problem at the vertex of a cone. <i>Mathematical Notes</i> , 1987, 42, 555-563.	0.1	5
157	Asymptotic behaviour of stress-strain state in the vicinity of sharp defects in an elastic body. <i>IMA Journal of Applied Mathematics</i> , 1992, 49, 245-272.	0.8	5
158	Artificial boundary conditions for Petrovsky systems of second order in exterior domains and in other domains of conical type. <i>Mathematical Methods in the Applied Sciences</i> , 2004, 27, 1507-1544.	1.2	5
159	Nonlinear artificial boundary conditions for the Navier-Stokes equations in an aperture domain. <i>Mathematische Nachrichten</i> , 2004, 265, 24-67.	0.4	5
160	A criterion of the continuous spectrum for elasticity and other self-adjoint systems on sharp peak-shaped domains. <i>Comptes Rendus - Mecanique</i> , 2007, 335, 751-756.	2.1	5
161	Asymptotics of the solution to the Neumann problem in a thin domain with sharp edge. <i>Journal of Mathematical Sciences</i> , 2007, 142, 2630-2644.	0.1	5
162	Concentration of the point spectrum on the continuous one in problems of linear water-wave theory. <i>Journal of Mathematical Sciences</i> , 2008, 152, 674-689.	0.1	5

#	ARTICLE	IF	CITATIONS
163	Asymptotics of negative eigenvalues of the Dirichlet problem with the density changing sign. Journal of Mathematical Sciences, 2009, 163, 151-175.	0.1	5
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