

Sergey A Nazarov

List of Publications by Year in descending order

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318
papers

2,875
citations

279487

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times ranked

442
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic passive cloaking using thin outer resonators. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2022, 73, 1.	0.7	2
2	Localization effects for Dirichlet problems in domains surrounded by thin stiff and heavy bands. <i>Journal of Differential Equations</i> , 2021, 270, 1160-1195.	1.1	4
3	Surface waves in a channel with thin tunnels and wells at the bottom: Non-reflecting underwater topography. <i>Asymptotic Analysis</i> , 2020, 118, 81-122.	0.2	4
4	Plummeting and blinking eigenvalues of the Robin Laplacian in a cuspidal domain. <i>Proceedings of the Royal Society of Edinburgh Section A: Mathematics</i> , 2020, 150, 2871-2893.	0.8	3
5	“Blinking eigenvalues” of the Steklov problem generate the continuous spectrum in a cuspidal domain. <i>Journal of Differential Equations</i> , 2020, 269, 2774-2797.	1.1	7
6	Asymptotic analysis of an elastic rod with rounded ends. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 6396-6415.	1.2	3
7	Essential spectrum of a periodic waveguide with non-periodic perturbation. <i>Journal of Mathematical Analysis and Applications</i> , 2018, 463, 922-933.	0.5	2
8	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
9	Perfect transmission invisibility for waveguides with sound hard walls. <i>Journal Des Mathematiques Pures Et Appliquees</i> , 2018, 111, 79-105.	0.8	17
10	Singularities at the contact point of two kissing Neumann balls. <i>Journal of Differential Equations</i> , 2018, 264, 1521-1549.	1.1	2
11	Embedded Eigenvalues for Water-Waves in a Three-Dimensional Channel with a Thin Screen. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 2018, 71, 187-220.	0.5	2
12	Oscillating behaviour of the spectrum for a plasmonic problem in a domain with a rounded corner. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2018, 52, 1285-1313.	0.8	4
13	Invisibility and Perfect Reflectivity in Waveguides with Finite Length Branches. <i>SIAM Journal on Applied Mathematics</i> , 2018, 78, 2176-2199.	0.8	9
14	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
15	Radiation conditions for the linear water-wave problem in periodic channels. <i>Mathematische Nachrichten</i> , 2017, 290, 1753-1778.	0.4	2
16	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
17	Trapped modes supported by localized potentials in the zigzag graphene ribbon. <i>Comptes Rendus Mathematique</i> , 2016, 354, 63-67.	0.1	3
18	Elastic and piezoelectric waveguides may have infinite number of gaps in their spectra. <i>Comptes Rendus - Mecanique</i> , 2016, 344, 190-194.	2.1	1

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19	Trapped Modes in Piezoelectric and Elastic Waveguides. <i>Journal of Elasticity</i> , 2016, 124, 193-223.	0.9	3
20	Team organization may help swarms of flies to become invisible in closed waveguides. <i>Inverse Problems and Imaging</i> , 2016, 10, 977-1006.	0.6	7
21	Spectra of three-dimensional cruciform and lattice quantum waveguides. <i>Doklady Mathematics</i> , 2015, 92, 514-518.	0.1	4
22	Spectrum of a diffusion operator with coefficient changing sign over a small inclusion. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2015, 66, 2173-2196.	0.7	3
23	Spectrum of the linear water model for a two-layer liquid with cuspidal geometries at the interface. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2015, 95, 859-876.	0.9	1
24	Non-scattering wavenumbers and far field invisibility for a finite set of incident/scattering directions. <i>Inverse Problems</i> , 2015, 31, 045006.	1.0	11
25	Scattering anomalies in a resonator above the thresholds of the continuous spectrum. <i>Sbornik Mathematics</i> , 2015, 206, 782-813.	0.2	14
26	The Eshelby Theorem and its Variants for Piezoelectric Media. <i>Archive for Rational Mechanics and Analysis</i> , 2015, 215, 707-739.	1.1	3
27	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
28	Perturbation analysis of embedded eigenvalues for water-waves. <i>Journal of Mathematical Analysis and Applications</i> , 2015, 427, 399-427.	0.5	1
29	Underwater topography invisible for surface waves at given frequencies. <i>Wave Motion</i> , 2015, 57, 129-142.	1.0	9
30	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
31	Gap Opening Around a Given Point of the Spectrum of a Cylindrical Waveguide by Means of a Gentle Periodic Perturbation of Walls. <i>Journal of Mathematical Sciences</i> , 2015, 206, 288-314.	0.1	1
32	One-Dimensional Model of Viscoelastic Blood Flow Through a Thin Elastic Vessel. <i>Journal of Mathematical Sciences</i> , 2015, 207, 249-269.	0.1	7
33	Eigenmodes of a thin elastic layer between periodic rigid profiles. <i>Computational Mathematics and Mathematical Physics</i> , 2015, 55, 1684-1697.	0.2	0
34	Bound states of waveguides with two right-angled bends. <i>Journal of Mathematical Physics</i> , 2015, 56, .	0.5	4
35	Spectral gaps for periodic piezoelectric waveguides. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2015, 66, 3017-3047.	0.7	5
36	Approximation of Thin Three-Dimensional Plates with Smooth Lateral Surface by Polygonal Plates. <i>Journal of Mathematical Sciences</i> , 2015, 210, 399-428.	0.1	1

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37	Spectra of open waveguides in periodic media. Journal of Functional Analysis, 2015, 269, 2328-2364.	0.7	14
38	Linearised theory for surface and interfacial waves interacting with freely floating bodies in a two-layer fluid. Zeitschrift Fur Angewandte Mathematik Und Physik, 2015, 66, 417-432.	0.7	6
39	The eigenfrequencies of a slightly curved isotropic strip clamped between absolutely rigid profiles. Prikladnaya Matematika I Mekhanika, 2014, 78, 374-383.	0.4	3
40	Localization of elastic oscillations in cross-shaped planar orthotropic waveguides. Doklady Physics, 2014, 59, 411-415.	0.2	3
41	A curious instability phenomenon for a rounded corner in presence of a negative material. Asymptotic Analysis, 2014, 88, 43-74.	0.2	7
42	Crack propagation in anisotropic composite structures. Asymptotic Analysis, 2014, 86, 123-153.	0.2	4
43	The Y-junction of quantum waveguides. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2014, 94, 477-486.	0.9	11
44	Korn inequality for a thin rod with rounded ends. Mathematical Methods in the Applied Sciences, 2014, 37, 2463-2483.	1.2	3
45	Umov-Mandelstam radiation conditions in elastic periodic waveguides. Sbornik Mathematics, 2014, 205, 953-982.	0.2	23
46	Structure of the spectrum of a net of quantum waveguides and bounded solutions of a model problem at the threshold. Doklady Mathematics, 2014, 90, 637-641.	0.1	6
47	Scalar boundary value problems on junctions of thin rods and plates. ESAIM: Mathematical Modelling and Numerical Analysis, 2014, 48, 1495-1528.	0.8	5
48	Discrete Spectrum of Cross-Shaped Quantum Waveguides. Journal of Mathematical Sciences, 2014, 196, 346-376.	0.1	9
49	Criteria for trapped modes in a cranked channel with fixed and freely floating bodies. Zeitschrift Fur Angewandte Mathematik Und Physik, 2014, 65, 977-1002.	0.7	4
50	Bounded solutions in a T-shaped waveguide and the spectral properties of the Dirichlet ladder. Computational Mathematics and Mathematical Physics, 2014, 54, 1261-1279.	0.2	27
51	Asymptotic analysis of thin piezoelectric rods. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2014, 94, 529-550.	0.9	1
52	Trapped modes in angular joints of 2D waveguides. Applicable Analysis, 2014, 93, 572-582.	0.6	22
53	Asymptotics of eigenvalues of the Dirichlet problem in a skewed $\hat{\alpha}$ -shaped waveguide. Computational Mathematics and Mathematical Physics, 2014, 54, 811-830.	0.2	10
54	Nonreflection and trapping of elastic waves in a slightly curved isotropic strip. Doklady Physics, 2014, 59, 139-143.	0.2	3

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55	Asymptotic behavior of spectral gaps in a regularly perturbed periodic waveguide. Vestnik St Petersburg University: Mathematics, 2013, 46, 89-97.	0.1	10
56	Scheme for interpretation of approximately computed eigenvalues embedded in a continuous spectrum. Computational Mathematics and Mathematical Physics, 2013, 53, 702-720.	0.2	2
57	The localization for eigenfunctions of the dirichlet problem in thin polyhedra near the vertices. Siberian Mathematical Journal, 2013, 54, 517-532.	0.2	12
58	Spectral properties of a thin layer with a doubly periodic family of thinning regions. Theoretical and Mathematical Physics(Russian Federation), 2013, 174, 343-359.	0.3	8
59	Gaps and eigenfrequencies in the spectrum of a periodic acoustic waveguide. Acoustical Physics, 2013, 59, 272-280.	0.2	9
60	Localization Estimates for Eigenfrequencies of Waves Trapped by a Freely Floating Body in a Channel. SIAM Journal on Mathematical Analysis, 2013, 45, 2523-2545.	0.9	2
61	Energy release rates near the interface between two anisotropic solids. Engineering Fracture Mechanics, 2013, 108, 162-169.	2.0	0
62	Elastic waves trapped by a semi-infinite orthotropic cylinder. Doklady Physics, 2013, 58, 491-495.	0.2	0
63	The Mandelstam Energy Radiation Conditions and the Umov's Poynting Vector in Elastic Waveguides. Journal of Mathematical Sciences, 2013, 195, 676-729.	0.1	20
64	Properties of the spectrum in the John problem on a freely floating submerged body in a finite basin. Differential Equations, 2013, 49, 1544-1559.	0.1	0
65	Enforced stability of a simple eigenvalue in the continuous spectrum of a waveguide. Functional Analysis and Its Applications, 2013, 47, 195-209.	0.1	48
66	Structure of the Spectrum of a Periodic Family of Identical Cells Connected by Converging Apertures. Journal of Mathematical Sciences, 2013, 194, 72-82.	0.1	1
67	Asymptotic Models of the Blood Flow in Arteries and Veins. Journal of Mathematical Sciences, 2013, 194, 44-57.	0.1	5
68	Obstacles in acoustic waveguides becoming "invisible" at given frequencies. Acoustical Physics, 2013, 59, 633-639.	0.2	18
69	Asymptotic properties of the spectrum in the problem on waves in a bounded volume on a two-layer fluid. Prikladnaya Matematika I Mekhanika, 2013, 77, 494-507.	0.4	0
70	Asymptotic behavior of trapped modes in two-layer fluids. Wave Motion, 2013, 50, 111-126.	1.0	5
71	Asymptotics of an eigenvalue on the continuous spectrum of two quantum waveguides coupled through narrow windows. Mathematical Notes, 2013, 93, 266-281.	0.1	8
72	Elastic waves trapped by a homogeneous anisotropic semicylinder. Sbornik Mathematics, 2013, 204, 1639-1670.	0.2	11

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73	Nonreflecting distortions of an isotropic strip clamped between rigid punches. Computational Mathematics and Mathematical Physics, 2013, 53, 1512-1522.	0.2	2
74	Spectral gaps for water waves above a corrugated bottom. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20120545.	1.0	6
75	Asymptotics of eigen-oscillations of a massive elastic body with a thin baffle. Izvestiya Mathematics, 2013, 77, 87-142.	0.1	1
76	A gap in the spectrum of the Neumann Laplacian on a periodic waveguide. Applicable Analysis, 2013, 92, 1889-1915.	0.6	16
77	Bound states of a converging quantum waveguide. ESAIM: Mathematical Modelling and Numerical Analysis, 2013, 47, 305-315.	0.8	10
78	On the Hadamard Formula for Second Order Systems in Non-Smooth Domains. Communications in Partial Differential Equations, 2012, 37, 901-933.	1.0	5
79	Asymptotic behaviour of an eigenvalue in the continuous spectrum of a narrowed waveguide. Sbornik Mathematics, 2012, 203, 153-182.	0.2	12
80	Concentration of frequencies of trapped waves in problems on freely floating bodies. Sbornik Mathematics, 2012, 203, 1269-1294.	0.2	1
81	Asymptotic formulas for trapped modes and for eigenvalues below the threshold of the continuous spectrum of a waveguide with a thin screening barrier. St Petersburg Mathematical Journal, 2012, 23, 571-601.	0.1	3
82	The Eshelby Theorem and Application to the Optimization of an Elastic Patch. SIAM Journal on Applied Mathematics, 2012, 72, 512-534.	0.8	10
83	Gaps in the spectrum of the Neumann problem on a perforated plane. Doklady Mathematics, 2012, 86, 574-578.	0.1	0
84	Asymptotics of eigenfrequencies in the spectral gaps caused by a perturbation of a periodic waveguide. Doklady Mathematics, 2012, 86, 871-875.	0.1	1
85	Asymptotics of the frequency of a surface wave trapped by a slightly inclined barrier in a liquid layer. Journal of Mathematical Sciences, 2012, 185, 536-553.	0.1	1
86	Two-sided estimates for eigenfrequencies in the John problem for a freely floating body. Journal of Mathematical Sciences, 2012, 185, 707-720.	0.1	0
87	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
88	Asymptotic behavior of the eigenvalues of the Steklov problem on a junction of domains of different limiting dimensions. Computational Mathematics and Mathematical Physics, 2012, 52, 1574-1589.	0.2	6
89	Asymptotic model of interaction of blood flow with vein walls and the surrounding muscular tissue. Doklady Physics, 2012, 57, 411-416.	0.2	3
90	Waves trapped by a thin curved screen in a waveguide with rigid walls. Acoustical Physics, 2012, 58, 633-641.	0.2	6

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91	Hinged and supported plates with corners. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2012, 63, 929-960.	0.7	13
92	On the spectrum of the Laplace operator on the infinite Dirichlet ladder. <i>St Petersburg Mathematical Journal</i> , 2012, 23, 1023-1045.	0.1	11
93	Asymptotic analysis of 3D thin anisotropic plates with a piezoelectric patch. <i>Mathematical Methods in the Applied Sciences</i> , 2012, 35, 633-658.	1.2	4
94	Notes to the proof of a weighted Korn inequality for an elastic body with peak-shaped cusps. <i>Journal of Mathematical Sciences</i> , 2012, 181, 632-667.	0.1	3
95	Asymptotics of solutions to the spectral elasticity problem for a spatial body with a thin coupler. <i>Siberian Mathematical Journal</i> , 2012, 53, 274-290.	0.2	4
96	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
97	Asymptotics of the reflection coefficient at critical frequencies in a narrowing waveguide. <i>Russian Journal of Mathematical Physics</i> , 2012, 19, 216-233.	0.4	0
98	Localization of surface waves by small perturbations of the boundary of a semisubmerged body. <i>Journal of Applied and Industrial Mathematics</i> , 2012, 6, 216-223.	0.1	0
99	Korn Inequalities for a Reinforced Plate. <i>Journal of Elasticity</i> , 2012, 106, 43-69.	0.9	4
100	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
101	Optimal Location of Support Points in the Kirchhoff Plate. <i>Springer Optimization and Its Applications</i> , 2012, , 93-116.	0.6	2
102	Discrete spectrum of cranked, branching, and periodic waveguides. <i>St Petersburg Mathematical Journal</i> , 2012, 23, 351-379.	0.1	22
103	Steklov problems in perforated domains with a coefficient of indefinite sign. <i>Networks and Heterogeneous Media</i> , 2012, 7, 151-178.	0.5	16
104	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
105	A body traps as many water-wave modes in a symmetric channel as it wishes. <i>Russian Journal of Mathematical Physics</i> , 2011, 18, 183-194.	0.4	4
106	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
107	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
108	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

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109	Localized elastic fields in periodic waveguides with defects. Journal of Applied Mechanics and Technical Physics, 2011, 52, 311-320.	0.1	12
110	Perturbation of an eigenvalue in the continuous spectrum of a waveguide with an asymmetric obstacle. Doklady Mathematics, 2011, 84, 734-739.	0.1	0
111	Localization near the corner point of the principal eigenfunction of the Dirichlet problem in a domain with thin edging. Siberian Mathematical Journal, 2011, 52, 274-290.	0.2	3
112	Calculation of characteristics of trapped modes in T-shaped waveguides. Computational Mathematics and Mathematical Physics, 2011, 51, 96-110.	0.2	14
113	Paradoxes in problems on bending of polygonal plates with a hinged/supported edge. Doklady Physics, 2011, 56, 439-443.	0.2	4
114	Surface enthalpy and elastic properties of blood vessels. Doklady Physics, 2011, 56, 560-566.	0.2	7
115	Trapped waves in a cranked waveguide with hard walls. Acoustical Physics, 2011, 57, 764-771.	0.2	16
116	Asymptotic formula for an eigenvalue of the Dirichlet problem in a cranked waveguide. Vestnik St Petersburg University: Mathematics, 2011, 44, 190-196.	0.1	4
117	On the spectrum of the Robin problem in a domain with a peak. Functional Analysis and Its Applications, 2011, 45, 77-79.	0.1	3
118	Eigenvalues of the Laplace operator with the Neumann conditions at regular perturbed walls of a waveguide. Journal of Mathematical Sciences, 2011, 172, 555-588.	0.1	17
119	Asymptotics of solutions and modeling of the Von Karman equations in a singularly perturbed domain. Journal of Mathematical Sciences, 2011, 173, 571-608.	0.1	0
120	Asymptotics of solutions to the spectral elasticity problem for a two-dimensional body with a small cavern. Journal of Mathematical Sciences, 2011, 173, 737-768.	0.1	1
121	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
122	The point spectrum of the water-wave problem in intersecting channels. Journal of Mathematical Sciences, 2011, 175, 685-697.	0.1	1
123	An optimization problem for the Biharmonic equation with Sobolev conditions. Journal of Mathematical Sciences, 2011, 176, 786-796.	0.1	6
124	On the asymptotics and stability of the point spectrum of a waveguide with thin shielding obstacle. Journal of Mathematical Sciences, 2011, 178, 292-312.	0.1	3
125	Non-quasielliptic boundary-value problems in a cylinder with regularly degenerate model problem on the cross-section. Journal of Mathematical Sciences, 2011, 179, 515-536.	0.1	0
126	Asymptotic expansions of eigenvalues in the continuous spectrum of a regularly perturbed quantum waveguide. Theoretical and Mathematical Physics (Russian Federation), 2011, 167, 606-627.	0.3	74

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127	On the rate of convergence for perforated plates with a small interior Dirichlet zone. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2011, 62, 439-468.	0.7	7
128	Homogenization of the Spectral Problem for Periodic Elliptic Operators with Sign-Changing Density Function. <i>Archive for Rational Mechanics and Analysis</i> , 2011, 200, 747-788.	1.1	11
129	Modeling of Cracks with Nonlinear Effects at the Tip Zones and the Generalized Energy Criterion. <i>Archive for Rational Mechanics and Analysis</i> , 2011, 202, 1019-1057.	1.1	2
130	The Stokes problem in a periodic layer. <i>Mathematische Nachrichten</i> , 2011, 284, 1201-1218.	0.4	0
131	Trapped surface waves in a periodic layer of a heavy liquid. <i>Prikladnaya Matematika I Mekhanika</i> , 2011, 75, 235-244.	0.4	4
132	Homogenization of a thin plate reinforced with periodic families of rigid rods. <i>Sbornik Mathematics</i> , 2011, 202, 1127-1168.	0.2	7
133	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
134	Existence of edge waves along three-dimensional periodic structures. <i>Journal of Fluid Mechanics</i> , 2010, 659, 225-246.	1.4	15
135	Homogenization of the mixed boundary-value problem for a formally selfadjoint elliptic system in a periodically punched domain. <i>St Petersburg Mathematical Journal</i> , 2010, 21, 601-634.	0.1	4
136	Opening gaps in the spectrum of the water-wave problem in a periodic channel. <i>Computational Mathematics and Mathematical Physics</i> , 2010, 50, 1038-1054.	0.2	2
137	Artificial boundary conditions for elliptic systems on polyhedral truncation surfaces. <i>Journal of Applied and Industrial Mathematics</i> , 2010, 4, 99-116.	0.1	0
138	Surface enthalpy and quasistatic propagation of cracks in an anisotropic body. <i>Mechanics of Solids</i> , 2010, 45, 57-66.	0.3	0
139	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
140	Homogenization of the spectral Dirichlet problem for a system of differential equations with rapidly oscillating coefficients and changing sign density. <i>Journal of Mathematical Sciences</i> , 2010, 169, 212-248.	0.1	7
141	Asymptotic modeling of the problem with contrasting stiffness. <i>Journal of Mathematical Sciences</i> , 2010, 167, 692-712.	0.1	2
142	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
143	Gap in a continuous spectrum of an elastic waveguide with a partly clamped surface. <i>Journal of Applied Mechanics and Technical Physics</i> , 2010, 51, 114-124.	0.1	2
144	Variational and Asymptotic Methods for Finding Eigenvalues below the Continuous Spectrum Threshold. <i>Siberian Mathematical Journal</i> , 2010, 51, 866-878.	0.2	61

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145	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
146	The flexural rigidity of a thin plate reinforced with periodic systems of separated rods. <i>Prikladnaya Matematika I Mekhanika</i> , 2010, 74, 313-322.	0.4	3
147	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
148	Opening of a gap in the continuous spectrum of a periodically perturbed waveguide. <i>Mathematical Notes</i> , 2010, 87, 738-756.	0.1	29
149	Gap in the essential spectrum of an elliptic formally self-adjoint system of differential equations. <i>Differential Equations</i> , 2010, 46, 730-741.	0.1	7
150	The Eshelby theorem and patch optimization problem. <i>St Petersburg Mathematical Journal</i> , 2010, 21, 791-791.	0.1	4
151	Homogenization of a mixed boundary-value problem in a domain with anisotropic fractal perforation. <i>Izvestiya Mathematics</i> , 2010, 74, 379-409.	0.1	2
152	An example of multiple gaps in the spectrum of a periodic waveguide. <i>Sbornik Mathematics</i> , 2010, 201, 569-594.	0.2	12
153	Essential spectrum of a periodic elastic waveguide may contain arbitrarily many gaps. <i>Applicable Analysis</i> , 2010, 89, 109-124.	0.6	21
154	Polarization matrices in anisotropic heterogeneous elasticity. <i>Asymptotic Analysis</i> , 2010, 68, 189-221.	0.2	21
155	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
156	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
157	Spectra of Two-Dimensional Models for Thin Plates with Sharp Edges. <i>SIAM Journal on Mathematical Analysis</i> , 2010, 42, 3020-3044.	0.9	5
158	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
159	Gap opening in the essential spectrum of the elasticity theory problem in a periodic half-layer. <i>St Petersburg Mathematical Journal</i> , 2010, 21, 281-307.	0.1	3
160	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
161	Topological Derivatives for Semilinear Elliptic Equations. <i>International Journal of Applied Mathematics and Computer Science</i> , 2009, 19, 191-205.	1.5	31
162	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

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163	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
164	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
165	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
166	Elasticity polarization tensor, surface enthalpy, and Eshelby theorem. <i>Journal of Mathematical Sciences</i> , 2009, 159, 133-167.	0.1	11
167	Singularities at the tip of a crack on the interface of piezoelectric bodies. <i>Journal of Mathematical Sciences</i> , 2009, 159, 524-540.	0.1	0
168	Optimization of a patch. <i>Journal of Mathematical Sciences</i> , 2009, 162, 373-392.	0.1	0
169	Asymptotics of negative eigenvalues of the Dirichlet problem with the density changing sign. <i>Journal of Mathematical Sciences</i> , 2009, 163, 151-175.	0.1	5
170	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
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