

Alexey S Shamaev

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	An Efficient Algorithm for Calculating Rheological Parameters of Layered Soil Media Composed from Elastic-Creeping Materials. <i>Soil Mechanics and Foundation Engineering</i> , 2017, 54, 224-230.	0.2	21
2	Spectral analysis and correct solvability of abstract integrodifferential equations arising in thermophysics and acoustics. <i>Journal of Mathematical Sciences</i> , 2013, 190, 34-65.	0.1	19
3	On the limiting behaviour of the spectrum of a sequence of operators defined on different Hilbert spaces. <i>Russian Mathematical Surveys</i> , 1989, 44, 195-196.	0.2	18
4	Solvability and spectral analysis of integro-differential equations arising in the theory of heat transfer and acoustics. <i>Doklady Mathematics</i> , 2010, 82, 684-687.	0.1	16
5	Analysis of Operator Models Arising in Problems of Hereditary Mechanics. <i>Journal of Mathematical Sciences</i> , 2014, 201, 673-692.	0.1	13
6	Averaging the acoustics equations for a viscoelastic material with channels filled with a viscous compressible fluid. <i>Fluid Dynamics</i> , 2011, 46, 250-261.	0.2	12
7	Homogenization of the equations of state for a heterogeneous layered medium consisting of two creep materials. <i>Proceedings of the Steklov Institute of Mathematics</i> , 2016, 295, 213-224.	0.1	12
8	Methods of the development and correction of the quality of holographic images of geometry objects with subwave-size elements. <i>Doklady Physics</i> , 2010, 55, 436-440.	0.2	10
9	Exact Controllability of the Distributed System, Governed by String Equation with Memory. <i>Journal of Dynamical and Control Systems</i> , 2013, 19, 611-623.	0.4	10
10	Noncontrollability to Rest of the Two-Dimensional Distributed System Governed by the Integrodifferential Equation. <i>Journal of Optimization Theory and Applications</i> , 2016, 170, 772-782.	0.8	10
11	On the Convergence of the Energy, Stress Tensors, and Eigenvalues in Homogenization Problems of Elasticity. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 1985, 65, 13-17.	0.9	9
12	Twisting a thin periodically perforated elastic rod. <i>Applicable Analysis</i> , 2009, 88, 1563-1577.	0.6	9
13	Asymptotic behavior of the spectrum of one-dimensional vibrations in a layered medium consisting of elastic and Kelvin-Voigt viscoelastic materials. <i>Proceedings of the Steklov Institute of Mathematics</i> , 2016, 295, 202-212.	0.1	9
14	Spectral properties of combined media. <i>Journal of Mathematical Sciences</i> , 2010, 164, 948-963.	0.1	8
15	SYMMETRY-RELATIONS FOR ELASTICALLY DEFORMED PERIODIC ROD-STRUCTURES. <i>Mathematical Models and Methods in Applied Sciences</i> , 2009, 19, 501-525.	1.7	6
16	Homogenization of acoustic equations for a partially perforated viscoelastic solid with viscous liquid. <i>Doklady Physics</i> , 2011, 56, 43-46.	0.2	6
17	Some Problems of Distributed and Boundary Control for Systems with Integral Aftereffect. <i>Journal of Mathematical Sciences</i> , 2018, 234, 470-484.	0.1	6
18	Averaging of eigenvalues of the boundary-value problem of elasticity with rapidly oscillating periodic coefficients. <i>Siberian Mathematical Journal</i> , 1984, 24, 687-694.	0.2	5

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19	Spectral properties of some problems in mechanics of strongly inhomogeneous media. <i>Mechanics of Solids</i> , 2009, 44, 874-906.	0.3	5
20	Some problems in acoustics of emulsions. <i>Journal of Mathematical Sciences</i> , 2011, 179, 415-436.	0.1	5
21	Calculation of natural frequencies and damping coefficients of a multi-layered composite using homogenization theory – This work was supported by the Russian Science Foundation under grant 16-11-10343.. <i>IFAC-PapersOnLine</i> , 2018, 51, 126-131.	0.5	5
22	On a Boundary Controllability Problem for a System Governed by the Two-Dimensional Wave Equation. <i>Journal of Computer and Systems Sciences International</i> , 2019, 58, 105-112.	0.2	5
23	Averaging of solutions and eigenvalues for boundary-value problems for elliptic equations in perforated domains. <i>Russian Mathematical Surveys</i> , 1982, 37, 253-254.	0.2	4
24	Spectral properties of some problems in mechanics of strongly inhomogeneous media. <i>Journal of Mathematical Sciences</i> , 2008, 149, 1679-1700.	0.1	4
25	Phase-shift at subwavelength holographic lithography (SWHL). <i>Proceedings of SPIE</i> , 2012, , .	0.8	4
26	On the spectrum of an integro-differential equation arising in viscoelasticity theory. <i>Journal of Mathematical Sciences</i> , 2012, 181, 751-754.	0.1	4
27	Passage of a plane acoustic wave through a layered composite with components of elastic and viscoelastic materials. <i>Acoustical Physics</i> , 2015, 61, 8-18.	0.2	4
28	The Neumann Problem for Second Order Elliptic Equations with Rapidly Oscillating Periodic Coefficients in a Perforated Domain. , 1989, , 879-904.		4
29	ON THE BEHAVIOUR OF SOLUTIONS OF DIFFERENTIAL EQUATIONS IN A HALF-STRIP. <i>Russian Mathematical Surveys</i> , 1980, 35, 231-232.	0.2	3
30	On some problems in acoustics of emulsions. <i>Doklady Physics</i> , 2010, 55, 450-454.	0.2	3
31	Homogenization of the acoustic equations for a porous long-memory viscoelastic material filled with a viscous fluid. <i>Differential Equations</i> , 2012, 48, 1161-1173.	0.1	3
32	On the problem of precise control of the system obeying the delay string equation. <i>Automation and Remote Control</i> , 2013, 74, 1810-1819.	0.4	3
33	A local perturbation method for the approximate calculation of the acoustic wave diffraction with impedance interface conditions. <i>Proceedings of the Steklov Institute of Mathematics</i> , 2016, 295, 168-178.	0.1	3
34	Exact bounded boundary controllability of vibrations of a two-dimensional membrane. <i>Doklady Mathematics</i> , 2016, 94, 607-610.	0.1	3
35	On limits of applicability of the homogenization method to modeling of layered creep media. <i>IFAC-PapersOnLine</i> , 2018, 51, 144-149.	0.5	3
36	Asymptotics of the Spectra of One-Dimensional Natural Vibrations in Media Consisting of Solid and Fluid Layers. <i>Doklady Physics</i> , 2020, 65, 153-156.	0.2	3

#	ARTICLE	IF	CITATIONS
37	Averaging elliptic equations that describe processes in stratified media. Russian Mathematical Surveys, 1986, 41, 209-210.	0.2	2
38	ON THE EIGENVALUES OF BOUNDARY VALUE PROBLEMS FOR THE SYSTEM OF ELASTICITY THEORY WITH RAPIDLY OSCILLATING COEFFICIENTS IN A PERFORATED DOMAIN. Sbornik: Mathematics, 1988, 60, 505-519.	0.2	2
39	Spectrum of one-dimensional oscillations in the combined stratified medium consisting of a viscoelastic material and a viscous compressible fluid. Fluid Dynamics, 2013, 48, 14-22.	0.2	2
40	Plane acoustic wave propagation through a composite of elastic and Kelvin-Voigt viscoelastic material layers. Mechanics of Solids, 2017, 52, 25-34.	0.3	2
41	On the Modeling of Creep Layered Structures with Nonlinear Constitutive Relations – The reported study was funded by RFBR, according to the research project No 16-01-00412-A.. IFAC-PapersOnLine, 2018, 51, 150-155.	0.5	2
42	Various ways to build effective characteristics for a pipe made of a layered composite material. E3S Web of Conferences, 2019, 97, 02027.	0.2	2
43	Suppression of Oscillations of Thin Plate by Bounded Control Acting to the Boundary. Journal of Computer and Systems Sciences International, 2020, 59, 371-380.	0.2	2
44	Problem of damping oscillations of a mechanical system with integral memory. IOP Conference Series: Materials Science and Engineering, 2020, 869, 022011.	0.3	2
45	Spectrum of One-Dimensional Eigenoscillations of a Medium Consisting of Viscoelastic Material with Memory and Incompressible Viscous Fluid. Journal of Mathematical Sciences, 2021, 257, 732-746.	0.1	2
46	Averaging of solutions of the Neumann problem for a second-order elliptic equation and systems in elasticity theory with rapidly oscillating periodic coefficients on a perforated domain. Russian Mathematical Surveys, 1987, 42, 237-238.	0.2	1
47	On propagation of acoustic waves in the medium consisting of a fluid and an elastic material. Journal of Mathematical Sciences, 2007, 144, 4284-4291.	0.1	1
48	Analysis of an effect of perturbations in SWHM and illuminating optical scheme parameters on an aerial image. , 2012, , .		1
49	Asymptotics of the Spectrum of One-Dimensional Natural Vibrations in a Layered Medium Consisting of Viscoelastic Material and Viscous Fluid. Fluid Dynamics, 2019, 54, 749-760.	0.2	1
50	Motion of Mass Source in Stratified Fluid. Journal of Physics: Conference Series, 2022, 2224, 012038.	0.3	1
51	Exact Control of a Distributed System Described by the Wave Equation with Integral Memory. Journal of Mathematical Sciences, 2022, 262, 358-373.	0.1	1
52	Ol'ga Arsen'evna Oleinik (obituary). Russian Mathematical Surveys, 2003, 58, 161-172.	0.2	0
53	Vladimir Aleksandrovich Kondrat'ev (A Tribute in Honor of His 70th Birthday). Differential Equations, 2005, 41, 909-914.	0.1	0
54	Application of parallel computing methods to the processing of sea-surface radar imagery. Journal of Computer and Systems Sciences International, 2007, 46, 602-605.	0.2	0

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55	Vladimir Aleksandrovich Kondratiev. Differential Equations, 2010, 46, 1807-1813.	0.1	0
56	Control of vibrations of membranes and plates by boundary forces. Doklady Mathematics, 2011, 83, 425-429.	0.1	0
57	The spectrum of natural vibrations in a medium composed of layers of elastic material and viscous fluid. Doklady Physics, 2013, 58, 33-36.	0.2	0
58	Reflection of a plane acoustic wave from the interface between an elastic material and a layered elastic-fluid medium. Fluid Dynamics, 2014, 49, 740-747.	0.2	0
59	Scientific Heritage of Vladimir Mikhailovich Millionshchikov. Journal of Mathematical Sciences, 2015, 210, 115-134.	0.1	0
60	Transmission of a plane acoustic wave through a composite consisting of elastic and viscoelastic layers. Doklady Physics, 2015, 60, 305-309.	0.2	0
61	On a complex fundamental solution of the Schrödinger equation. Doklady Mathematics, 2017, 95, 122-124.	0.1	0
62	On the fundamental solution of the Fokker-Planck-Kolmogorov equation. Doklady Mathematics, 2017, 95, 55-59.	0.1	0
63	Algorithm for constructing the efficient frontier of an investment portfolio. Journal of Computer and Systems Sciences International, 2017, 56, 627-635.	0.2	0
64	Vasilii Vasil'evich Zhikov. Russian Mathematical Surveys, 2018, 73, 533-542.	0.2	0
65	Some methods for calculating and optimizing the characteristics of rods made of composite materials. E3S Web of Conferences, 2019, 138, 01035.	0.2	0
66	Analytical representation for the problem of a loaded hollow layered cylinder taking into account the creep of its layers. Journal of Physics: Conference Series, 2019, 1425, 012108.	0.3	0
67	Calculation methods and problems of optimizing the effective characteristics of rods made of composite materials. Journal of Physics: Conference Series, 2019, 1425, 012148.	0.3	0
68	Effective modules of a layered elastic creep medium with power creep kernels. IOP Conference Series: Materials Science and Engineering, 2020, 913, 032059.	0.3	0
69	Calculation of elastic-creeping characteristics of a beam made of a layered composite material. IOP Conference Series: Materials Science and Engineering, 0, 1030, 012025.	0.3	0
70	An Effective Method of Electromagnetic Field Calculation. Lecture Notes in Computer Science, 2013, , 487-494.	1.0	0
71	The Neumann Problem for Second Order Elliptic Equations with Rapidly Oscillating Periodic Coefficients in a Perforated Domain. , 1989, , 879-904.		0
72	Experimental verification of sub-wavelength holographic lithography physical concept for single exposure fabrication of complex structures on planar and nonplanar surfaces. , 2017, , .		0

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73	Vibration Damping Problems for Some Models of Viscous Fluids. Lecture Notes in Civil Engineering, 2022, , 13-20.	0.3	0
74	Viscoelastic Vibrations of a Layered Composite with Internal Friction. Lecture Notes in Civil Engineering, 2022, , 3-11.	0.3	0
75	Spectrum of One-Dimensional Natural Vibrations of Layered Medium Consisting of Elastic Material and Viscous Incompressible Fluid. Moscow University Mathematics Bulletin, 2020, 75, 172-176.	0.3	0
76	Homogenization of Acoustic Equations for a Partially Perforated Elastic Material with Slightly Viscous Fluid. Journal of Siberian Federal University - Mathematics and Physics, 2015, 8, 356-370.	0.2	0