

Igor Prokhorov

List of Publications by Citations

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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.

38
papers

186
citations

9
h-index

11
g-index

54
ext. papers

273
ext. citations

0.7
avg, IF

3.4
L-index

#	Paper	IF	Citations
38	A boundary-value problem for the polarized-radiation transfer equation with Fresnel interface conditions for a layered medium. <i>Journal of Computational and Applied Mathematics</i> , 2011 , 235, 2006-2014	2.4	16
37	On the solubility of the boundary-value problem of radiation transport theory with generalized conjugation conditions on the interfaces. <i>Izvestiya Mathematics</i> , 2003 , 67, 1243-1266	0.7	16
36	Solvability of the initial-boundary value problem for an integrodifferential equation. <i>Siberian Mathematical Journal</i> , 2012 , 53, 301-309	0.5	14
35	The cauchy problem for the radiative transfer equation with generalized conjugation conditions. <i>Computational Mathematics and Mathematical Physics</i> , 2013 , 53, 588-600	0.9	12
34	Investigation of scattering and absorbing media by the methods of X-ray tomography. <i>Journal of Inverse and Ill-Posed Problems</i> , 1993 , 1,	1.3	12
33	Advanced Computing Method for Solving of the Polarized-Radiation Transfer Equation. <i>Lecture Notes in Computer Science</i> , 2010 , 268-276	0.9	12
32	Studying the problem of acoustic sounding of the seabed using methods of radiative transfer theory. <i>Acoustical Physics</i> , 2015 , 61, 368-375	1.1	10
31	Boundary value problem of radiation transfer in an inhomogeneous medium with reflection conditions on the boundary. <i>Differential Equations</i> , 2000 , 36, 943-948	0.7	10
30	On the structure of the continuity set of the solution to a boundary-value problem for the radiation transfer equation. <i>Mathematical Notes</i> , 2009 , 86, 234-248	0.5	9
29	Optical tomography problems at layered media. <i>Inverse Problems</i> , 2008 , 24, 025019	2.3	8
28	Optical tomography problems: Investigation by the methods of the radiation transport theory. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2006 , 101, 769-776	0.7	8
27	Initial boundary value problem for the radiative transfer equation with diffusion matching conditions. <i>Journal of Applied and Industrial Mathematics</i> , 2017 , 11, 115-124	0.6	7
26	On the well-posedness of the Cauchy problem for the equation of radiative transfer with Fresnel matching conditions. <i>Siberian Mathematical Journal</i> , 2015 , 56, 736-745	0.5	7
25	Imaging Based on Signal from Side-Scan Sonar. <i>Applied Mechanics and Materials</i> , 2015 , 756, 678-682	0.3	6
24	Numerical solution of the inverse problem for the polarized-radiation transfer equation. <i>Numerical Analysis and Applications</i> , 2008 , 1, 46-57	0.6	5
23	Tomography Through the Transport Equation. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1999 , 33-44	0.5	5
22	Theoretical and Numerical Analysis of an Initial-Boundary Value Problem for the Radiative Transfer Equation with Fresnel Matching Conditions. <i>Computational Mathematics and Mathematical Physics</i> , 2018 , 58, 735-749	0.9	4

21	 <i>Mathematical Notes</i> , 2009 , 86, 256-272	0.4	3
20	The Cauchy Problem for the Radiation Transfer Equation with Fresnel and Lambert Matching Conditions. <i>Mathematical Notes</i> , 2019 , 105, 80-90	0.5	2
19	An integrodifferential indicator for the problem of single beam tomography. <i>Journal of Applied and Industrial Mathematics</i> , 2014 , 8, 301-306	0.6	2
18	The problem of single-beam probing of an unknown medium. <i>Journal of Applied and Industrial Mathematics</i> , 2011 , 5, 500-505	0.6	2
17	Analysis of the tomographic contrast during the immersion bleaching of layered biological tissues. <i>Quantum Electronics</i> , 2010 , 40, 77-82	1.8	2
16	Algorithm of finding a body projection within an absorbing and scattering medium. <i>Journal of Inverse and Ill-Posed Problems</i> , 2011 , 18,	1.3	2
15	Monte Carlo method for non-stationary radiative transfer equation in inhomogeneous media 2016 ,		2
14	Determination of Refractive Indices of a Layered Medium under Pulsed Irradiation. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2018 , 124, 567-574	0.7	2
13	Simulation of Sonar Signal Propagation in a Fluctuating Ocean. <i>Physics Procedia</i> , 2015 , 70, 690-694		1
12	On the problem of reconstructing the floor topography of a fluctuating ocean. <i>Journal of Applied and Industrial Mathematics</i> , 2015 , 9, 412-422	0.6	1
11	Construction of sonar images based on the received signal side-scan sonar 2014 ,		1
10	The statement and numerical solution of an optimization problem in X-ray tomography. <i>Computational Mathematics and Mathematical Physics</i> , 2006 , 46, 16-22	0.9	1
9	Effects of polarization of optical radiation in the problem for finding refractive indices of layered medium 2016 ,		1
8	On the efficiency of the maximum cross section method in radiation transport theory. <i>Computer Research and Modeling</i> , 2013 , 5, 573-582	1	1
7	Modelling of Material Composition in X-Ray Diagnostics. <i>Applied Mechanics and Materials</i> , 2015 , 749, 116-120	0.3	
6	Choice of optimal radiation energy in X-ray flaw detection. <i>Doklady Mathematics</i> , 2006 , 73, 449-452	0.7	
5	Linear waves in a fluid flow with constant vorticity located under an ice blanket. <i>Prikladnaya Matematika I Mekhanika</i> , 1991 , 55, 193-200		
4	Modelling and Simulation of Compton Scatter Image Formation in Positron Emission Tomography. <i>Journal of Inverse and Ill-Posed Problems</i> , 2020 , 28, 923-932	1.3	

3 Some Inverse Problem for the Polarized-Radiation Transfer Equation **2012**, 207-217

2 Reconstruction of the Lambert Curve in a Scattering Medium by Using Pulsed Sounding. *Journal of Applied and Industrial Mathematics*, **2020**, 14, 321-329 0.6

1 Determination of the Attenuation Coefficient for the Nonstationary Radiative Transfer Equation. *Computational Mathematics and Mathematical Physics*, **2021**, 61, 2088-2101 0.9