

Anatoly A Alikhanov

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,259
citations

840585

11
h-index

580701

25
g-index

32
all docs

32
docs citations

32
times ranked

468
citing authors

#	ARTICLE	IF	CITATIONS
1	A new difference scheme for the time fractional diffusion equation. Journal of Computational Physics, 2015, 280, 424-438.	1.9	554
2	A priori estimates for solutions of boundary value problems for fractional-order equations. Differential Equations, 2010, 46, 660-666.	0.1	196
3	Fast Iterative Method with a Second-Order Implicit Difference Scheme for Time-Space Fractional Convection-Diffusion Equation. Journal of Scientific Computing, 2017, 72, 957-985.	1.1	84
4	The Temporal Second Order Difference Schemes Based on the Interpolation Approximation for Solving the Time Multi-term and Distributed-Order Fractional Sub-diffusion Equations. Journal of Scientific Computing, 2017, 73, 93-121.	1.1	81
5	Numerical methods of solutions of boundary value problems for the multi-term variable-distributed order diffusion equation. Applied Mathematics and Computation, 2015, 268, 12-22.	1.4	60
6	Boundary value problems for the diffusion equation of the variable order in differential and difference settings. Applied Mathematics and Computation, 2012, 219, 3938-3946.	1.4	59
7	Boundary value problems for certain classes of loaded differential equations and solving them by finite difference methods. Computational Mathematics and Mathematical Physics, 2008, 48, 1581-1590.	0.2	40
8	Temporal second order difference schemes for the multi-dimensional variable-order time fractional sub-diffusion equations. Computers and Mathematics With Applications, 2020, 79, 2952-2972.	1.4	35
9	Numerical analysis of multi-term time-fractional nonlinear subdiffusion equations with time delay: What could possibly go wrong?. Communications in Nonlinear Science and Numerical Simulation, 2021, 96, 105672.	1.7	22
10	On the stability and convergence of nonlocal difference schemes. Differential Equations, 2010, 46, 949-961.	0.1	14
11	A Time-Fractional Diffusion Equation with Generalized Memory Kernel in Differential and Difference Settings with Smooth Solutions. Computational Methods in Applied Mathematics, 2017, 17, 647-660.	0.4	14
12	A high-order L2 type difference scheme for the time-fractional diffusion equation. Applied Mathematics and Computation, 2021, 411, 126545.	1.4	13
13	A Difference Method for Solving the Steklov Nonlocal Boundary Value Problem of Second Kind for the Time-Fractional Diffusion Equation. Computational Methods in Applied Mathematics, 2017, 17, 1-16.	0.4	11
14	The Crank-Nicolson Type Compact Difference Schemes for a Loaded Time-Fractional Hallaire Equation. Fractional Calculus and Applied Analysis, 2021, 24, 1231-1256.	1.2	11
15	Nonlocal boundary value problems in differential and difference settings. Differential Equations, 2008, 44, 952-959.	0.1	10
16	Stability and Convergence of Difference Schemes Approximating a Two-Parameter Nonlocal Boundary Value Problem for Time-Fractional Diffusion Equation. Computational Mathematics and Modeling, 2015, 26, 252-272.	0.2	10
17	Stable numerical schemes for time-fractional diffusion equation with generalized memory kernel. Applied Numerical Mathematics, 2022, 172, 546-565.	1.2	10
18	A multi-domain spectral collocation method for Volterra integral equations with a weakly singular kernel. Applied Numerical Mathematics, 2021, 167, 218-236.	1.2	9

#	ARTICLE	IF	CITATIONS
19	Stability and convergence of difference schemes for boundary value problems for the fractional-order diffusion equation. Computational Mathematics and Mathematical Physics, 2016, 56, 561-575.	0.2	8
20	Stability and convergence of difference schemes approximating a two-parameter nonlocal boundary value problem. Differential Equations, 2013, 49, 796-806.	0.1	6
21	A class of time-fractional diffusion equations with generalized fractional derivatives. Journal of Computational and Applied Mathematics, 2022, 414, 114424.	1.1	5
22	Simulation of drift-diffusion transport of charge carriers in semiconductor layers with a fractal structure in an alternating electric field. Semiconductors, 2017, 51, 755-759.	0.2	3
23	Stability and convergence of difference schemes approximating a nonlocal Steklov boundary value problem of the second class. Differential Equations, 2015, 51, 94-106.	0.1	2
24	Contribution of Surface Photons to the Thermal Emission of Graphene. Journal of Surface Investigation, 2018, 12, 332-335.	0.1	1
25	Local One-Dimensional Scheme for the First Initial-Boundary Value Problem for the Multidimensional Fractional-Order Convection-Diffusion Equation. Computational Mathematics and Mathematical Physics, 2021, 61, 1075-1093.	0.2	0
26	Application of nonlinear voxel distribution grid for computational speed-up for linear tomography reconstruction. , 2018, , .		0