Vsevolod Bohaienko

List of Publications by Year
in descending order

36	153	1306789 7	1281420 11
papers	citations	h-index	g-index

37	37	37	54
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification of fractional water transport model with Ї-Caputo derivatives using particle swarm optimization algorithm. Applied Mathematics and Computation, 2021, 390, 125665.	1.4	16
2	Fractional-Fractal Modeling of Filtration-Consolidation Processes in Saline Saturated Soils. Fractal and Fractional, 2020, 4, 59.	1.6	13
3	Influence of evapotranspiration assessment on the accuracy of moisture transport modeling under the conditions of sprinkling irrigation in the south of Ukraine. Archives of Agronomy and Soil Science, 2020, 66, 1424-1435.	1.3	12
4	Numerical simulation of irrigation scheduling using fractional Richards equation. Irrigation Science, 2021, 39, 385-396.	1.3	12
5	A fast finite-difference algorithm for solving space-fractional filtration equation with a generalised Caputo derivative. Computational and Applied Mathematics, 2019, 38, 1.	1.0	11
6	PaRallel Algorithms for Modelling Two-Dimensional Non-Equilibrium Salt Transfer Processes on the Base of Fractional Derivative Model. Fractional Calculus and Applied Analysis, 2018, 21, 654-671.	1.2	10
7	On Mathematical modeling of Fractional-Differential Dynamics of Flushing Process for Saline Soils with Parallel Algorithms Usage. Journal of Automation and Information Sciences, 2016, 48, 1-12.	0.7	9
8	Numerical Simulation of Fractional-Differential Filtration-Consolidation Dynamics Within the Framework of Models with Non-Singular Kernel. Cybernetics and Systems Analysis, 2018, 54, 193-204.	0.4	8
9	Mathematical Modeling of the Fractional Differential Dynamics of the Relaxation Process of Convective Diffusion Under Conditions of Planned Filtration. Cybernetics and Systems Analysis, 2015, 51, 886-895.	0.4	6
10	Mathematical Modeling of the Dynamics of Nonequilibrium in Time Convectionâ€“Diffusion Processes in Domains with Free Boundaries. Cybernetics and Systems Analysis, 2016, 52, 427-440.	0.4	6
11	Parallel finite-difference algorithms for three-dimensional space-fractional diffusion equation with $$psi $$-Caputo derivatives. Computational and Applied Mathematics, 2020, 39, 1.	1.0	6
12	Numerical schemes for modelling time-fractional dynamics of non-isothermal diffusion in soils. Mathematics and Computers in Simulation, 2019, 157, 100-114.	2.4	5
13	Some Consolidation Dynamics Problems within the Framework of the Biparabolic Mathematical Model and its Fractional-Differential Analog. Cybernetics and Systems Analysis, 2020, 56, 770-783.	0.4	5
14	Simplified Mathematical Model for the Description of Anomalous Migration of Soluble Substances in Vertical Filtration Flow. Fractal and Fractional, 2020, 4, 20.	1.6	5
15	Selection of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e423" altimg="si3.svg"><mml:mi>Ї</mml:mi></mml:math>-Caputo derivativesâ€™ functional parameters in generalized water transport equation by genetic programming technique. Results in Control and Optimization, 2021, 5, 100068.	1.3	5
16	Mathematical Modeling of Fractional-Differential Dynamics of Process of Filtration-Convective Diffusion of Soluble Substances in Nonisothermal Conditions. Journal of Automation and Information Sciences, 2017, 49, 12-25.	0.7	4
17	Computer Simulation Based on Non-local Model of the Dynamics of Convective Diffusion of Soluble Substances in the Underground Filtration Flow under Mass Exchange Conditions. Journal of Automation and Information Sciences, 2019, 51, 16-29.	0.7	3
18	DEVELOPMENT EXPERIENCE AND WAYS OF IMPROVEMENT OF IRRIGATION MANAGEMENT SYSTEMS. , 2019, , 17-30.	0.3	3

#	Article	IF	Citations
19	Mathematical Modeling of Solutes Migration under the Conditions of Groundwater Filtration by the Model with the k-Caputo Fractional Derivative. Fractal and Fractional, 2018, 2, 28.	1.6	3
20	Optimization of Operation Regimes of Irrigation Canals Using Genetic Algorithms. Advances in Intelligent Systems and Computing, 2019, , 224-233.	0.5	2
21	Analysis of Computational Schemes for Geohydrodynamics Processes Modeling. Journal of Automation and Information Sciences, 2009, 41, 1-12.	0.7	2
22	Program-Analytical Simulation of Problems for Distributed-Parameter Dynamic Systems. Cybernetics and Systems Analysis, 2005, 41, 183-202.	0.4	1
23	Parameter identification for fractional-fractal model of filtration-consolidation dynamics using artificial neural networks. Physico-mathematical Modelling and Informational Technologies, 2021, , 52-57.	0.0	1
24	Computer modeling of the dynamics of migration processes of soluble substances in the case of groundwater filtration with free surface on the base of the fractional derivative approach. Reports National Academy of Science of Ukraine, 2018, , 21-29.	0.0	1
25	Some Boundary-Value Problems of Fractional-Differential Mobileâ€“Immobile Migration Dynamics in a Profile Filtration Flow. Cybernetics and Systems Analysis, 2020, 56, 410-425.	0.4	1
26	Monitoring of soil moisture in the south of Ukraine using active and passive remote sensing data. , 2020, , .		1
27	Aspects of the organization of computations using the basis-matrix method. Cybernetics and Systems Analysis, 2012, 48, 605-613.	0.4	0
28	Performance of Vectorized GPU-Algorithm for Computing $$ {varvec{uppsi}} $$-Caputo Derivative Values. Advances in Intelligent Systems and Computing, 2021, , 266-275.	0.5	0
29	On the recurrent computation of fractional operator with Mittag-Leffler kernel. Applied Numerical Mathematics, 2021, 162, 137-149.	1.2	0
30	Accuracy and speed of splitting methods for three-dimensional spaceâ€“time fractional diffusion equation with Ï^-Caputo derivatives. Mathematics and Computers in Simulation, 2021, 188, 226-240.	2.4	0
31	Investigation of Parallel Algorithms for Solving Problems of Convection Diffusion on the Basis of Splitting Schemes. Journal of Automation and Information Sciences, 2017, 49, 16-30.	0.7	0
32	Numerical modeling of the fractional-differential dynamics of the filtration-convective diffusion on the base of parallel algorithms for cluster systems. Reports National Academy of Science of Ukraine, 2017, , 21-28.	0.0	0
33	Computer modeling of the fractional-differential dynamics of some filtration-consolidation processes. Reports National Academy of Science of Ukraine, 2018, , 16-24.	0.0	0
34	DEVELOPMENT OF SCIENTIFIC BASIS FOR WATER MANAGEMENT IN AGROLANDSCAPES. , 2019, , 9-16.	0.3	0
35	On a New Analog of the Biparabolic Evolution Equation with Conformable Fractional Derivatives. Journal of Automation and Information Sciences, 2020, 52, 1-14.	0.7	0
36	On the selection of fractional-differential model of convective diffusion with mass exchange. Modeling Control and Information Technologies, 2020, , 7-10.	0.0	0