

Vsevolod Bohaienko

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of Vectorized GPU-Algorithm for Computing ψ -Caputo Derivative Values. Advances in Intelligent Systems and Computing, 2021, , 266-275.	0.5	0
2	Identification of fractional water transport model with $\tilde{\psi}$ -Caputo derivatives using particle swarm optimization algorithm. Applied Mathematics and Computation, 2021, 390, 125665.	1.4	16
3	Numerical simulation of irrigation scheduling using fractional Richards equation. Irrigation Science, 2021, 39, 385-396.	1.3	12
4	On the recurrent computation of fractional operator with Mittag-Leffler kernel. Applied Numerical Mathematics, 2021, 162, 137-149.	1.2	0
5	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
6	Accuracy and speed of splitting methods for three-dimensional space-time fractional diffusion equation with $\tilde{\psi}$ -Caputo derivatives. Mathematics and Computers in Simulation, 2021, 188, 226-240.	2.4	0
7	Selection of $\tilde{\psi}$ -Caputo derivatives functional parameters in generalized water transport equation by genetic programming technique. Results in Control and Optimization, 2021, 5, 100068.	1.3	5
8	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
9	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
10	Fractional-Fractal Modeling of Filtration-Consolidation Processes in Saline Saturated Soils. Fractal and Fractional, 2020, 4, 59.	1.6	13
11	Parallel finite-difference algorithms for three-dimensional space-fractional diffusion equation with ψ -Caputo derivatives. Computational and Applied Mathematics, 2020, 39, 1.	1.0	6
12	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
13	Some Boundary-Value Problems of Fractional-Differential Mobile-Immobile Migration Dynamics in a Profile Filtration Flow. Cybernetics and Systems Analysis, 2020, 56, 410-425.	0.4	1
14	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
15	Monitoring of soil moisture in the south of Ukraine using active and passive remote sensing data. , 2020, , .		1
16	On the selection of fractional-differential model of convective diffusion with mass exchange. Modeling Control and Information Technologies, 2020, , 7-10.	0.0	0
17	Optimization of Operation Regimes of Irrigation Canals Using Genetic Algorithms. Advances in Intelligent Systems and Computing, 2019, , 224-233.	0.5	2
18	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

#	ARTICLE	IF	CITATIONS
19	Numerical schemes for modelling time-fractional dynamics of non-isothermal diffusion in soils. <i>Mathematics and Computers in Simulation</i> , 2019, 157, 100-114.	2.4	5
20	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. <i>Journal of Automation and Information Sciences</i> , 2019, 51, 16-29.	0.7	3
21	DEVELOPMENT EXPERIENCE AND WAYS OF IMPROVEMENT OF IRRIGATION MANAGEMENT SYSTEMS. , 2019, , 17-30.	0.3	3
22	DEVELOPMENT OF SCIENTIFIC BASIS FOR WATER MANAGEMENT IN AGROLANDSCAPES. , 2019, , 9-16.	0.3	0
23	Numerical Simulation of Fractional-Differential Filtration-Consolidation Dynamics Within the Framework of Models with Non-Singular Kernel. <i>Cybernetics and Systems Analysis</i> , 2018, 54, 193-204.	0.4	8
24	PaRallel Algorithms for Modelling Two-Dimensional Non-Equilibrium Salt Transfer Processes on the Base of Fractional Derivative Model. <i>Fractional Calculus and Applied Analysis</i> , 2018, 21, 654-671.	1.2	10
25	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. <i>Reports National Academy of Science of Ukraine</i> , 2018, , 21-29.	0.0	1
26	Mathematical Modeling of Solutes Migration under the Conditions of Groundwater Filtration by the Model with the k-Caputo Fractional Derivative. <i>Fractal and Fractional</i> , 2018, 2, 28.	1.6	3
27	Computer modeling of the fractional-differential dynamics of some filtration-consolidation processes. <i>Reports National Academy of Science of Ukraine</i> , 2018, , 16-24.	0.0	0
28	Mathematical Modeling of Fractional-Differential Dynamics of Process of Filtration-Convective Diffusion of Soluble Substances in Nonisothermal Conditions. <i>Journal of Automation and Information Sciences</i> , 2017, 49, 12-25.	0.7	4
29	Investigation of Parallel Algorithms for Solving Problems of Convection Diffusion on the Basis of Splitting Schemes. <i>Journal of Automation and Information Sciences</i> , 2017, 49, 16-30.	0.7	0
30	Numerical modeling of the fractional-differential dynamics of the filtration-convective diffusion on the base of parallel algorithms for cluster systems. <i>Reports National Academy of Science of Ukraine</i> , 2017, , 21-28.	0.0	0
31	Mathematical Modeling of the Dynamics of Nonequilibrium in Time Convectionâ€“Diffusion Processes in Domains with Free Boundaries. <i>Cybernetics and Systems Analysis</i> , 2016, 52, 427-440.	0.4	6
32	On Mathematical modeling of Fractional-Differential Dynamics of Flushing Process for Saline Soils with Parallel Algorithms Usage. <i>Journal of Automation and Information Sciences</i> , 2016, 48, 1-12.	0.7	9
33	Mathematical Modeling of the Fractional Differential Dynamics of the Relaxation Process of Convective Diffusion Under Conditions of Planned Filtration. <i>Cybernetics and Systems Analysis</i> , 2015, 51, 886-895.	0.4	6
34	Aspects of the organization of computations using the basis-matrix method. <i>Cybernetics and Systems Analysis</i> , 2012, 48, 605-613.	0.4	0
35	Analysis of Computational Schemes for Geohydrodynamics Processes Modeling. <i>Journal of Automation and Information Sciences</i> , 2009, 41, 1-12.	0.7	2
36	Program-Analytical Simulation of Problems for Distributed-Parameter Dynamic Systems. <i>Cybernetics and Systems Analysis</i> , 2005, 41, 183-202.	0.4	1