

# Denis M Filatov

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

114  
citations

1683934

5  
h-index

1372474

10  
g-index

22  
all docs

22  
docs citations

22  
times ranked

70  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fuzzy expert system for solving lost circulation problem. Applied Soft Computing Journal, 2008, 8, 14-29.	4.1	39
2	Conservative arbitrary order finite difference schemes for shallow-water flows. Journal of Computational and Applied Mathematics, 2008, 218, 579-591.	1.1	11
3	Precursory Analysis of GPS Time Series for Seismic Hazard Assessment. Pure and Applied Geophysics, 2020, 177, 509-530.	0.8	9
4	Fractal analysis of GPS time series for early detection of disastrous seismic events. Physica A: Statistical Mechanics and Its Applications, 2017, 469, 718-730.	1.2	8
5	Fuzzy expert system for solving lost circulation problem. , 2005, , .		7
6	On splitting-based mass and total energy conserving arbitrary order shallow-water schemes. Numerical Methods for Partial Differential Equations, 2007, 23, 534-552.	2.0	7
7	On an efficient splitting-based method for solving the diffusion equation on a sphere. Numerical Methods for Partial Differential Equations, 2012, 28, 331-352.	2.0	5
8	A Method for Identification of Critical States of Open Stochastic Dynamical Systems Based on the Analysis of Acceleration. Journal of Statistical Physics, 2016, 165, 681-692.	0.5	5
9	Splitting-based schemes for numerical solution of nonlinear diffusion equations on a sphere. Applied Mathematics and Computation, 2013, 219, 8467-8485.	1.4	3
10	Numerical Modelling of Nonlinear Diffusion Phenomena on a Sphere. Advances in Intelligent Systems and Computing, 2013, , 57-70.	0.5	2
11	Phenomena of Nonlinear Diffusion in Complex 3D Media. Procedia Computer Science, 2017, 108, 2383-2387.	1.2	2
12	A numerical study of nonlinear diffusion phenomena in heterogeneous media: energy transfer at diverse blow-up modes and self-organisation processes. European Physical Journal: Special Topics, 2017, 226, 3303-3314.	1.2	2
13	Stochastic dynamical systems always undergo trending mechanisms of transition to criticality. Physica A: Statistical Mechanics and Its Applications, 2019, 527, 121309.	1.2	2
14	An implicit direct unconditionally stable numerical algorithm for the solution of advection-diffusion equation on a sphere. Applied Numerical Mathematics, 2019, 142, 1-15.	1.2	2
15	Solution of the linear and nonlinear advection-diffusion problems on a sphere. Numerical Methods for Partial Differential Equations, 2020, 36, 1922-1937.	2.0	2
16	Modelling of Combustion and Diverse Blow-Up Regimes in a Spherical Shell. Mathematics in Industry, 2017, , 729-735.	0.1	2
17	Splitting as an approach to constructing local exact artificial boundary conditions. Applied Mathematics and Computation, 2005, 170, 1209-1242.	1.4	1
18	Perception Based Hybrid Intelligent Systems in Petroleum Applications. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
19	Simulation of soliton-like waves generated by topography with conservative fully discrete shallow-water arbitrary-order schemes. International Journal of Numerical Methods for Heat and Fluid Flow, 2009, 19, 982-1007.	1.6	1
20	Assessment of seismic hazard of the Japanese islands based on fractal analysis of GPS time series. Izvestiya, Physics of the Solid Earth, 2017, 53, 545-555.	0.2	1
21	On spatial synchronisation as a manifestation of irregular energy cascades in continuous media under the transition to criticality. Nonlinear Dynamics, 2022, 109, 2573-2594.	2.7	1