Kirill M Terekhov

List of Publications by Year
in descending order

36	409	933447 10	794594 19
papers	citations	h-index	g-index

38	38	38	189
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A monotone nonlinear finite volume method for diffusion equations and multiphase flows. Computational Geosciences, 2014, 18, 311-324.	2.4	64
2	Cell-centered nonlinear finite-volume methods for the heterogeneous anisotropic diffusion problem. Journal of Computational Physics, 2017, 330, 245-267.	3.8	62
3	An octree-based solver for the incompressible Navierâ€“Stokes equations with enhanced stability and low dissipation. Computers and Fluids, 2013, 84, 231-246.	2.5	35
4	A fully implicit mimetic finite difference scheme for general purpose subsurface reservoir simulation with full tensor permeability. Journal of Computational Physics, 2020, 406, 109194.	3.8	30
5	Parallel Finite Volume Computation on General Meshes. , 2020, , .		29
6	A Numerthod for the Simulation of Free Surface Flows of Viscoplastic Fluid in 3D. Journal of Computational Mathematics, 2011, 29, 605-622.	0.4	21
7	A mathematical model to quantify the effects of platelet count, shear rate, and injury size on the initiation of blood coagulation under venous flow conditions. PLoS ONE, 2020, 15, e0235392.	2.5	18
8	Cell-centered finite-volume method for heterogeneous anisotropic poromechanics problem. Journal of Computational and Applied Mathematics, 2020, 365, 112357.	2.0	16
9	Finite volume method for coupled subsurface flow problems, I: Darcy problem. Journal of Computational Physics, 2019, 395, 298-306.	3.8	12
10	A semi-Lagrangian method on dynamically adapted octree meshes. Russian Journal of Numerical Analysis and Mathematical Modelling, 2015, 30, .	0.6	10
11	Cell-centered finite-volume method for elastic deformation of heterogeneous media with full-tensor properties. Journal of Computational and Applied Mathematics, 2020, 364, 112331.	2.0	10
12	Multi-physics flux coupling for hydraulic fracturing modelling within INMOST platform. Russian Journal of Numerical Analysis and Mathematical Modelling, 2020, 35, 223-237.	0.6	9
13	An adaptive numerical method for free surface flows passing rigidly mounted obstacles. Computers and Fluids, 2017, 148, 56-68.	2.5	8
14	CFD technology for 3D simulation of large-scale hydrodynamic events and disasters. Russian Journal of Numerical Analysis and Mathematical Modelling, 2012, 27, .	0.6	7
15	A Splitting Method for Numerical Simulation of Free Surface Flows of Incompressible Fluids with Surface Tension. Computational Methods in Applied Mathematics, 2015, 15, 59-77.	0.8	7
16	INMOST Parallel Platform for Mathematical Modeling and Applications. Communications in Computer and Information Science, 2019, , 230-241.	0.5	7
17	Sparse System Solution Methods forÂComplex Problems. Lecture Notes in Computer Science, 2021, , 53-73.	1.3	6
18	Finite volume method for coupled subsurface flow problems, II: Poroelasticity. Journal of Computational Physics, 2022, 462, 111225.	3.8	6

#	Article	IF	Citations
19	System-AMG for Fully Coupled Reservoir Simulation with Geomechanics. , 2019, , .		5
20	Fully-Implicit Collocated Finite-Volume Method for the Unsteady Incompressible Navierâ€“Stokes Problem. Lecture Notes in Computational Science and Engineering, 2021, , 361-374.	0.3	5
21	Methods and efficiency estimation of parallel implementation of the ïƒ-model of general ocean circulation. Russian Journal of Numerical Analysis and Mathematical Modelling, 2011, 26, .	0.6	4
22	Two methods of surface tension treatment in free surface flow simulations. Applied Mathematics Letters, 2018, 86, 236-242.	2.7	4
23	Parallel Dynamic Mesh Adaptation Within INMOST Platform. Communications in Computer and Information Science, 2019, , 313-326.	0.5	4
24	General finite-volume framework for saddle-point problems of various physics. Russian Journal of Numerical Analysis and Mathematical Modelling, 2021, 36, 359-379.	0.6	3
25	A splitting method for free surface flows over partially submerged obstacles. Russian Journal of Numerical Analysis and Mathematical Modelling, 2018, 33, 95-110.	0.6	2
26	Collocated Finite-Volume Method for the Incompressible Navier-Stokes Problem. Journal of Numerical Mathematics, 2020, .	3.5	2
27	Nonlinear Monotone FV Schemes for Radionuclide Geomigration and Multiphase Flow Models. Springer Proceedings in Mathematics and Statistics, 2014, , 655-663.	0.2	2
28	Application of the Parallel INMOST Platform to Subsurface Flow and Transport Modelling. Lecture Notes in Computer Science, 2016, , 277-286.	1.3	2
29	A Unified Approach for Computing Tsunami, Waves, Floods, and Landslides. Lecture Notes in Computational Science and Engineering, 2015, , 643-650.	0.3	0
30	INMOST Platform for Parallel Multi-physics Applications: Multi-phase Flow in Porous Media and Blood Flow Coagulation. Communications in Computer and Information Science, 2020, , 226-236.	0.5	0
31	Title is missing!. , 2020, 15, e0235392.		0
32	Title is missing!. , 2020, 15, e0235392.		0
33	Title is missing!. , 2020, 15, e0235392.		0
34	Title is missing!. , 2020, 15, e0235392.		0
35	Title is missing!. , 2020, 15, e0235392.		0
36	Title is missing!. , 2020, 15, e0235392.		0