

Kirill M Terekhov

List of Publications by Year in descending order

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36
papers

409
citations

933447

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794594

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38
all docs

38
docs citations

38
times ranked

189
citing authors

#	ARTICLE	IF	CITATIONS
1	Finite volume method for coupled subsurface flow problems, II: Poroelasticity. Journal of Computational Physics, 2022, 462, 111225.	3.8	6
2	Fully-Implicit Collocated Finite-Volume Method for the Unsteady Incompressible Navier–Stokes Problem. Lecture Notes in Computational Science and Engineering, 2021, , 361-374.	0.3	5
3	Sparse System Solution Methods for Complex Problems. Lecture Notes in Computer Science, 2021, , 53-73.	1.3	6
4	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
5	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
6	Cell-centered finite-volume method for heterogeneous anisotropic poromechanics problem. Journal of Computational and Applied Mathematics, 2020, 365, 112357.	2.0	16
7	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
8	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
9	Parallel Finite Volume Computation on General Meshes. , 2020, , .		29
10	Collocated Finite-Volume Method for the Incompressible Navier-Stokes Problem. Journal of Numerical Mathematics, 2020, .	3.5	2
11	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
12	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
13	Title is missing!. , 2020, 15, e0235392.		0
14	Title is missing!. , 2020, 15, e0235392.		0
15	Title is missing!. , 2020, 15, e0235392.		0
16	Title is missing!. , 2020, 15, e0235392.		0
17	Title is missing!. , 2020, 15, e0235392.		0
18	Title is missing!. , 2020, 15, e0235392.		0

#	ARTICLE	IF	CITATIONS
19	Finite volume method for coupled subsurface flow problems, I: Darcy problem. Journal of Computational Physics, 2019, 395, 298-306.	3.8	12
20	System-AMG for Fully Coupled Reservoir Simulation with Geomechanics. , 2019, , .		5
21	INMOST Parallel Platform for Mathematical Modeling and Applications. Communications in Computer and Information Science, 2019, , 230-241.	0.5	7
22	Parallel Dynamic Mesh Adaptation Within INMOST Platform. Communications in Computer and Information Science, 2019, , 313-326.	0.5	4
23	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
24	Two methods of surface tension treatment in free surface flow simulations. Applied Mathematics Letters, 2018, 86, 236-242.	2.7	4
25	An adaptive numerical method for free surface flows passing rigidly mounted obstacles. Computers and Fluids, 2017, 148, 56-68.	2.5	8
26	Cell-centered nonlinear finite-volume methods for the heterogeneous anisotropic diffusion problem. Journal of Computational Physics, 2017, 330, 245-267.	3.8	62
27	Application of the Parallel INMOST Platform to Subsurface Flow and Transport Modelling. Lecture Notes in Computer Science, 2016, , 277-286.	1.3	2
28	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
29	A semi-Lagrangian method on dynamically adapted octree meshes. Russian Journal of Numerical Analysis and Mathematical Modelling, 2015, 30, .	0.6	10
30	A Unified Approach for Computing Tsunami, Waves, Floods, and Landslides. Lecture Notes in Computational Science and Engineering, 2015, , 643-650.	0.3	0
31	A monotone nonlinear finite volume method for diffusion equations and multiphase flows. Computational Geosciences, 2014, 18, 311-324.	2.4	64
32	Nonlinear Monotone FV Schemes for Radionuclide Geomigration and Multiphase Flow Models. Springer Proceedings in Mathematics and Statistics, 2014, , 655-663.	0.2	2
33	An octree-based solver for the incompressible Navier-Stokes equations with enhanced stability and low dissipation. Computers and Fluids, 2013, 84, 231-246.	2.5	35
34	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
35	Methods and efficiency estimation of parallel implementation of the β -model of general ocean circulation. Russian Journal of Numerical Analysis and Mathematical Modelling, 2011, 26, .	0.6	4
36	A Numerical method for the Simulation of Free Surface Flows of Viscoplastic Fluid in 3D. Journal of Computational Mathematics, 2011, 29, 605-622.	0.4	21