Vadim Lisitsa

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Topology-based characterization of chemically-induced pore space changes using reduction of 3D digital images. Journal of Computational Science, 2022, 58, 101550.	1.5	15
2	Multi-scale reconstruction of porous media from low-resolution core images using conditional generative adversarial networks. Journal of Natural Gas Science and Engineering, 2022, 99, 104411.	2.1	20
3	Numerical dispersion mitigation neural network for seismic modeling. Geophysics, 2022, 87, T237-T249.	1.4	8
4	Dispersion Analysis ofÂSmoothed Particle Hydrodynamics toÂStudy Convergence andÂNumerical Phenomena atÂCoarse Resolution. Lecture Notes in Computer Science, 2022, , 184-197.	1.0	1
5	GPU-based algorithm for evaluating the electrical resistivity of digital rocks. Computers and Mathematics With Applications, 2021, 82, 200-211.	1.4	15
6	Formation damage mechanism of a sandstone reservoir based on micro-computed tomography. Advances in Geo-Energy Research, 2021, 5, 25-38.	3.1	12
7	Digital Twins of Geological Objects: Development and Use. Communications in Computer and Information Science, 2021, , 300-311.	0.4	0
8	Numerical Simulation of the Reactive Transport at Pore Scale in 3D. Lecture Notes in Computer Science, 2021, , 375-387.	1.0	1
9	Digital Image Reduction for Analysis ofÂTopological Changes in Pore Space During Chemical Dissolution. Lecture Notes in Computer Science, 2021, , 382-393.	1.0	0
10	Poisson Solver for Upscaling the Physical Properties of Porous Materials. Lecture Notes in Computer Science, 2021, , 532-545.	1.0	0
11	Digital Twins of Hydrocarbon Reservoir. Lecture Notes in Computer Science, 2021, , 675-688.	1.0	0
12	Machine Learning-Based Numerical Dispersion Mitigation in Seismic Modelling. Lecture Notes in Computer Science, 2021, , 34-47.	1.0	5
13	Digital image reduction for the analysis of topological changes in the pore space of rock matrix. Computers and Geotechnics, 2021, 136, 104171.	2.3	6
14	A multi-level parallel algorithm for seismic imaging based on one-way wave equation migration. Computers and Mathematics With Applications, 2021, 97, 344-354.	1.4	2
15	Pore-scale simulation of remaining oil distribution in 3D porous media affected by wettability and capillarity based on volume of fluid method. International Journal of Multiphase Flow, 2021, 143, 103746.	1.6	51
16	Effect of particle content on relative permeabilities in water flooding. Journal of Petroleum Science and Engineering, 2021, 205, 108856.	2.1	6
17	Numerical Algorithm of Seismic Wave Propagation and Seismic Attenuation Estimation in Anisotropic Fractured Porous Fluid-Saturated Media. Lecture Notes in Computer Science, 2021, , 434-448.	1.0	0
18	Numerical Solution of Biot Equations inÂQuasi-static State. Lecture Notes in Computer Science, 2021, , 519-531.	1.0	2

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19	Influence of interfaces roughness on elastic properties of layered media. Probabilistic Engineering Mechanics, 2021, 66, 103170.	1.3	7
20	Wave Propagation in Fractured-Porous Media with Different Percolation Length of Fracture Systems. Lobachevskii Journal of Mathematics, 2020, 41, 1533-1544.	0.1	7
21	Numerical Simulation of Wave Propagation in 3D Elastic Media with Viscoelastic Formations. Lobachevskii Journal of Mathematics, 2020, 41, 1603-1614.	0.1	4
22	Computational topology-based characterization of pore space changes due to chemical dissolution of rocks. Applied Mathematical Modelling, 2020, 88, 21-37.	2.2	19
23	Attenuation mechanisms in fractured fluidâ€saturated porous rocks: a numerical modelling study. Geophysical Prospecting, 2019, 67, 935-955.	1.0	32
24	Parallel Algorithm for One-Way Wave Equation Based Migration for Seismic Imaging. Communications in Computer and Information Science, 2019, , 125-135.	0.4	1
25	Sixth-order accurate pseudo-spectral method for solving one-way wave equation. Applied Mathematics and Computation, 2019, 359, 34-51.	1.4	12
26	A Parallel Algorithm for Studying the Ice Cover Impact onto Seismic Waves Propagation in the Shallow Arctic Waters. Communications in Computer and Information Science, 2019, , 3-14.	0.4	0
27	Numerical Estimation of Seismic Wave Attenuation in Fractured Porous Fluid-Saturated Media. Lecture Notes in Computer Science, 2019, , 362-369.	1.0	0
28	Digital twins of multiscale 3D heterogeneous geological objects: 3D simulations and seismic imaging of faults, fractures and caves. Journal of Physics: Conference Series, 2019, 1392, 012051.	0.3	5
29	Statistical analysis of free-surface variability's impact on seismic wavefield. Soil Dynamics and Earthquake Engineering, 2019, 116, 86-95.	1.9	8
30	Numerical simulation of faults formation using the discrete element method. , 2019, , .		2
31	GPU-Based Discrete Element Modeling of Geological Faults. Communications in Computer and Information Science, 2019, , 225-236.	0.4	2
32	Digital Twin of the Seismogeological Object: Building and Application. Communications in Computer and Information Science, 2019, , 214-224.	0.4	0
33	GPU-accelerated discrete element modeling of geological faults. Journal of Physics: Conference Series, 2019, 1392, 012070.	0.3	0
34	Effect of CT image size and resolution on the accuracy of rock property estimates. Journal of Geophysical Research: Solid Earth, 2017, 122, 3635-3647.	1.4	65
35	Numerical study of fracture connectivity response in seismic wavefields. , 2017, , .		4
36	Detection of highly cavernous subseismic zones in carbonate reservoirs by scattered waves. , 2017, , .		0

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37	A two-scale geostatistical approach for elastic properties estimation. , 2017, , .		Ο
38	Seismic imaging and statistical analysis of fault facies models. Interpretation, 2017, 5, SP71-SP82.	0.5	16
39	Attenuation in Fluid-Saturated Fractured Porous Media—Quasi-Static Numerical Upscaling and Wave Propagation Modeling. , 2017, , .		1
40	Correlation analysis of statistical facies fault models. Doklady Earth Sciences, 2017, 473, 477-481.	0.2	5
41	Parallel Algorithm with Modulus Structure for Simulation of Seismic Wave Propagation in 3D Multiscale Multiphysics Media. Lecture Notes in Computer Science, 2017, , 42-57.	1.0	4
42	Simulation of Seismic Waves Propagation in Multiscale Media. Communications in Computer and Information Science, 2017, , 183-193.	0.4	0
43	Scale dependency of pore-space topology and transport properties of sandstone CT scans. , 2016, , .		2
44	Combination of the discontinuous Galerkin method with finite differences for simulation of seismic wave propagation. Journal of Computational Physics, 2016, 311, 142-157.	1.9	45
45	Dispersion analysis of discontinuous Galerkin method on triangular mesh for elastic wave equation. Applied Mathematical Modelling, 2016, 40, 5077-5095.	2.2	25
46	Influence of surface topography variation on repeatability of buried receiver data in desert environment. , 2015, , .		2
47	Fracture Orientation and Fluid Saturation of a Cavernous-Fractured Reservoir Via Imaging of the Scattering Energy. , 2015, , .		Ο
48	Local time–space mesh refinement for simulation of elastic wave propagation in multi-scale media. Journal of Computational Physics, 2015, 281, 669-689.	1.9	40
49	Numerical study of the interface errors of finite-difference simulations of seismic waves. Geophysics, 2014, 79, T219-T232.	1.4	59
50	Numerical experiments and field study of impact of fluid saturation of cavernous-fractured reservoirs of East Siberia to scattered waves. , 2014, , .		0
51	Simulation of seismic wave propagation in models with complex free-surface and sea-bed topographies based on the coupling of discontinuous Galerkin method and finite differences. , 2014, , .		0
52	Finite difference simulation of elastic wave propagation through 3D heterogeneous multiscale media based on locally refined grids. Numerical Analysis and Applications, 2013, 6, 40-48.	0.2	4
53	Numerical simulation of seismic wave propagation in models with complex intrusions: Anisotropy, attenuation, small-scale heterogeneities. , 2013, , .		0
54	Numerical simulation of seismic waves in models with anisotropic formations: coupling Virieux and Lebedev finite-difference schemes. Computational Geosciences, 2012, 16, 1135-1152.	1.2	20

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55	Application of M-PML absorbing boundary conditions to the numerical simulation of wave propagation in anisotropic media. Part II: Stability. Numerical Analysis and Applications, 2012, 5, 36-44.	0.2	12
56	Efficient finite-difference multi-scheme approach to the simulation of seismic waves in anisotropic media. Numerical Analysis and Applications, 2012, 5, 144-149.	0.2	0
57	Finite-difference algorithm with local time-space grid refinement for simulation of waves. Computational Geosciences, 2012, 16, 39-54.	1.2	18
58	Simulation of Seismic Waves Propagation in Multiscale Media: Impact of Cavernous/Fractured Reservoirs. Lecture Notes in Computer Science, 2012, , 54-64.	1.0	11
59	Application of M-PML reflectionless boundary conditions to the numerical simulation of wave propagation in anisotropic media. Part I: Reflectivity. Numerical Analysis and Applications, 2011, 4, 271-280.	0.2	19
60	On specific features of the Lebedev scheme in simulating elastic wave propagation in anisotropic media. Numerical Analysis and Applications, 2011, 4, 125-135.	0.2	16
61	Accuracy analysis of finiteâ€difference staggeredâ€grid numerical schemes for elasticâ€elastic and fluidâ€elastic interfaces. , 2010, , .		1
62	On the interface error analysis for finite difference wave simulation. Computational Geosciences, 2010, 14, 769-778.	1.2	41
63	Reflectionless truncation of target area for axially symmetric anisotropic elasticity. Journal of Computational and Applied Mathematics, 2010, 234, 1803-1809.	1.1	7
64	Lebedev scheme for the numerical simulation of wave propagation in 3D anisotropic elasticity‡. Geophysical Prospecting, 2010, 58, 619-635.	1.0	123
65	Accurate numerical simulation of sonic logging in arbitrary anisotropic viscoelastic media. , 2010, , .		4
66	Traveltime and Reflection Coefficients Accuracy of Staggered-grid Finite-difference Simulation of Seismic Waves. , 2010, , .		2
67	Local Time-Space Mesh Refinement for Finite Difference Simulation of Waves. , 2010, , 609-616.		0
68	Lebedev Schemes for Elastic Anisotropic Problems. , 2007, , .		7

Lebedev Schemes for Elastic Anisotropic Problems. , 2007, , . 68