List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A linear, decoupled and positivity-preserving numerical scheme for an epidemic model with advection and diffusion. Communications on Pure and Applied Analysis, 2023, 22, 40-57.	0.8	0
2	Fully implicit two-phase VT-flash compositional flow simulation enhanced by multilayer nonlinear elimination. Journal of Computational Physics, 2022, 449, 110790.	3.8	8
3	Parallel multilevel domain decomposition preconditioners for monolithic solution of non-isothermal flow in reservoir simulation. Computers and Fluids, 2022, 232, 105183.	2.5	1
4	Interfacial properties of the alkane+water system in the presence of carbon dioxide and hydrophobic silica. Fuel, 2022, 310, 122332.	6.4	22
5	An energy stable linear numerical method for thermodynamically consistent modeling of two-phase incompressible flow in porous media. Journal of Computational Physics, 2022, 451, 110854.	3.8	11
6	Interfacial properties of the aromatic hydrocarbonÂ+Âwater system in the presence of hydrophilic silica. Journal of Molecular Liquids, 2022, 346, 118272.	4.9	15
7	Intelligent Control on Urban Natural Gas Supply Using a Deep-Learning-Assisted Pipeline Dispatch Technique. Frontiers in Energy Research, 2022, 9, .	2.3	4
8	Matrix acidization in fractured porous media with the continuum fracture model and thermal Darcy-Brinkman-Forchheimer framework. Journal of Petroleum Science and Engineering, 2022, 211, 110210.	4.2	9
9	Flow behaviors of shale oil in kerogen slit by molecular dynamics simulation. Chemical Engineering Journal, 2022, 434, 134682.	12.7	43
10	Molecular dynamics simulation of swelling properties of Ca-montmorillonite at high temperatures. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 043102.	0.5	1
11	A field-based general framework to simulate fluids in parallel and the framework's application to a matrix acidization simulation. PLoS ONE, 2022, 17, e0261134.	2.5	2
12	Modulation of slippage at brine–oil interfaces by surfactants: The effects of surfactant density and tail length. Physics of Fluids, 2022, 34, 022106.	4.0	2
13	Biomagnetic Flow with CoFe2O4 Magnetic Particles through an Unsteady Stretching/Shrinking Cylinder. Magnetochemistry, 2022, 8, 27.	2.4	12
14	Intelligent Natural Gas and Hydrogen Pipeline Dispatching Using the Coupled Thermodynamics-Informed Neural Network and Compressor Boolean Neural Network. Processes, 2022, 10, 428.	2.8	13
15	Effect of Temperature on Oil–Water Separations Using Membranes in Horizontal Separators. Membranes, 2022, 12, 232.	3.0	6
16	Effects of Membrane Structure on Oil–Water Separation by Smoothed Particle Hydrodynamics. Membranes, 2022, 12, 387.	3.0	5
17	Study of interfacial properties of waterÂ+ÂmethaneÂ+Âoil three-phase systems by a simple molecular simulation protocol. Journal of Molecular Liquids, 2022, 356, 118951.	4.9	7
18	Bulk and Interfacial Properties of Brine or Alkane in the Presence of Carbon Dioxide, Methane, and Their Mixture. Industrial & Engineering Chemistry Research, 2022, 61, 5016-5029.	3.7	9

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19	Generalized multiscale finite element methods for the reduced model of Darcy flow in fractured porous media. Journal of Computational and Applied Mathematics, 2022, 413, 114305.	2.0	7
20	A fully explicit and unconditionally energy-stable scheme for Peng-Robinson VT flash calculation based on dynamic modeling. Journal of Computational Physics, 2022, 463, 111275.	3.8	7
21	Thermal cooling performance of convective non-Newtonian nanofluid flowing with variant power-index across moving extending surface. Scientific Reports, 2022, 12, .	3.3	12
22	A rock fabric classification method based on the grey level co-occurrence matrix and the Gaussian mixture model. Journal of Natural Gas Science and Engineering, 2022, 104, 104627.	4.4	4
23	Study on the multiphase heat and mass transfer mechanism in the dissociation of methane hydrate in reconstructed real-shape porous sediments. Energy, 2022, 254, 124421.	8.8	36
24	Thermodynamicallyâ€consistent flash calculation in energy industry: From iterative schemes to a unified thermodynamicsâ€informed neural network. International Journal of Energy Research, 2022, 46, 15332-15346.	4.5	14
25	Scalable semismooth Newton methods with multilevel domain decomposition for subsurface flow and reactive transport in porous media. Journal of Computational Physics, 2022, 467, 111440.	3.8	2
26	Fractional derivative modeling of double-diffusive free convection with von Neumann stability analysis. International Journal of Modelling and Simulation, 2021, 41, 385-396.	3.3	1
27	A new physics-preserving IMPES scheme for incompressible and immiscible two-phase flow in heterogeneous porous media. Journal of Computational and Applied Mathematics, 2021, 381, 113035.	2.0	10
28	Swelling pressure of montmorillonite with multiple water layers at elevated temperatures and water pressures: A molecular dynamics study. Applied Clay Science, 2021, 201, 105924.	5.2	21
29	Numerical investigation of carbonate acidizing with gelled acid using a coupled thermal–hydrologic–chemical model. International Journal of Thermal Sciences, 2021, 160, 106700.	4.9	26
30	Influence of fractal surface roughness on multiphase flow behavior: Lattice Boltzmann simulation. International Journal of Multiphase Flow, 2021, 134, 103497.	3.4	17
31	Editorial: Advanced modeling and simulation of flow in subsurface reservoirs with fractures and wells for a sustainable industry. Oil and Gas Science and Technology, 2021, 76, E1.	1.4	0
32	DESIGN AND FABRICATION OF ROCK-BASED MICROFLUIDICS BY 3D PRINTING: THE STRUCTURE CHARACTERIZATION AND PORE-SCALE FLOW EXPERIMENT VALIDATION. Journal of Porous Media, 2021, 24, 77-92.	1.9	1
33	Water uptake in parallel fractures. Capillarity, 2021, 4, 1-12.	2.2	0
34	Thermodynamically consistent Darcy–Brinkman–Forchheimer framework in matrix acidization. Oil and Gas Science and Technology, 2021, 76, 8.	1.4	6
35	A Unified, One Fluid Model for the Drag of Fluid and Solid Dispersals by Permeate Flux towards a Membrane Surface. Membranes, 2021, 11, 154.	3.0	1
36	Numerical Analysis of a Continuous Vulcanization Line to Enhance CH4 Reduction in XLPE-Insulated Cables. Materials, 2021, 14, 1018.	2.9	2

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37	The Effect of the Oleophobicity Deterioration of a Membrane Surface on Its Rejection Capacity: A Computational Fluid Dynamics Study. Membranes, 2021, 11, 253.	3.0	5
38	Dissociation and transport modeling of methane hydrate in core-scale sandy sediments: A comparative study. Energy, 2021, 221, 119890.	8.8	20
39	Multiscale pore structure characterization based on SEM images. Fuel, 2021, 289, 119915.	6.4	13
40	Image-based rock typing using grain geometry features. Computers and Geosciences, 2021, 149, 104703.	4.2	13
41	Sorption and Diffusion of Methane, Carbon Dioxide, and Their Mixture in Amorphous Polyethylene at High Pressures and Temperatures. Industrial & Engineering Chemistry Research, 2021, 60, 7729-7738.	3.7	20
42	Improved IMPES Scheme for the Simulation of Incompressible Three-Phase Flows in Subsurface Porous Media. Energies, 2021, 14, 2757.	3.1	3
43	Image-based rock typing using local homogeneity filter and Chan-Vese model. Computers and Geosciences, 2021, 150, 104712.	4.2	5
44	An exploratory multi-scale framework to reservoir digital twin. Advances in Geo-Energy Research, 2021, 5, 239-251.	6.0	5
45	Review on space energy. Applied Energy, 2021, 292, 116896.	10.1	35
46	Modeling of Water Generation from Air Using Anhydrous Salts. Energies, 2021, 14, 3822.	3.1	7
47	Investigation of the dynamics of immiscible displacement of a ganglion in capillaries. Capillarity, 2021, 4, 31-44.	2.2	12
48	Numerical modeling on hydrate formation and evaluating the influencing factors of its heterogeneity in core-scale sandy sediment. Journal of Natural Gas Science and Engineering, 2021, 90, 103945.	4.4	18
49	Spectral relaxation computation of electroconductive nanofluid convection flow from a moving surface with radiative flux and magnetic induction. Journal of Computational Design and Engineering, 2021, 8, 1158-1171.	3.1	2
50	Bulk and Interfacial Properties of the Decane + Brine System in the Presence of Carbon Dioxide, Methane, and Their Mixture. Industrial & Engineering Chemistry Research, 2021, 60, 11525-11534.	3.7	11
51	Overview of the Adsorption and Transport Properties of Water, lons, Carbon Dioxide, and Methane in Swelling Clays. ACS Earth and Space Chemistry, 2021, 5, 2599-2611.	2.7	23
52	Lunar features detection for energy discovery via deep learning. Applied Energy, 2021, 296, 117085.	10.1	10
53	Sedapp v2021: a nonlinear diffusion-based forward stratigraphic model for shallow marine environments. Geoscientific Model Development, 2021, 14, 4925-4937.	3.6	0
54	Characterization and microfabrication of natural porous rocks: From micro-CT imaging and digital rock modelling to micro-3D-printed rock analogs. Journal of Petroleum Science and Engineering, 2021, 205, 108827.	4.2	33

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55	Bound-preserving inexact Newton algorithms on parallel computers for wormhole propagation in porous media. Computers and Geotechnics, 2021, 138, 104340.	4.7	2
56	Image-based grain partitioning using skeleton extension erosion method. Journal of Petroleum Science and Engineering, 2021, 205, 108797.	4.2	3
57	A self-adaptive deep learning algorithm for intelligent natural gas pipeline control. Energy Reports, 2021, 7, 3488-3496.	5.1	26
58	Dynamics of ion depletion in thin brine films. Fuel, 2021, 306, 121758.	6.4	1
59	Pore scale modeling on dissociation and transportation of methane hydrate in porous sediments. Energy, 2021, 237, 121630.	8.8	23
60	Bulk and Interfacial Properties of Alkanes in the Presence of Carbon Dioxide, Methane, and Their Mixture. Industrial & Engineering Chemistry Research, 2021, 60, 729-738.	3.7	17
61	Interfacial behavior of the decane + brine + surfactant system in the presence of carbon dioxide, methane, and their mixture. Soft Matter, 2021, 17, 10545-10554.	2.7	8
62	Molecular Dynamics Modeling of Kaolinite Particle Associations. Journal of Physical Chemistry C, 2021, 125, 24126-24136.	3.1	7
63	Thermodynamics-Informed Neural Network (TINN) for Phase Equilibrium Calculations Considering Capillary Pressure. Energies, 2021, 14, 7724.	3.1	27
64	A decoupled scheme to solve the mass and momentum conservation equations of the improved Darcy–Brinkman–Forchheimer framework in matrix acidization. AIP Advances, 2021, 11, .	1.3	1
65	Low salinity effect on the recovery of oil trapped by nanopores: A molecular dynamics study. Fuel, 2020, 261, 116443.	6.4	26
66	A Novel Energy Factorization Approach for the Diffuse-Interface Model with Peng–Robinson Equation of State. SIAM Journal of Scientific Computing, 2020, 42, B30-B56.	2.8	34
67	A locally and globally phase-wise mass conservative numerical algorithm for the two-phase immiscible flow problems in porous media. Computers and Geotechnics, 2020, 119, 103370.	4.7	7
68	A phase-field moving contact line model with soluble surfactants. Journal of Computational Physics, 2020, 405, 109170.	3.8	74
69	Generalized multiscale approximation of mixed finite elements with velocity elimination for subsurface flow. Journal of Computational Physics, 2020, 404, 109133.	3.8	16
70	Bulk and Interfacial Properties of the Decane + Water System in the Presence of Methane, Carbon Dioxide, and Their Mixture. Journal of Physical Chemistry B, 2020, 124, 9556-9569.	2.6	30
71	Accelerating flash calculations in unconventional reservoirs considering capillary pressure using an optimized deep learning algorithm. Journal of Petroleum Science and Engineering, 2020, 195, 107886.	4.2	44
72	Adsorption and Diffusion of Carbon Dioxide, Methane, and Their Mixture in Carbon Nanotubes in the Presence of Water. Journal of Physical Chemistry C, 2020, 124, 16478-16487.	3.1	40

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73	Evaluation of elastoplastic properties of brittle sandstone at microscale using microâ€indentation test and simulation. Energy Science and Engineering, 2020, 8, 3490-3501.	4.0	2
74	Theoretical stability analysis of mixed finite element model of shale-gas flow with geomechanical effect. Oil and Gas Science and Technology, 2020, 75, 33.	1.4	2
75	A Digital Twin for Unconventional Reservoirs: A Multiscale Modeling and Algorithm to Investigate Complex Mechanisms. Geofluids, 2020, 2020, 1-12.	0.7	9
76	Numerical Study of CH4 Generation and Transport in XLPE-Insulated Cables in Continuous Vulcanization. Materials, 2020, 13, 2978.	2.9	3
77	Dual solution of boundary-layer flow driven by variable plate and streaming-free velocity. Advances in Mechanical Engineering, 2020, 12, 168781402093084.	1.6	1
78	Thermodynamically consistent modeling of two-phase incompressible flows in heterogeneous and fractured media. Oil and Gas Science and Technology, 2020, 75, 32.	1.4	8
79	Stability theory of nano-fluid over an exponentially stretching cylindrical surface containing microorganisms. Scientific Reports, 2020, 10, 17004.	3.3	8
80	Effect of salinity on oil production: review on low salinity waterflooding mechanisms and exploratory study on pipeline scaling. Oil and Gas Science and Technology, 2020, 75, 50.	1.4	22
81	A Comprehensive Experimental Study on Mechanical Behavior, Microstructure and Transport Properties of 3D-printed Rock Analogs. Rock Mechanics and Rock Engineering, 2020, 53, 5745-5765.	5.4	47
82	A self-adaptive deep learning algorithm for accelerating multi-component flash calculation. Computer Methods in Applied Mechanics and Engineering, 2020, 369, 113207.	6.6	73
83	Thermodynamic modeling of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">altimg="si1.svg"&gt;<mml:mrow><mml:msub><mml:mtext>CO</mml:mtext><mml:mn>2</mml:mn>solubility in saline water using NVT flash with the cubic-Plus-association equation of state. Fluid Phase Equilibria, 2020, 520, 112657.</mml:msub></mml:mrow></mml:math>	ıb> <td>row&gt;</td>	row>
84	A POD-DEIM reduced model for compressible gas reservoir flow based on the Peng-Robinson equation of state. Journal of Natural Gas Science and Engineering, 2020, 79, 103367.	4.4	7
85	Review of classical reservoir simulation. , 2020, , 23-86.		3
86	Recent progress in pore scale reservoir simulation. , 2020, , 87-142.		0
87	Recent progress in Darcy's scale reservoir simulation. , 2020, , 143-204.		0
88	Recent progress in multiscale and mesoscopic reservoir simulation. , 2020, , 205-258.		2
89	Recent progress in accelerating flash calculation using deep learning algorithms. , 2020, , 289-322.		0
90	Nonlinearly preconditioned constraint-preserving algorithms for subsurface three-phase flow with capillarity. Computer Methods in Applied Mechanics and Engineering, 2020, 367, 113140.	6.6	7

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91	Sorption and Diffusion of Methane and Carbon Dioxide in Amorphous Poly(alkyl acrylates): A Molecular Simulation Study. Journal of Physical Chemistry B, 2020, 124, 1301-1310.	2.6	29
92	Unconditionally stable, efficient and robust numerical simulation of isothermal compositional grading by gravity. Journal of Computational Science, 2020, 43, 101109.	2.9	2
93	Fully discrete energy stable scheme for a phase-field moving contact line model with variable densities and viscosities. Applied Mathematical Modelling, 2020, 83, 614-639.	4.2	26
94	Visualized Experiments on Residual Oil Classification and Its Influencing Factors in Waterflooding Using Micro-Computed Tomography. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	2.3	19
95	A 6M digital twin for modeling and simulation in subsurface reservoirs. Advances in Geo-Energy Research, 2020, 4, 349-351.	6.0	15
96	The effect of surface pattern property on the advancing motion of three-dimensional droplets. Discrete and Continuous Dynamical Systems - Series B, 2020, .	0.9	0
97	Numerical Investigation of Solute Transport in Fractured Porous Media Using the Discrete Fracture Model. Lecture Notes in Computer Science, 2020, , 102-115.	1.3	0
98	A Machine-Learning based generalization for an iterative Hybrid Embedded Fracture scheme. Journal of Petroleum Science and Engineering, 2020, 194, 107235.	4.2	4
99	Advances in Gaussian random field generation: a review. Computational Geosciences, 2019, 23, 1011-1047.	2.4	55
100	Parallel reservoir simulators for fully implicit complementarity formulation of multicomponent compressible flows. Computer Physics Communications, 2019, 244, 2-12.	7.5	7
101	Structure, Thermodynamics, and Dynamics of Thin Brine Films in Oil–Brine–Rock Systems. Langmuir, 2019, 35, 10341-10353.	3.5	23
102	A fully implicit constraint-preserving simulator for the black oil model of petroleum reservoirs. Journal of Computational Physics, 2019, 396, 347-363.	3.8	27
103	Two-dimensional gyrotactic microorganisms flow of hydromagnetic power law nanofluid past an elongated sheet. Advances in Mechanical Engineering, 2019, 11, 168781401988125.	1.6	26
104	Heat and Mass Transfer in a Viscous Nanofluid Containing a Gyrotactic Micro-Organism Over a Stretching Cylinder. Symmetry, 2019, 11, 1131.	2.2	13
105	Controlling Factors of Degassing in Crosslinked Polyethylene Insulated Cables. Polymers, 2019, 11, 1439.	4.5	11
106	Competitive adsorption phenomenon in shale gas displacement processes. RSC Advances, 2019, 9, 25326-25335.	3.6	35
107	Darcy-scale phase equilibrium modeling with gravity and capillarity. Journal of Computational Physics, 2019, 399, 108908.	3.8	23
108	Thermodynamically consistent modelling of two-phase flows with moving contact line and soluble surfactants. Journal of Fluid Mechanics, 2019, 879, 327-359.	3.4	108

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109	Emerging Advances in Petrophysics: Porous Media Characterization and Modeling of Multiphase Flow. Energies, 2019, 12, 282.	3.1	7
110	A fully mass-conservative iterative IMPEC method for multicomponent compressible flow in porous media. Journal of Computational and Applied Mathematics, 2019, 362, 1-21.	2.0	22
111	Modeling and analysis of the acidizing process in carbonate rocks using a two-phase thermal-hydrologic-chemical coupled model. Chemical Engineering Science, 2019, 207, 215-234.	3.8	36
112	Accelerating flash calculation through deep learning methods. Journal of Computational Physics, 2019, 394, 153-165.	3.8	42
113	Acceleration of the <i>NVT</i> Flash Calculation for Multicomponent Mixtures Using Deep Neural Network Models. Industrial & Engineering Chemistry Research, 2019, 58, 12312-12322.	3.7	30
114	Adsorption and Diffusion of Methane and Carbon Dioxide in Amorphous Regions of Cross-Linked Polyethylene: A Molecular Simulation Study. Industrial & Engineering Chemistry Research, 2019, 58, 8426-8436.	3.7	40
115	Fully mass-conservative IMPES schemes for incompressible two-phase flow in porous media. Computer Methods in Applied Mechanics and Engineering, 2019, 350, 641-663.	6.6	33
116	A coupled Lattice Boltzmann approach to simulate gas flow and transport in shale reservoirs with dynamic sorption. Fuel, 2019, 246, 196-203.	6.4	65
117	A tutorial review of reactive transport modeling and risk assessment for geologic <mml:math altimg="si1.gif" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><m< td=""><td>row<sup>4,2</sup>mm</td><td>l:mn³2</td></m<></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:math>	row <sup>4,2</sup> mm	l:mn³2
118	Numerical Approximation of a Phase-Field Surfactant Model with Fluid Flow. Journal of Scientific Computing, 2019, 80, 223-247.	2.3	29
119	Effect of Ion Valency on the Properties of the Carbon Dioxide–Methane–Brine System. Journal of Physical Chemistry B, 2019, 123, 2719-2727.	2.6	26
120	Numerical investigation of the POD reduced-order model for fast predictions of two-phase flows in porous media. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4167-4204.	2.8	12
121	Bulk and interfacial properties of decane in the presence of carbon dioxide, methane, and their mixture. Scientific Reports, 2019, 9, 19784.	3.3	31
122	Layer Charge Effects on Adsorption and Diffusion of Water and lons in Interlayers and on External Surfaces of Montmorillonite. ACS Earth and Space Chemistry, 2019, 3, 2635-2645.	2.7	37
123	A semi-analytic porosity evolution scheme for simulating wormhole propagation with the Darcy–Brinkman–Forchheimer model. Journal of Computational and Applied Mathematics, 2019, 348, 401-420.	2.0	17
124	Molecular Simulation Study of Montmorillonite in Contact with Water. Industrial & Engineering Chemistry Research, 2019, 58, 1396-1403.	3.7	51
125	Efficient energy-stable schemes for the hydrodynamics coupled phase-field model. Applied Mathematical Modelling, 2019, 70, 82-108.	4.2	83
126	Homogenization of two-phase fluid flow in porous media via volume averaging. Journal of Computational and Applied Mathematics, 2019, 353, 265-282.	2.0	13

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127	Editorial to the Special Issue: Modeling and Characterization of Low Permeability (Tight) and Nanoporous Reservoirs. Transport in Porous Media, 2019, 126, 523-525.	2.6	1
128	Numerical Modeling and Simulation of Shale-Gas Transport with Geomechanical Effect. Transport in Porous Media, 2019, 126, 779-806.	2.6	5
129	The transport of nanoparticles in subsurface with fractured, anisotropic porous media: Numerical simulations and parallelization. Journal of Computational and Applied Mathematics, 2019, 350, 1-18.	2.0	12
130	Flow Mechanism and Simulation Approaches for Shale Gas Reservoirs: A Review. Transport in Porous Media, 2019, 126, 655-681.	2.6	41
131	HOMOGENIZE COUPLED STOKES–CAHN–HILLIARD SYSTEM TO DARCY'S LAW FOR TWO-PHASE FLUID FLOW IN POROUS MEDIUM BY VOLUME AVERAGING. Journal of Porous Media, 2019, 22, 1-19.	/ 1.9	4
132	Comparison of multi-field coupling numerical simulation in hot dry rock thermal exploitation of enhanced geothermal systems. Advances in Geo-Energy Research, 2019, 3, 396-409.	6.0	15
133	Phase equilibrium calculations in shale gas reservoirs. Capillarity, 2019, 2, 8-16.	2.2	19
134	Mixed Finite Element Solution for the Natural-Gas Dual-Mechanism Model. Lecture Notes in Computer Science, 2019, , 437-444.	1.3	0
135	Energy Stable Simulation of Two-Phase Equilibria with Capillarity. Lecture Notes in Computer Science, 2019, , 538-550.	1.3	0
136	Accelerated Phase Equilibrium Predictions for Subsurface Reservoirs Using Deep Learning Methods. Lecture Notes in Computer Science, 2019, , 623-632.	1.3	1
137	Flow split characterization of two immiscible phases with different wettability scenarios: A numerical investigation using a coupled Cahn–Hilliard and Navier–Stokes system. International Journal of Multiphase Flow, 2018, 100, 172-185.	3.4	17
138	Physics-preserving averaging scheme based on Grünwald-Letnikov formula for gas flow in fractured media. Journal of Petroleum Science and Engineering, 2018, 163, 616-639.	4.2	9
139	A globally mass-conservative method for dual-continuum gas reservoir simulation. Journal of Natural Gas Science and Engineering, 2018, 53, 301-316.	4.4	22
140	A stable algorithm for calculating phase equilibria with capillarity at specified moles, volume and temperature using a dynamic model. Fluid Phase Equilibria, 2018, 456, 7-24.	2.5	40
141	Discrete-fracture-model of multi-scale time-splitting two-phase flow including nanoparticles transport in fractured porous media. Journal of Computational and Applied Mathematics, 2018, 333, 327-349.	2.0	14
142	Thermodynamically consistent modeling and simulation of multi-component two-phase flow with partial miscibility. Computer Methods in Applied Mechanics and Engineering, 2018, 331, 623-649.	6.6	44
143	Energy Stability Analysis of Some Fully Discrete Numerical Schemes for Incompressible Navier–Stokes Equations on Staggered Grids. Journal of Scientific Computing, 2018, 75, 427-456.	2.3	12
144	A scalable fully implicit framework for reservoir simulation on parallel computers. Computer Methods in Applied Mechanics and Engineering, 2018, 330, 334-350.	6.6	24

#	Article	IF	CITATIONS
145	Preparation of Highly Porous Polymer Membranes with Hierarchical Porous Structures via Spinodal Decomposition of Mixed Solvents with UCST Phase Behavior. ACS Applied Materials & Interfaces, 2018, 10, 44041-44049.	8.0	38
146	Linearly Decoupled Energy-Stable Numerical Methods for Multicomponent Two-Phase Compressible Flow. SIAM Journal on Numerical Analysis, 2018, 56, 3219-3248.	2.3	56
147	Thermodynamically Stable Two-Phase Equilibrium Calculation of Hydrocarbon Mixtures with Capillary Pressure. Industrial & Engineering Chemistry Research, 2018, 57, 17276-17288.	3.7	13
148	Sedimentology and mechanism of a lacustrine syn-rift fan delta system: A case study of the Paleogene Gaobei Slope Belt, Bohai Bay Basin, China. Marine and Petroleum Geology, 2018, 98, 477-490.	3.3	10
149	Entropy stable modeling of non-isothermal multi-component diffuse-interface two-phase flows with realistic equations of state. Computer Methods in Applied Mechanics and Engineering, 2018, 341, 221-248.	6.6	17
150	A Compact and Efficient Lattice Boltzmann Scheme to Simulate Complex Thermal Fluid Flows. Lecture Notes in Computer Science, 2018, , 149-162.	1.3	4
151	Mixed Finite Element Simulation with Stability Analysis for Gas Transport in Low-Permeability Reservoirs. Energies, 2018, 11, 208.	3.1	10
152	Decoupled, energy stable schemes for a phase-field surfactant model. Computer Physics Communications, 2018, 233, 67-77.	7.5	42
153	LES Study on High Reynolds Turbulent Drag-Reducing Flow of Viscoelastic Fluids Based on Multiple Relaxation Times Constitutive Model and Mixed Subgrid-Scale Model. Lecture Notes in Computer Science, 2018, , 174-188.	1.3	1
154	Study on an N-Parallel FENE-P Constitutive Model Based on Multiple Relaxation Times for Viscoelastic Fluid. Lecture Notes in Computer Science, 2018, , 610-623.	1.3	1
155	Thermodynamically consistent simulation of nonisothermal diffuse-interface two-phase flow with Peng–Robinson equation of state. Journal of Computational Physics, 2018, 371, 581-605.	3.8	17
156	Adaptive Time-Splitting Scheme for Nanoparticles Transport with Two-Phase Flow in Heterogeneous Porous Media. Lecture Notes in Computer Science, 2018, , 366-378.	1.3	1
157	A Componentwise Convex Splitting Scheme for Diffuse Interface Models with Van der Waals and Peng-Robinson Equations of State. SIAM Journal of Scientific Computing, 2017, 39, B1-B28.	2.8	36
158	Molecular Simulation Study of Montmorillonite in Contact with Variably Wet Supercritical Carbon Dioxide. Journal of Physical Chemistry C, 2017, 121, 6199-6208.	3.1	43
159	Numerical modeling of isothermal compositional grading by convex splitting methods. Journal of Natural Gas Science and Engineering, 2017, 43, 207-221.	4.4	10
160	Effects of radiation and thermal conductivity on MHD boundary layer flow with heat transfer along a vertical stretching sheet in a porous medium. Journal of Engineering Thermophysics, 2017, 26, 96-106.	1.4	5
161	Effects of nanoparticles on melting process with phase-change using the lattice Boltzmann method. Results in Physics, 2017, 7, 1676-1682.	4.1	10
162	Multiscale Adapted Time-Splitting Technique for Nonisothermal Two-Phase Flow and Nanoparticles Transport in Heterogenous Porous Media. , 2017, , .		2

#	Article	IF	CITATIONS
163	A residual-based a posteriori error estimator for single-phase Darcy flow in fractured porous media. Numerische Mathematik, 2017, 136, 805-839.	1.9	12
164	Understanding the True Stimulated Reservoir Volume in Shale Reservoirs. , 2017, , .		1
165	Nonlinearly preconditioned semismooth Newton methods for variational inequality solution of two-phase flow in porous media. Journal of Computational Physics, 2017, 332, 1-20.	3.8	36
166	An efficient two-scale hybrid embedded fracture model for shale gas simulation. Journal of Petroleum Science and Engineering, 2017, 152, 683-714.	4.2	14
167	Molecular Dynamics Simulation Study of Carbon Dioxide, Methane, and Their Mixture in the Presence of Brine. Journal of Physical Chemistry B, 2017, 121, 9688-9698.	2.6	60
168	A Multiscale Time-Splitting Discrete Fracture Model of Nanoparticles Transport in Fractured Porous Media. , 2017, , .		1
169	Convergence analysis of the nonlinear iterative method for two-phase flow in porous media associated with nanoparticle injection. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 2289-2317.	2.8	13
170	Dual-mixed finite elements for the three-field Stokes model as a finite volume method on staggered grids. Procedia Computer Science, 2017, 108, 2265-2274.	2.0	0
171	Reduced Fracture Finite Element Model Analysis of an Efficient Two-Scale Hybrid Embedded Fracture Model. Procedia Computer Science, 2017, 108, 1873-1882.	2.0	1
172	A Fast Algorithm to Simulate Droplet Motions in Oil/Water Two Phase Flow. Procedia Computer Science, 2017, 108, 1953-1962.	2.0	3
173	Comparative study of shale-gas production using single- and dual-continuum approaches. Journal of Petroleum Science and Engineering, 2017, 157, 894-905.	4.2	11
174	Numerical Simulation of Magnetic Nanoparticles Injection into Two–phase Flow in a Porous Medium. Procedia Computer Science, 2017, 108, 2260-2264.	2.0	10
175	Analytical solution for fractional derivative gas-flow equation in porous media. Results in Physics, 2017, 7, 2432-2438.	4.1	29
176	Complexation Behavior of Polyelectrolytes and Polyampholytes. Journal of Physical Chemistry B, 2017, 121, 7987-7998.	2.6	27
177	Integrating gravimetric and interferometric synthetic aperture radar data for enhancing reservoir history matching of carbonate gas and volatile oil reservoirs. Geophysical Prospecting, 2017, 65, 337-364.	1.9	3
178	Multi-scale high-performance fluid flow: Simulations through porous media. Advances in Engineering Software, 2017, 103, 85-98.	3.8	3
179	Direct numerical simulation of noninvasive channel healing in electrical field. Advances in Mechanical Engineering, 2017, 9, 168781401772328.	1.6	0
180	Flow and Transport in Tight and Shale Formations: A Review. Geofluids, 2017, 2017, 1-21.	0.7	28

#	Article	IF	CITATIONS
181	Modeling and Analysis of Magnetic Nanoparticles Injection in Water-Oil Two-Phase Flow in Porous Media under Magnetic Field Effect. Geofluids, 2017, 2017, 1-12.	0.7	8
182	Flow and Transport in Porous Media: A Multiscale Focus. Geofluids, 2017, 2017, 1-3.	0.7	5
183	Computing and Comparing Effective Properties for Flow and Transport in Computer-Generated Porous Media. Geofluids, 2017, 2017, 1-24.	0.7	14
184	Acceleration of Gas Flow Simulations in Dual-Continuum Porous Media Based on the Mass-Conservation POD Method. Energies, 2017, 10, 1380.	3.1	12
185	Review on Dynamic Van der Waals Theory in two-phase flow. Advances in Geo-Energy Research, 2017, 1, 124-134.	6.0	8
186	Adaptive time-splitting scheme for two-phase flow in heterogeneous porous media. Advances in Geo-Energy Research, 2017, 1, 182-189.	6.0	8
187	Stability and Convergence Analysis of Second-Order Schemes for a Diffuse Interface Model with Peng-Robinson Equation of State. Journal of Computational Mathematics, 2017, 35, 737-765.	0.4	6
188	An Experimenting Field Approach for the Numerical Solution of Multiphase Flow in Porous Media. Ground Water, 2016, 54, 262-273.	1.3	4
189	Single-site Lennard-Jones models via polynomial chaos surrogates of Monte Carlo molecular simulation. Journal of Chemical Physics, 2016, 144, 214301.	3.0	0
190	Effects of Multiple Transport Mechanisms on Shale Gas Production Behavior. , 2016, , .		3
191	Equivalence of two models in single-phase multicomponent flow simulations. Computers and Mathematics With Applications, 2016, 71, 1303-1316.	2.7	4
192	Multi-scale diffuse interface modeling of multi-component two-phase flow with partial miscibility. Journal of Computational Physics, 2016, 318, 349-372.	3.8	22
193	Modeling Pore-scale Oil-gas Systems Using Gradient Theory with Peng-robinson Equation of State. Procedia Computer Science, 2016, 80, 1364-1373.	2.0	2
194	A Two-Scale Reduced Model for Darcy Flow in Fractured Porous Media. Procedia Computer Science, 2016, 80, 1324-1333.	2.0	1
195	An Iterative Implicit Scheme for Nanoparticles Transport with Two-Phase Flow in Porous Media. Procedia Computer Science, 2016, 80, 1344-1353.	2.0	34
196	Adaptive mixed finite element methods for Darcy flow in fractured porous media. Water Resources Research, 2016, 52, 7851-7868.	4.2	17
197	Active-Set Reduced-Space Methods with Nonlinear Elimination for Two-Phase Flow Problems in Porous Media. SIAM Journal of Scientific Computing, 2016, 38, B593-B618.	2.8	43
198	Direct Calculation of Permeability by High-Accurate Finite Difference and Numerical Integration Methods. Communications in Computational Physics, 2016, 20, 405-440.	1.7	16

#	Article	IF	CITATIONS
199	Multi-scale Coupling between Monte Carlo Molecular Simulation and Darcy-Scale Flow in Porous Media. Procedia Computer Science, 2016, 80, 1354-1363.	2.0	1
200	Numerical simulation of fluid flow and heat transfer processes 2015. Advances in Mechanical Engineering, 2016, 8, 168781401666461.	1.6	0
201	POD-Galerkin Model for Incompressible Single-Phase Flow in Porous Media. Open Physics, 2016, 14, 588-601.	1.7	6
202	Synergizing Crosswell Seismic and Electromagnetic Techniques for Enhancing Reservoir Characterization. SPE Journal, 2016, 21, 909-927.	3.1	12
203	Molecular Dynamics Simulations of Carbon Dioxide, Methane, and Their Mixture in Montmorillonite Clay Hydrates. Journal of Physical Chemistry C, 2016, 120, 12517-12529.	3.1	82
204	Residual-based a posteriori error estimation for multipoint flux mixed finite element methods. Numerische Mathematik, 2016, 134, 197-222.	1.9	7
205	High-Performance Modeling of Carbon Dioxide Sequestration by Coupling Reservoir Simulation and Molecular Dynamics. SPE Journal, 2016, 21, 0853-0863.	3.1	6
206	Adsorption of carbon dioxide, methane, and their mixture by montmorillonite in the presence of water. Microporous and Mesoporous Materials, 2016, 225, 331-341.	4.4	100
207	Enhanced characterization of reservoir hydrocarbon components using electromagnetic data attributes. Journal of Petroleum Science and Engineering, 2016, 140, 1-15.	4.2	6
208	An energy stable evolution method for simulating two-phase equilibria of multi-component fluids at constant moles, volume and temperature. Computational Geosciences, 2016, 20, 283-295.	2.4	21
209	Adaptive mixed-hybrid and penalty discontinuous Galerkin method for two-phase flow in heterogeneous media. Journal of Computational and Applied Mathematics, 2016, 307, 262-283.	2.0	15
210	Numerical Investigation on the Effects of a Precursor Wetting Film on the Displacement of Two Immiscible Phases Along a Channel. Flow, Turbulence and Combustion, 2016, 96, 757-771.	2.6	18
211	Mixed finite element-based fully conservative methods for simulating wormhole propagation. Computer Methods in Applied Mechanics and Engineering, 2016, 298, 279-302.	6.6	33
212	Unconditionally stable methods for simulating multi-component two-phase interface models with Peng–Robinson equation of state and various boundary conditions. Journal of Computational and Applied Mathematics, 2016, 291, 158-182.	2.0	24
213	Speeding up Monte Carlo molecular simulation by a non-conservative early rejection scheme. Molecular Simulation, 2016, 42, 229-241.	2.0	2
214	A numerical study of three-dimensional droplets spreading on chemically patterned surfaces. Discrete and Continuous Dynamical Systems - Series B, 2016, 21, 2905-2926.	0.9	2
215	Numerical simulation and analysis of confined turbulent buoyant jet with variable source. Journal of Hydrodynamics, 2015, 27, 955-968.	3.2	9
216	Switching Between the NVT and NpT Ensembles Using the Reweighting and Reconstruction Scheme. Procedia Computer Science, 2015, 51, 1259-1268.	2.0	8

#	Article	IF	CITATIONS
217	History Matching of Electromagnetically Heated Reservoirs Incorporating Full-Wavefield Seismic and Electromagnetic Imaging. SPE Journal, 2015, 20, 923-941.	3.1	25
218	Pore network modeling of drainage process in patterned porous media: A quasi-static study. Journal of Computational Science, 2015, 9, 64-69.	2.9	8
219	Investigation of Guided-Particle Transport for Noninvasive Healing of Damaged Piping Systems by Use of Electro-Magneto-Mechanical Methods. SPE Journal, 2015, 20, 872-883.	3.1	2
220	Numerical Simulation of Natural Gas Flow in Anisotropic Shale Reservoirs. , 2015, , .		4
221	Statistical Inversion of Absolute Permeability in Single-phase Darcy Flow. Procedia Computer Science, 2015, 51, 1188-1197.	2.0	5
222	Numerical Simulation of Fluid Flow and Heat Transfer Processes 2014. Advances in Mechanical Engineering, 2015, 7, 645351.	1.6	3
223	Speeding up the flash calculations in two-phase compositional flow simulations – The application of sparse grids. Journal of Computational Physics, 2015, 285, 88-99.	3.8	18
224	The Superconvergence Phenomenon and Proof of the MAC Scheme for the Stokes Equations on Non-uniform Rectangular Meshes. Journal of Scientific Computing, 2015, 65, 341-362.	2.3	33
225	Advances in petroleum storage and transportation engineering. Advances in Mechanical Engineering, 2015, 7, 168781401456849.	1.6	0
226	Enhanced heavy oil recovery for carbonate reservoirs integrating cross-well seismic – A synthetic Wafra case study. Journal of Petroleum Science and Engineering, 2015, 134, 1-13.	4.2	3
227	Numerical Methods for a Multicomponent Two-Phase Interface Model with Geometric Mean Influence Parameters. SIAM Journal of Scientific Computing, 2015, 37, B543-B569.	2.8	23
228	Numerical Treatment of Two-phase Flow in Porous Media Including Specific Interfacial Area. Procedia Computer Science, 2015, 51, 1249-1258.	2.0	8
229	An Algorithm for the Numerical Solution of the Pseudo Compressible Navier-stokes Equations Based on the Experimenting Fields Approach. Procedia Computer Science, 2015, 51, 1229-1238.	2.0	4
230	A Compact Numerical Implementation for Solving Stokes Equations Using Matrix-vector Operations. Procedia Computer Science, 2015, 51, 1208-1218.	2.0	8
231	Parallel simulation of wormhole propagation with the Darcy–Brinkman–Forchheimer framework. Computers and Geotechnics, 2015, 69, 564-577.	4.7	53
232	Numerical investigation of nanoparticles transport in anisotropic porous media. Journal of Contaminant Hydrology, 2015, 181, 114-130.	3.3	37
233	Multiphase flow simulation with gravity effect in anisotropic porous media using multipoint flux approximation. Computers and Fluids, 2015, 114, 66-74.	2.5	12
234	Multi-data reservoir history matching for enhanced reservoir forecasting and uncertainty quantification. Journal of Petroleum Science and Engineering, 2015, 128, 160-176.	4.2	24

#	Article	IF	CITATIONS
235	Numerical and dimensional analysis of nanoparticles transport with two-phase flow in porous media. Journal of Petroleum Science and Engineering, 2015, 128, 53-64.	4.2	50
236	Numerical investigation of high level nuclear waste disposal in deep anisotropic geologic repositories. Progress in Nuclear Energy, 2015, 85, 747-755.	2.9	19
237	Investigation of thermal energy transport from an anisotropic central heating element to the adjacent channels: A multipoint flux approximation. Annals of Nuclear Energy, 2015, 76, 100-112.	1.8	9
238	Efficient numerical methods for simulating surface tension of multi-component mixtures with the gradient theory of fluid interfaces. Computer Methods in Applied Mechanics and Engineering, 2015, 292, 92-106.	6.6	33
239	Three-Dimensional, Numerical Investigation of Flow and Heat Transfer in Rectangular Channels Subject to Partial Blockage. Heat Transfer Engineering, 2015, 36, 152-165.	1.9	18
240	Advanced Algebraic Multigrid Solvers for Subsurface Flow Simulation. , 2015, , .		0
241	Numerical investigation of natural convection in two enclosures separated by anisotropic solid wall. International Journal of Numerical Methods for Heat and Fluid Flow, 2014, 24, 1928-1953.	2.8	4
242	Mathematical and Computational Analyses of Flow and Transport Phenomena. Abstract and Applied Analysis, 2014, 2014, 1-2.	0.7	0
243	Mathematical and Numerical Modeling of Flow and Transport 2013. Journal of Applied Mathematics, 2014, 2014, 1-2.	0.9	0
244	Numerical comparison of robustness of some reduction methods in rough grids. Numerical Methods for Partial Differential Equations, 2014, 30, 1484-1506.	3.6	5
245	Analysis of a combined mixed finite element and discontinuous Galerkin method for incompressible two-phase flow in porous media. Mathematical Methods in the Applied Sciences, 2014, 37, 962-982.	2.3	12
246	Constraining a compositional flow model with flowâ€chemical data using an ensembleâ€based Kalman filter. Water Resources Research, 2014, 50, 2444-2467.	4.2	24
247	Two-Phase Fluid Simulation Using a Diffuse Interface Model with Peng-Robinson Equation of State. SIAM Journal of Scientific Computing, 2014, 36, B708-B728.	2.8	69
248	Quasistatic analysis on configuration of two-phase flow in Y-shaped tubes. Computers and Mathematics With Applications, 2014, 68, 1905-1914.	2.7	3
249	An adaptive finite element method for simulating surface tension with the gradient theory of fluid interfaces. Journal of Computational and Applied Mathematics, 2014, 255, 593-604.	2.0	15
250	A numerical method for a model of two-phase flow in a coupled free flow and porous media system. Journal of Computational Physics, 2014, 268, 1-16.	3.8	52
251	A conservative and a hybrid early rejection schemes for accelerating Monte Carlo molecularÂsimulation. Molecular Physics, 2014, 112, 2575-2586.	1.7	7
252	Conformational transitions of a weak polyampholyte. Journal of Chemical Physics, 2014, 141, 134905.	3.0	20

#	Article	IF	CITATIONS
253	EMSE: Synergizing EM and seismic data attributes for enhanced forecasts of reservoirs. Journal of Petroleum Science and Engineering, 2014, 122, 396-410.	4.2	19
254	Optimal convergence of discontinuous Galerkin methods for continuum modeling of supply chain networks. Computers and Mathematics With Applications, 2014, 68, 681-691.	2.7	3
255	Accelerating Monte Carlo molecular simulations by reweighting and reconstructing Markov chains: Extrapolation of canonical ensemble averages and second derivatives to different temperature and density conditions. Journal of Computational Physics, 2014, 270, 70-85.	3.8	6
256	Upwind discontinuous Galerkin methods with mass conservation of both phases for incompressible twoâ€phase flow in porous media. Numerical Methods for Partial Differential Equations, 2014, 30, 1674-1699.	3.6	19
257	Simulation of buoyancy-induced turbulent flow from a hot horizontal jet. Journal of Hydrodynamics, 2014, 26, 104-113.	3.2	12
258	Solving global problem by considering multitude of local problems: Application to fluid flow in anisotropic porous media using the multipoint flux approximation. Journal of Computational and Applied Mathematics, 2014, 267, 117-130.	2.0	26
259	Adaptive moving grid methods for two-phase flow in porous media. Journal of Computational and Applied Mathematics, 2014, 265, 139-150.	2.0	14
260	On Stochastic Error and Computational Efficiency of the Markov Chain Monte Carlo Method. Communications in Computational Physics, 2014, 16, 467-490.	1.7	1
261	A Time Domain Update Method for Reservoir History Matching of Electromagnetic Data. , 2014, , .		7
262	Coupling Two-Phase Fluid Flow with Two-Phase Darcy Flow in Anisotropic Porous Media. Advances in Mechanical Engineering, 2014, 6, 871021.	1.6	5
263	Investigation of Noninvasive Healing of Damaged Piping System using Electro-Magneto-Mechanical Methods. , 2014, , .		1
264	Density-Driven Flow Simulation in Anisotropic Porous Media: Application to CO2 Geological Sequestration. , 2014, , .		4
265	Data Assimilation of InSAR Measurements for Large Scale Reservoirs. , 2014, , .		3
266	A generalized power-law scaling law for a two-phase imbibition in a porous medium. Journal of Petroleum Science and Engineering, 2013, 111, 159-169.	4.2	11
267	Comparison study between the effects of different terms contributing to viscous dissipation in saturated porous media. International Journal of Thermal Sciences, 2013, 64, 195-203.	4.9	14
268	Finite volume approximation of the three-dimensional flow equation in axisymmetric, heterogeneous porous media based on local analytical solution. Journal of Hydrology, 2013, 501, 45-55.	5.4	8
269	An NPT Monte Carlo Molecular Simulation-Based Approach to Investigate Solid-Vapor Equilibrium: Application to Elemental Sulfur-H2S System. Procedia Computer Science, 2013, 18, 2109-2116.	2.0	5
270	On the Stability of the Finite Difference based Lattice Boltzmann Method. Procedia Computer Science, 2013, 18, 2101-2108.	2.0	11

#	Article	IF	CITATIONS
271	An Efficient Method of Reweighting and Reconstructing Monte Carlo Molecular Simulation Data for Extrapolation to Different Temperature and Density Conditions. Procedia Computer Science, 2013, 18, 2147-2156.	2.0	4
272	Numerical and dimensional investigation of two-phase countercurrent imbibition in porous media. Journal of Computational and Applied Mathematics, 2013, 242, 285-296.	2.0	30
273	FRACTAL ANALYSIS OF FRACTURE INCREASING SPONTANEOUS IMBIBITION IN POROUS MEDIA WITH GAS-SATURATED. International Journal of Modern Physics C, 2013, 24, 1350056.	1.7	53
274	A Multipoint Flux Approximation of the Steady-State Heat Conduction Equation in Anisotropic Media. Journal of Heat Transfer, 2013, 135, .	2.1	26
275	Convergence of Discontinuous Galerkin Methods for Incompressible Two-Phase Flow in Heterogeneous Media. SIAM Journal on Numerical Analysis, 2013, 51, 3280-3306.	2.3	22
276	3-D Numerical Investigation of Subsurface Flow in Anisotropic Porous Media using Multipoint Flux Approximation Method. , 2013, , .		5
277	High-Performance Modeling of CO2 Sequestration by Coupling Reservoir Simulation and Molecular Dynamics. , 2013, , .		2
278	Enhanced Oil Recovery by Nanoparticles Injection: Modeling and Simulation. , 2013, , .		17
279	A New Lattice Boltzmann Equation to Simulate Density-Driven Convection of Carbon Dioxide. , 2013, , .		0
280	Fully Implicit Two-phase Reservoir Simulation with the Additive Schwarz Preconditioned Inexact Newton Method. , 2013, , .		8
281	An Efficient Implicit-Pressure/Explicit-Saturation-Method-Based Shifting-Matrix Algorithm To Simulate Two-Phase, Immiscible Flow in Porous Media With Application to CO2 Sequestration in the Subsurface. SPE Journal, 2013, 18, 1092-1101.	3.1	8
282	On Full-Tensor Permeabilities of Porous Media from Numerical Solutions of the Navier-Stokes Equation. Advances in Mechanical Engineering, 2013, 5, 137086.	1.6	3
283	Numerical Simulation of Fluid Flow and Heat Transfer Processes. Advances in Mechanical Engineering, 2013, 5, 497950.	1.6	3
284	Effects of Gravity and Inlet Location on a Two-Phase Countercurrent Imbibition in Porous Media. International Journal of Chemical Engineering, 2012, 2012, 1-7.	2.4	9
285	MHD Mixed Convective Boundary Layer Flow of a Nanofluid through a Porous Medium due to an Exponentially Stretching Sheet. Mathematical Problems in Engineering, 2012, 2012, 1-21.	1.1	52
286	A novel numerical approach for the solution of the problem of two-phase, immiscible flow in porous media: Application to LNAPL and DNAPL. , 2012, , .		1
287	A finite difference, multipoint flux numerical approach to flow in porous media: Numerical examples. , 2012, , .		5
288	Comparative Study on Triangular and Quadrilateral Meshes by a Finite-Volume Method with a Central Difference Scheme. Numerical Heat Transfer, Part B: Fundamentals, 2012, 62, 243-263.	0.9	12

#	Article	IF	CITATIONS
289	CO2 Injection into Oil Reservoir Associated with Structural Deformation. , 2012, , .		0
290	Carbon Dioxide Sequestration: Modeling the Diffusive and Convective Transport under a CO2 Cap. , 2012, , .		5
291	Theoretical Analysis and Semianalytical Solutions for a Turbulent Buoyant Hydrogen-Air Jet. Journal of Applied Mathematics, 2012, 2012, 1-12.	0.9	1
292	Mathematical and Numerical Modeling of Flow and Transport 2012. Journal of Applied Mathematics, 2012, 2012, 1-4.	0.9	0
293	Upscaling of Permeability Field of Fractured Rock System: Numerical Examples. Journal of Applied Mathematics, 2012, 2012, 1-20.	0.9	2
294	Low-Rank Kalman Filtering for Efficient State Estimation of Subsurface Advective Contaminant Transport Models. Journal of Environmental Engineering, ASCE, 2012, 138, 446-457.	1.4	7
295	An Efficient IMPES-Based, Shifting Matrix Algorithm To Simulate Two-Phase, Immiscible Flow in Porous Media With Application to CO2 Sequestration in the Subsurface. , 2012, , .		0
296	Simulation of Coupled Flow and Mechanical Deformation Using IMplicit Pressure-Displacement Explicit Saturation (IMPDES) Scheme. , 2012, , .		1
297	CFD Investigation of Flow and Heat Transfer of Nanofluids in Isoflux Spirally Fluted Tubes. , 2012, , .		0
298	Modeling and Simulation of Nanoparticles Transport in a Two-Phase Flow in Porous Media. , 2012, , .		20
299	Towards a Navier Stokes-Darcy Upscaling Based on Permeability Tensor Computation. Procedia Computer Science, 2012, 9, 717-726.	2.0	3
300	A Conditionally Stable Scheme for a Transient Flow of a Non-Newtonian Fluid Saturating a Porous Medium. Procedia Computer Science, 2012, 9, 651-660.	2.0	11
301	An Equation-Type Approach for the Numerical Solution of the Partial Differential Equations Governing Transport Phenomena in Porous Media. Procedia Computer Science, 2012, 9, 661-669.	2.0	19
302	Calculation of cell face velocity of non-staggered grid system. Applied Mathematics and Mechanics (English Edition), 2012, 33, 991-1000.	3.6	4
303	Numerical modeling of two-phase binary fluid mixing using mixed finite elements. Computational Geosciences, 2012, 16, 1101-1124.	2.4	12
304	Modeling and Simulation of Nanoparticle Transport in Multiphase Flows in Porous Media: CO2 Sequestration. , 2012, , .		12
305	A finite volume method for cylindrical heat conduction problems based on local analytical solution. International Journal of Heat and Mass Transfer, 2012, 55, 5570-5582.	4.8	33
306	A finite element method for the numerical solution of the coupled Cahn–Hilliard and Navier–Stokes system for moving contact line problems. Journal of Computational Physics, 2012, 231, 8083-8099.	3.8	59

#	Article	IF	CITATIONS
307	Matrix-oriented implementation for the numerical solution of the partial differential equations governing flows and transport in porous media. Computers and Fluids, 2012, 68, 38-46.	2.5	25
308	Fast Prediction Method for Steady‣tate Heat Convection. Chemical Engineering and Technology, 2012, 35, 668-678.	1.5	14
309	Horizontal H2–air turbulent buoyant jet resulting from hydrogen leakage. International Journal of Hydrogen Energy, 2012, 37, 3949-3957.	7.1	10
310	DEVELOPMENT OF FLOW AND HEAT TRANSFER IN THE VICINITY OF A VERTICAL PLATE EMBEDDED IN A POROUS MEDIUM WITH VISCOUS DISSIPATION EFFECTS. Special Topics and Reviews in Porous Media, 2012, 3, 169-175.	1.1	2
311	Modeling of Flow and Reactive Transport in IPARS. , 2012, , 42-73.		6
312	Contaminant Flow and Transport Simulation in Cracked Porous Media Using Locally Conservative Schemes. Advances in Applied Mathematics and Mechanics, 2012, 4, 389-421.	1.2	8
313	Compositional modeling of threeâ€phase flow with gravity using higherâ€order finite element methods. Water Resources Research, 2011, 47, .	4.2	83
314	NUMERICAL MODELING OF CONTAMINANT TRANSPORT IN FRACTURED POROUS MEDIA USING MIXED FINITE-ELEMENT AND FINITEVOLUME METHODS. Journal of Porous Media, 2011, 14, 219-242.	1.9	11
315	Mathematical and Numerical Modeling of Flow and Transport. Journal of Applied Mathematics, 2011, 2011, 1-4.	0.9	1
316	Modeling and Simulation of Structural Deformation of Isothermal Subsurface Flow and Carbon Dioxide Injection. , 2011, , .		1
317	Monte Carlo Molecular Simulation of Phase-coexistence for Oil Production and Processing. , 2011, , .		2
318	Superconvergence of mixed finite element approximations to 3-D Maxwell's equations in metamaterials. Journal of Computational Physics, 2011, 230, 8275-8289.	3.8	37
319	Coupling nonlinear Stokes and Darcy flow using mortar finite elements. Applied Numerical Mathematics, 2011, 61, 1198-1222.	2.1	42
320	Non-Darcy Free Convection of Power-Law Fluids Over a Two-Dimensional Body Embedded in a Porous Medium. Transport in Porous Media, 2011, 86, 965-972.	2.6	6
321	On the viscous dissipation modeling of thermal fluid flow in a porous medium. Archive of Applied Mechanics, 2011, 81, 1865-1876.	2.2	8
322	A Finite Difference Scheme for Double-Diffusive Unsteady Free Convection from a Curved Surface to a Saturated Porous Medium with a Non-Newtonian Fluid. Procedia Computer Science, 2011, 4, 948-957.	2.0	4
323	Combined effect of magnetic field and thermal dispersion on a non-darcy mixed convection. Journal of Thermal Science, 2011, 20, 276-282.	1.9	8
324	Numerical Simulation of Pollutant Transport in Fractured Vuggy Porous Karstic Aquifers. Journal of Applied Mathematics, 2011, 2011, 1-41.	0.9	1

#	Article	IF	CITATIONS
325	Effects of Gravity and Inlet/Outlet Location on a Two-Phase Cocurrent Imbibition in Porous Media. Journal of Applied Mathematics, 2011, 2011, 1-18.	0.9	11
326	Radiative Mixed Convection over an Isothermal Cone Embedded in a Porous Medium with Variable Permeability. Journal of Applied Mathematics, 2011, 2011, 1-10.	0.9	5
327	Multiscale Time-Splitting Strategy for Multiscale Multiphysics Processes of Two-Phase Flow in Fractured Media. Journal of Applied Mathematics, 2011, 2011, 1-24.	0.9	9
328	Inoperability inputâ€output modeling (IIM) of disruptions to supply chain networks. Systems Engineering, 2010, 13, 324-339.	2.7	18
329	Analysis of a turbulent buoyant confined jet modeled using realizable k–ɛ model. Heat and Mass Transfer, 2010, 46, 943-960.	2.1	47
330	Non-Boussinesq turbulent buoyant jet of a low-density gas leaks into high-density ambient. Applied Mathematics and Computation, 2010, 217, 3764-3778.	2.2	8
331	A new treatment of capillarity to improve the stability of IMPES two-phase flow formulation. Computers and Fluids, 2010, 39, 1923-1931.	2.5	50
332	Numerical simulation of a buried hot crude oil pipeline during shutdown. Petroleum Science, 2010, 7, 73-82.	4.9	35
333	Numerical simulation of a buried hot crude oil pipeline under normal operation. Applied Thermal Engineering, 2010, 30, 2670-2679.	6.0	49
334	Simulation of Contaminant Transport in Fractured Porous Media on Triangular Meshes. , 2010, , .		0
335	Two-porous phase co-current and counter-current imbibition in a medium. , 2010, , .		0
336	Uniform and non-uniform inlet temperature of a vertical hot water jet injected into a rectangular tank. , 2010, , .		0
337	An optimal-order <mml:math <br="" altimg="si113.gif" xmlns:mml="http://www.w3.org/1998/Math/MathML">overflow="scroll"&gt;<mml:mrow><mml:mrow><mml:mi>L</mml:mi><mml:mrow><mml:mrow><mm estimate for nonsymmetric discontinuous Galerkin methods for a parabolic equation in multiple space dimensions. Computer Methods in Applied Mechanics and Engineering. 2009. 198, 2190-2197</mm </mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:math>	1:mn>2 </td <td>mml:mn&gt;</td>	mml:mn>
338	Coupled Generalized Nonlinear Stokes Flow with Flow through a Porous Medium. SIAM Journal on Numerical Analysis, 2009, 47, 929-952.	2.3	111
339	A Locally Conservative Finite Element Method Based on Piecewise Constant Enrichment of the Continuous Galerkin Method. SIAM Journal of Scientific Computing, 2009, 31, 2528-2548.	2.8	92
340	Compositional Modeling in Three-Phase Flow for CO2 and other Fluid Injections using Higher-Order Finite Element Methods. , 2009, , .		5
341	Modelling and analysis of newsvendor-based trading options in supply chains. International Journal of Services Operations and Informatics, 2009, 4, 258.	0.3	0
342	Continuum modeling of supply chain networks using discontinuous Galerkin methods. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 1204-1218.	6.6	13

#	Article	IF	CITATIONS
343	Coupling Discontinuous Galerkin and Mixed Finite Element Discretizations using Mortar Finite Elements. SIAM Journal on Numerical Analysis, 2008, 46, 949-979.	2.3	45
344	Multiscale Discontinuous Galerkin and Operator-Splitting Methods for Modeling Subsurface Flow and Transport. International Journal for Multiscale Computational Engineering, 2008, 6, 87-101.	1.2	16
345	Discontinuous Galerkin methods for simulating bioreactive transport of viruses in porous media. Advances in Water Resources, 2007, 30, 1696-1710.	3.8	28
346	Local problem-based a posteriori error estimators for discontinuous Galerkin approximations of reactive transport. Computational Geosciences, 2007, 11, 87-101.	2.4	16
347	Multiscale Discontinuous Galerkin Methods for Modeling Flow and Transport in Porous Media. Lecture Notes in Computer Science, 2007, , 890-897.	1.3	1
348	A DYNAMIC, ADAPTIVE, LOCALLY CONSERVATIVE, AND NONCONFORMING SOLUTION STRATEGY FOR TRANSPORT PHENOMENA IN CHEMICAL ENGINEERING. Chemical Engineering Communications, 2006, 193, 1527-1545.	2.6	18
349	Analysis of Discontinuous Galerkin Methods for Multicomponent Reactive Transport Problems. Computers and Mathematics With Applications, 2006, 52, 637-650.	2.7	25
350	Projections of velocity data for the compatibility with transport. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 653-673.	6.6	49
351	A posteriori error estimation and dynamic adaptivity for symmetric discontinuous Galerkin approximations of reactive transport problems. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 632-652.	6.6	32
352	Anisotropic and dynamic mesh adaptation for discontinuous Galerkin methods applied to reactive transport. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 3382-3405.	6.6	51
353	Streamline Tracing on Unstructured Grids. , 2005, , .		5
354	Nonlinear behaviors of capillary formation in a deterministic angiogenesis model. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, e2237-e2246.	1.1	16
355	A deterministic model of growth factor-induced angiogenesis. Bulletin of Mathematical Biology, 2005, 67, 313-337.	1.9	100
356	Discontinuous Galerkin methods for coupled flow and reactive transport problems. Applied Numerical Mathematics, 2005, 52, 273-298.	2.1	113
357			

#	Article	IF	CITATIONS
361	Discontinuous Galerkin Method for Modeling Flow and Reactive Transport in Porous Media. Lecture Notes in Applied and Computational Mechanics, 2003, , 37-56.	2.2	10
362	A Combined Mixed Finite Element and Discontinuous Galerkin Method for Miscible Displacement Problem in Porous Media. , 2002, , 323-351.		40
363	Solute Transport With Chemical Reaction in Singleand Multi-Phase Flow in Porous Media. , 0, , .		8