

Kamy Sepehrnoori

List of Publications by Year in descending order

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2879
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#	ARTICLE	IF	CITATIONS
1	Impact of Complex Fracture Networks on Rate Transient Behavior of Wells in Unconventional Reservoirs Based on Embedded Discrete Fracture Model. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	1.4	8
2	Investigation of Parent-Well Production Induced Stress Interference in Multilayer Unconventional Reservoirs. Rock Mechanics and Rock Engineering, 2022, 55, 2965-2986.	2.6	6
3	Multi-Phase Rate Transient Behaviors of the Multi-Fractured Horizontal Well With Complex Fracture Networks. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	1.4	8
4	Evaluating Gas-Oil Ratio Behavior of Unconventional Wells in the Uinta Basin. Geofluids, 2022, 2022, 1-12.	0.3	0
5	Carbon Dioxide Storage in Deltaic Saline Aquifers: Invasion Percolation and Compositional Simulation. SPE Reservoir Evaluation and Engineering, 2021, 24, 462-474.	1.1	2
6	Shale-gas well in Longmaxi Shale with bi-wing hydraulic fractures. , 2021, , 65-87.		0
7	Investigation of different production performances in multiple shale-gas wells. , 2021, , 229-264.		0
8	The Influence of Development Target Depletion on Stress Evolution and Infill Drilling of Upside Target in the Permian Basin. SPE Reservoir Evaluation and Engineering, 2021, , 1-20.	1.1	9
9	Introduction and literature review. , 2021, , 1-15.		1
10	The influences of stress level, temperature, and water content on the fitted fractional orders of geomaterials. Mechanics of Time-Dependent Materials, 2020, 24, 221-232.	2.3	14
11	A Novel Optimization Workflow Coupling Statistics-Based Methods to Determine Optimal Well Spacing and Economics in Shale Gas Reservoir with Complex Natural Fractures. Energies, 2020, 13, 3965.	1.6	5
12	Estimating the Size and Orientation of Hydraulic Fractures using Microseismic Events. , 2020, , .		2
13	Assessment of Complex Fracture Networks Effect on Rate Transient Behavior Using Embedded Discrete Fracture Model. , 2020, , .		0
14	The Influence of Development Target Depletion on Stress Evolution and Well Completion of Upside Target in the Permian Basin. , 2020, , .		3
15	Numerical approaches for modeling complex fractures. Developments in Petroleum Science, 2020, 68, 31-42.	0.2	2
16	Basic EDFM approach using Cartesian grid. Developments in Petroleum Science, 2020, 68, 43-97.	0.2	1
17	An extension of the embedded discrete fracture model for modeling dynamic behaviors of complex fractures. Developments in Petroleum Science, 2020, , 99-143.	0.2	0
18	Field-scale applications of the embedded discrete fracture model. Developments in Petroleum Science, 2020, 68, 145-190.	0.2	2

#	ARTICLE	IF	CITATIONS
19	Water Intrusion Characterization in Naturally Fractured Gas Reservoir Based on Spatial DFN Connectivity Analysis. <i>Energies</i> , 2020, 13, 4235.	1.6	2
20	Multi-Phase Rate Transient Analysis Considering Complex Fracture Networks. , 2020, , .		4
21	Investigation of Vertical Fracture Complexity Induced Stress Interference in Multilayer Shale Gas Reservoirs with Complex Natural Fractures. , 2020, , .		3
22	Investigation of different production performances in shale gas wells using assisted history matching: Hydraulic fractures and reservoir characterization from production data. <i>Fuel</i> , 2020, 267, 117097.	3.4	26
23	Optimization of Huff-n-Puff Field Gas Enhanced Oil Recovery through a Vertical Well with Multiple Fractures in a Low-Permeability Shale "Sand" Carbonate Reservoir. <i>Energy & Fuels</i> , 2020, 34, 13822-13836.	2.5	7
24	Evaluation of Polymer Flooding in a Highly Stratified Heterogeneous Reservoir. A Field Case Study. <i>WSEAS Transactions on Environment and Development</i> , 2020, 16, 23-33.	0.3	3
25	A Comprehensive Model for Investigation of Carbon Dioxide Enhanced Oil Recovery With Nanopore Confinement in the Bakken Tight Oil Reservoir. <i>SPE Reservoir Evaluation and Engineering</i> , 2019, 22, 122-136.	1.1	39
26	Development of an Embedded Discrete Fracture Model for Field-Scale Reservoir Simulation With Complex Corner-Point Grids. <i>SPE Journal</i> , 2019, 24, 1552-1575.	1.7	55
27	Streamline modeling of fluid transport in naturally fractured porous medium. <i>Petroleum Exploration and Development</i> , 2019, 46, 130-137.	3.0	5
28	A practical and efficient iterative history matching workflow for shale gas well coupling multiple objective functions, multiple proxy-based MCMC and EDFM. <i>Journal of Petroleum Science and Engineering</i> , 2019, 176, 594-611.	2.1	25
29	Key problems and solutions in supercritical CO ₂ fracturing technology. <i>Frontiers in Energy</i> , 2019, 13, 667-672.	1.2	18
30	Modeling Naturally and Hydraulically Fractured Reservoirs with Artificial Intelligence and Assisted History Matching Methods Using Physics-Based Simulators. , 2019, , .		9
31	Modeling Dynamic Behaviors of Complex Fractures in Conventional Reservoir Simulators. <i>SPE Reservoir Evaluation and Engineering</i> , 2019, 22, 1110-1130.	1.1	36
32	Compositional Simulation of CO ₂ Huff & Puff in Eagle Ford Tight Oil Reservoirs With CO ₂ Molecular Diffusion, Nanopore Confinement, and Complex Natural Fractures. <i>SPE Reservoir Evaluation and Engineering</i> , 2019, 22, 492-508.	1.1	59
33	An Efficient Computational Scheme for Two-Phase Steam Condensation in the Presence of CO ₂ for Wellbore and Long-Distance Flow. <i>ChemEngineering</i> , 2019, 3, 4.	1.0	4
34	Embedded discrete fracture modeling for compositional reservoir simulation using corner-point grids. <i>Journal of Petroleum Science and Engineering</i> , 2019, 177, 41-52.	2.1	13
35	CO ₂ Storage in Deltaic Saline Aquifers: Invasion Percolation and Compositional Simulation. , 2019, , .		1
36	Estimation and Analysis of Carbon Dioxide Friction Loss in Wellbore During Liquid/Supercritical Carbon Dioxide Fracturing. <i>SPE Production and Operations</i> , 2019, 34, 244-259.	0.4	4

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37	A Semianalytical Method for Modeling Two-Phase Flow in Coalbed-Methane Reservoirs With Complex Fracture Networks. SPE Reservoir Evaluation and Engineering, 2018, 21, 719-732.	1.1	12
38	Compositional Simulation of CO ₂ Huff-n-Puff in Eagle Ford Tight Oil Reservoirs with CO ₂ Molecular Diffusion, Nanopore Confinement and Complex Natural Fractures. , 2018, , .		24
39	A Numerical Model for Simulating Pressure Response of Well Interference and Well Performance in Tight Oil Reservoirs With Complex Fracture Geometries Using the Fast Embedded Discrete Fracture Model Method. SPE Reservoir Evaluation and Engineering, 2018, 21, 489-502.	1.1	69
40	Numerical study of complex fracture geometry effect on two-phase performance of shale-gas wells using the fast EDFM method. Journal of Petroleum Science and Engineering, 2018, 164, 603-622.	2.1	41
41	Application of proxy-based MCMC and EDFM to history match a shale gas condensate well. Journal of Petroleum Science and Engineering, 2018, 167, 486-497.	2.1	26
42	An improved fracture height containment method: artificial gel-barrier technology and its simulation. Environmental Earth Sciences, 2018, 77, 1.	1.3	6
43	Application of proxy-based MCMC and EDFM to history match a Vaca Muerta shale oil well. Fuel, 2018, 220, 490-502.	3.4	50
44	Simulation of shale gas transport and production with complex fractures using embedded discrete fracture model. AIChE Journal, 2018, 64, 2251-2264.	1.8	60
45	Comprehensive Study of Gas Cycling in the Bakken Shale. , 2018, , .		13
46	An Automatic History-Matching Workflow for Unconventional Reservoirs Coupling MCMC and Non-Intrusive EDFM Methods. , 2018, , .		11
47	A Fast EDFM Method for Production Simulation of Complex Fractures in Naturally Fractured Reservoirs. , 2018, , .		5
48	Modeling Fault Reactivation Using Embedded Discrete Fracture Method. , 2018, , .		4
49	Production Forecasting for Shale Gas Reservoirs with Nanopores and Complex Fracture Geometries Using An Innovative Non-Intrusive EDFM Method. , 2018, , .		14
50	Using Embedded Discrete Fracture Model (EDFM) in numerical simulation of complex hydraulic fracture networks calibrated by microseismic monitoring data. Journal of Natural Gas Science and Engineering, 2018, 55, 495-507.	2.1	50
51	Modeling Gas Adsorption in Marcellus Shale Using Langmuir and BET Isotherms. , 2018, , 129-154.		1
52	Embedded Discrete Fracture Model (EDFM) for Complex Fracture Geometry. , 2018, , 155-205.		3
53	CO ₂ Injection for Enhanced Oil Recovery in Tight Oil Reservoirs. , 2018, , 333-376.		0
54	Phase Behavior Modeling by Considering Nanopore Confinement. , 2018, , 377-407.		0

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55	Simulation study of factors affecting CO ₂ Huff-n-Puff process in tight oil reservoirs. Journal of Petroleum Science and Engineering, 2018, 163, 264-269.	2.1	70
56	Modeling preformed particle gel surfactant combined flooding for enhanced oil recovery after polymer flooding. Fuel, 2017, 194, 42-49.	3.4	62
57	Impact of Well Interference on Shale Oil Production Performance: A Numerical Model for Analyzing Pressure Response of Fracture Hits with Complex Geometries. , 2017, , .		31
58	Capillary pressure effect on phase behavior of CO ₂ /hydrocarbons in unconventional reservoirs. Fuel, 2017, 197, 575-582.	3.4	55
59	Analytical analysis of gas diffusion into non-circular pores of shale organic matter. Journal of Fluid Mechanics, 2017, 819, 656-677.	1.4	26
60	A novel approach to quantify reservoir pressure along the horizontal section and to optimize multistage treatments and spacing between hydraulic fractures. Journal of Petroleum Science and Engineering, 2017, 149, 579-590.	2.1	12
61	Investigation of nanopore confinement on fluid flow in tight reservoirs. Journal of Petroleum Science and Engineering, 2017, 150, 265-271.	2.1	49
62	Performance evaluation of CO ₂ Huff-n-Puff and continuous CO ₂ injection in tight oil reservoirs. Energy, 2017, 134, 181-192.	4.5	119
63	Simulation of deformable preformed particle gel propagation in porous media. AIChE Journal, 2017, 63, 4628-4641.	1.8	19
64	A Comprehensive Numerical Model for Simulating Fluid Transport in Nanopores. Scientific Reports, 2017, 7, 40507.	1.6	18
65	Simulation of planar hydraulic fractures with variable conductivity using the embedded discrete fracture model. Journal of Petroleum Science and Engineering, 2017, 153, 212-222.	2.1	14
66	New laboratory study and transport model implementation of microgels for conformance and mobility control purposes. Fuel, 2017, 192, 158-168.	3.4	30
67	Effect of capillary pressure and salinity on CO ₂ solubility in brine aquifers. International Journal of Greenhouse Gas Control, 2017, 57, 26-33.	2.3	19
68	A Semianalytical Approach To Model Two-Phase Flowback of Shale-Gas Wells With Complex-Fracture-Network Geometries. SPE Journal, 2017, 22, 1808-1833.	1.7	54
69	A Comprehensive Model for Investigation of CO ₂ -EOR with Nanopore Confinement in the Bakken Tight Oil Reservoir. , 2017, , .		18
70	Hydraulic Fracturing Fluid Effect on Clay Swelling and Water Blockage in Stimulated Naturally Fractured Reservoirs. , 2017, , .		2
71	Optimization of Surfactant Flooding in Tight Oil Reservoirs. , 2017, , .		12
72	Comparison of LSWI/EWI Effect on Sandstone and Carbonate Rocks. , 2017, , 133-141.		1

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73	A Semianalytical Method for Modeling Two-phase Flow in Coalbed Methane Reservoirs with Complex Fracture Networks. , 2016, , .		4
74	Modeling Gas Adsorption in Marcellus Shale With Langmuir and BET Isotherms. SPE Journal, 2016, 21, 589-600.	1.7	155
75	Methodology for geomechanically controlled transmissibility through active natural fractures in reservoir simulation. Journal of Petroleum Science and Engineering, 2016, 147, 7-14.	2.1	16
76	An Innovative Approach to Model Two-Phase Flowback of Shale Gas Wells with Complex Fracture Networks. , 2016, , .		13
77	XFEM-Based CZM for the Simulation of 3D Multiple-Cluster Hydraulic Fracturing in Quasi-Brittle Shale Formations. Rock Mechanics and Rock Engineering, 2016, 49, 4731-4748.	2.6	98
78	A chemical EOR benchmark study of different reservoir simulators. Computers and Geosciences, 2016, 94, 96-109.	2.0	48
79	A Comprehensive Model for Real Gas Transport in Shale Formations with Complex Non-planar Fracture Networks. Scientific Reports, 2016, 6, 36673.	1.6	42
80	Simulation Study of CO ₂ -EOR in Tight Oil Reservoirs with Complex Fracture Geometries. Scientific Reports, 2016, 6, 33445.	1.6	124
81	Capillary Pressure Effect on Hydrocarbon Phase Behavior in Unconventional Reservoirs. , 2016, , .		19
82	A comprehensive review of low salinity/engineered water injections and their applications in sandstone and carbonate rocks. Journal of Petroleum Science and Engineering, 2016, 139, 137-161.	2.1	269
83	Single-Well Chemical Tracer Modeling of Low Salinity Water Injection in Carbonates. , 2015, , .		6
84	Geochemical Interpretation of Low-Salinity-Water Injection in Carbonate Oil Reservoirs. SPE Journal, 2015, 20, 1212-1226.	1.7	49
85	Development of a Four-Phase Chemical-Gas Model in an IMPEC Reservoir Simulator. , 2015, , .		19
86	A Robust Geochemical Simulator to Model Improved Oil Recovery Methods. , 2015, , .		12
87	A 3D Total Variation Diminishing Scheme for Compositional Reservoir Simulation Using the Element-Based Finite-Volume Method. Numerical Heat Transfer; Part A: Applications, 2015, 67, 839-856.	1.2	15
88	Numerical study of the effect of uneven proppant distribution between multiple fractures on shale gas well performance. Fuel, 2015, 142, 189-198.	3.4	103
89	Low Salinity Surfactant Flooding – A Multi-Mechanistic Enhanced Oil Recovery Method. , 2015, , .		10
90	CO ₂ injection for enhanced oil recovery in Bakken tight oil reservoirs. Fuel, 2015, 159, 354-363.	3.4	390

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91	Coupling IPhreeqc with UTCHEM to model reactive flow and transport. Computers and Geosciences, 2015, 82, 152-169.	2.0	48
92	Mechanistic Modeling of Oil Recovery Due to Low Salinity Water Injection in Oil Reservoirs. , 2015, , .		9
93	A laboratory and simulation study of preformed particle gels for water conformance control. Fuel, 2015, 140, 502-513.	3.4	152
94	Simulation Study of CO2 Huff-n-Puff Process in Bakken Tight Oil Reservoirs. , 2014, , .		147
95	Geochemical Investigation of the Combined Effect of Injecting Low Salinity Water and Carbon Dioxide on Carbonate Reservoirs. Energy Procedia, 2014, 63, 7663-7676.	1.8	14
96	An Efficient Reservoir-Simulation Approach To Design and Optimize Unconventional Gas Production. Journal of Canadian Petroleum Technology, 2014, 53, 109-121.	2.3	59
97	A critical review on use of polymer microgels for conformance control purposes. Journal of Petroleum Science and Engineering, 2014, 122, 741-753.	2.1	139
98	Simulation of gas desorption and geomechanics effects for unconventional gas reservoirs. Fuel, 2014, 116, 455-464.	3.4	182
99	Coupled Carbon Dioxide Sequestration and Energy Production From Geopressured/Geothermal Aquifers. SPE Journal, 2014, 19, 239-248.	1.7	16
100	Mechanisms behind low salinity water injection in carbonate reservoirs. Fuel, 2014, 121, 11-19.	3.4	110
101	An Improved Method for Estimating Volumetric Sweep Efficiency of Low Salinity Water Injection. , 2014, , .		2
102	Preformed Particle Gel Extrusion through Open Conduits during Conformance Control Treatments. , 2014, , .		15
103	Optimization of the Low Salinity Water Injection Process in Carbonate Reservoirs. , 2014, , .		15
104	Development of an Efficient Embedded Discrete Fracture Model for 3D Compositional Reservoir Simulation in Fractured Reservoirs. SPE Journal, 2014, 19, 289-303.	1.7	371
105	A Novel Method to Model Low Salinity Water Injection in Carbonate Oil Reservoirs. , 2014, , .		23
106	Coupled Geochemical-Based Modeling of Low Salinity Waterflooding. , 2014, , .		29
107	New Insights into the Low Salinity Water Injection Effect on Oil Recovery from Carbonate Reservoirs. , 2014, , .		9
108	Mysteries behind the Low Salinity Water Injection Technique. Journal of Petroleum Engineering, 2014, 2014, 1-11.	0.6	19

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109	Investigation of Several Interpolation Functions for Unstructured Meshes in Conjunction with Compositional Reservoir Simulation. Numerical Heat Transfer; Part A: Applications, 2013, 64, 974-993.	1.2	21
110	Estimation of Local Capillary Trapping Capacity from Geologic Models. Energy Procedia, 2013, 37, 5501-5510.	1.8	7
111	Well Screen and Optimal Time of Refracturing: A Barnett Shale Well. Journal of Petroleum Engineering, 2013, 2013, 1-10.	0.6	20
112	A Novel Mechanistic Approach for Modeling Low Salinity Water Injection. , 2013, , .		27
113	Finite-Difference Approximation for Fluid-Flow Simulation and Calculation of Permeability in Porous Media. Transport in Porous Media, 2012, 94, 775-793.	1.2	74
114	Viscosity Model of Preformed Microgels for Conformance and Mobility Control. Energy & Fuels, 2011, 25, 5033-5037.	2.5	34
115	Transport Model Implementation and Simulation of Microgel Processes for Conformance and Mobility Control Purposes. Energy & Fuels, 2011, 25, 5063-5075.	2.5	28
116	Effect of upscaling heterogeneous domain on CO2 trapping mechanisms. Energy Procedia, 2011, 4, 5066-5073.	1.8	19
117	CO2 Leakage from Heterogeneous Storage Formations. , 2010, , .		3
118	New Trapping Mechanism in Carbon Sequestration. Transport in Porous Media, 2010, 82, 3-17.	1.2	243
119	Effect of capillary heterogeneity on buoyant plumes: A new local trapping mechanism. Energy Procedia, 2009, 1, 3299-3306.	1.8	46
120	Upscaling Local CO2 Trapping During Buoyancy Driven Flow. , 2009, , .		2
121	Coupling Equation-of-State Compositional and Surfactant Models in a Fully Implicit Parallel Reservoir Simulator Using the Equivalent-Alkane-Carbon-Number Concept. SPE Journal, 2009, 14, 302-310.	1.7	20
122	Effect of Heterogeneous Capillary Pressure on Buoyancy-Driven CO2 Migration. , 2008, , .		28
123	Numerical Simulation of the Storage of Pure CO2 and CO2-H2S Gas Mixtures in Deep Saline Aquifers. , 2005, , .		44
124	Reservoir Simulation of CO2 Storage in Aquifers. SPE Journal, 2005, 10, 336-348.	1.7	308
125	Partition coefficients for alcohol tracers between nonaqueous-phase liquids and water from UNIFAC-solubility method. Advances in Water Resources, 1998, 21, 171-181.	1.7	24
126	Partitioning Tracer Test for Detection, Estimation, and Remediation Performance Assessment of Subsurface Nonaqueous Phase Liquids. Water Resources Research, 1995, 31, 1201-1211.	1.7	242

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127	Simulation of surfactant-enhanced aquifer remediation. <i>Water Resources Research</i> , 1994, 30, 2959-2977.	1.7	104
128	A Single-Well Tracer Test To Estimate Wettability. , 1992, , .		11
129	Sequential Implicit Approach for Compositional Reservoir Simulation in Conjunction with Unstructured Grids. , 0, , .		0
130	A Natural Variable Fully Implicit Compositional Reservoir Simulation. , 0, , .		1
131	A Pressure Traverse Algorithm for Multilateral Oil and Gas Wells. , 0, , .		0
132	An Adaptive approach for compositional reservoir simulation in conjunction with unstructured grids. , 0, , .		0
133	Enhancement of Simulation CPU Time of Reactive-Transport Flow in Porous Media: Adaptive Tolerance and Mixing Zone-Based Approach. <i>Transport in Porous Media</i> , 0, , .	1.2	1