

Ahmad S Abushaikha

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

721
citations

840119

11
h-index

839053

18
g-index

30
all docs

30
docs citations

30
times ranked

477
citing authors

#	ARTICLE	IF	CITATIONS
1	The use of surfactants in enhanced oil recovery: A review of recent advances. Energy Reports, 2020, 6, 3150-3178.	2.5	246
2	Ion exchange homogeneous surface diffusion modelling by binary site resin for the removal of nickel ions from wastewater in fixed beds. Chemical Engineering Journal, 2019, 358, 1-10.	6.6	108
3	A review of recent developments in CO2 mobility control in enhanced oil recovery. Petroleum, 2022, 8, 291-317.	1.3	64
4	Matrix-Fracture Transfer Function in Dual-Medium Flow Simulation: Review, Comparison, and Validation. , 2008, , .		52
5	Interface control volume finite element method for modelling multi-phase fluid flow in highly heterogeneous and fractured reservoirs. Journal of Computational Physics, 2015, 298, 41-61.	1.9	42
6	Fully implicit mixed-hybrid finite-element discretization for general purpose subsurface reservoir simulation. Journal of Computational Physics, 2017, 346, 514-538.	1.9	36
7	A fully implicit mimetic finite difference scheme for general purpose subsurface reservoir simulation with full tensor permeability. Journal of Computational Physics, 2020, 406, 109194.	1.9	30
8	A comprehensive review of the chemical-based conformance control methods in oil reservoirs. Journal of Petroleum Exploration and Production, 2021, 11, 2233-2257.	1.2	26
9	An implementation of mimetic finite difference method for fractured reservoirs using a fully implicit approach and discrete fracture models. Journal of Computational Physics, 2021, 446, 110665.	1.9	16
10	Reactive transport in porous media: a review of recent mathematical efforts in modeling geochemical reactions in petroleum subsurface reservoirs. SN Applied Sciences, 2021, 3, 1.	1.5	15
11	A novel block non-symmetric preconditioner for mixed-hybrid finite-element-based Darcy flow simulations. Journal of Computational Physics, 2021, 442, 110513.	1.9	12
12	A comprehensive thermodynamic analysis of an integrated solar enhanced oil recovery system for applications in heavy oil fields. Energy Conversion and Management, 2022, 253, 115161.	4.4	11
13	Fully Implicit Reservoir Simulation Using Mimetic Finite Difference Method in Fractured Carbonate Reservoirs. , 2019, , .		10
14	A fully-implicit parallel framework for complex reservoir simulation with mimetic finite difference discretization and operator-based linearization. Computational Geosciences, 2022, 26, 915-931.	1.2	9
15	An Efficient Mimetic Finite Difference Method For Multiphase Flow In Fractured Reservoirs. , 2019, , .		7
16	Parallel Framework for Complex Reservoir Simulation with Advanced Discretization and Linearization Schemes. , 2020, , .		5
17	Comparing Advanced Discretization Methods for Complex Hydrocarbon Reservoirs. , 2019, , .		4
18	An Investigation of the Performance of the Mimetic Finite Difference Scheme for Modelling Fluid Flow in Anisotropic Hydrocarbon Reservoirs. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
19	On the Performance of the Node Control Volume Finite Element Method for Modeling Multi-phase Fluid Flow in Heterogeneous Porous Media. <i>Transport in Porous Media</i> , 2020, 135, 409-429.	1.2	4
20	Velocity dependent up-winding scheme for node control volume finite element method for fluid flow in porous media. <i>Scientific Reports</i> , 2020, 10, 4427.	1.6	4
21	Modeling the effects of capillary pressure with the presence of full tensor permeability and discrete fracture models using the mimetic finite difference method. <i>Transport in Porous Media</i> , 2021, 137, 739-767.	1.2	4
22	Linear Solvers for Reservoir Simulation Problems: An Overview and Recent Developments. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 4341-4378.	6.0	4
23	A block preconditioner for two-phase flow in porous media by mixed hybrid finite elements. <i>Computational and Mathematical Methods</i> , 2021, 3, e1207.	0.3	3
24	A Review of Numerical Modelling Techniques for Reactive Transport in Subsurface Reservoirs and Application in Mimetic Finite Difference Discretization Schemes. , 2019, , .		2
25	Multiphase transient analysis of horizontal wells during CO ₂ -EOR. <i>Journal of Petroleum Science and Engineering</i> , 2022, 210, 109895.	2.1	2
26	Fully Implicit Mixed Hybrid Finite-Element Formulation for General-Purpose Compositional Reservoir Simulation. , 2017, , .		1
27	Hybrid Mixed Mimetic Discretization Scheme for Reservoir Simulation. , 2019, , .		0
28	Modeling Condensate Banking Mitigation by Enhanced Gas Recovery Methods. , 2021, , .		0
29	Buckleyâ€“Leverett Theory for a Forchheimerâ€“Darcy Multiphase Flow Model with Phase Coupling. <i>Mathematical and Computational Applications</i> , 2021, 26, 60.	0.7	0
30	Coupling of Rigorous Multiphase Flash with Advanced Linearization Schemes for Accurate Compositional Simulation. , 2021, , .		0