

# 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	A review of recent developments in CO <sub>2</sub> mobility control in enhanced oil recovery. <i>Petroleum</i> , 2022, 8, 291-317.	1.3	64
2	A fully-implicit parallel framework for complex reservoir simulation with mimetic finite difference discretization and operator-based linearization. <i>Computational Geosciences</i> , 2022, 26, 915-931.	1.2	9
3	Multiphase transient analysis of horizontal wells during CO <sub>2</sub> -EOR. <i>Journal of Petroleum Science and Engineering</i> , 2022, 210, 109895.	2.1	2
4	A comprehensive thermodynamic analysis of an integrated solar enhanced oil recovery system for applications in heavy oil fields. <i>Energy Conversion and Management</i> , 2022, 253, 115161.	4.4	11
5	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
6	Modeling Condensate Banking Mitigation by Enhanced Gas Recovery Methods. , 2021, , .		0
7	Reactive transport in porous media: a review of recent mathematical efforts in modeling geochemical reactions in petroleum subsurface reservoirs. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	15
8	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
9	A comprehensive review of the chemical-based conformance control methods in oil reservoirs. <i>Journal of Petroleum Exploration and Production</i> , 2021, 11, 2233-2257.	1.2	26
10	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
11	A novel block non-symmetric preconditioner for mixed-hybrid finite-element-based Darcy flow simulations. <i>Journal of Computational Physics</i> , 2021, 442, 110513.	1.9	12
12	An implementation of mimetic finite difference method for fractured reservoirs using a fully implicit approach and discrete fracture models. <i>Journal of Computational Physics</i> , 2021, 446, 110665.	1.9	16
13	Coupling of Rigorous Multiphase Flash with Advanced Linearization Schemes for Accurate Compositional Simulation. , 2021, , .		0
14	A block preconditioner for twoâ€“phase flow in porous media by mixed hybrid finite elements. <i>Computational and Mathematical Methods</i> , 2021, 3, e1207.	0.3	3
15	A fully implicit mimetic finite difference scheme for general purpose subsurface reservoir simulation with full tensor permeability. <i>Journal of Computational Physics</i> , 2020, 406, 109194.	1.9	30
16	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
17	The use of surfactants in enhanced oil recovery: A review of recent advances. <i>Energy Reports</i> , 2020, 6, 3150-3178.	2.5	246
18	Parallel Framework for Complex Reservoir Simulation with Advanced Discretization and Linearization Schemes. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
19	Velocity dependent up-winding scheme for node control volume finite element method for fluid flow in porous media. Scientific Reports, 2020, 10, 4427.	1.6	4
20	A Review of Numerical Modelling Techniques for Reactive Transport in Subsurface Reservoirs and Application in Mimetic Finite Difference Discretization Schemes. , 2019, , .		2
21	Fully Implicit Reservoir Simulation Using Mimetic Finite Difference Method in Fractured Carbonate Reservoirs. , 2019, , .		10
22	Comparing Advanced Discretization Methods for Complex Hydrocarbon Reservoirs. , 2019, , .		4
23	An Efficient Mimetic Finite Difference Method For Multiphase Flow In Fractured Reservoirs. , 2019, , .		7
24	Hybrid Mixed Mimetic Discretization Scheme for Reservoir Simulation. , 2019, , .		0
25	An Investigation of the Performance of the Mimetic Finite Difference Scheme for Modelling Fluid Flow in Anisotropic Hydrocarbon Reservoirs. , 2019, , .		4
26	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
27	Fully Implicit Mixed Hybrid Finite-Element Formulation for General-Purpose Compositional Reservoir Simulation. , 2017, , .		1
28	Fully implicit mixed-hybrid finite-element discretization for general purpose subsurface reservoir simulation. Journal of Computational Physics, 2017, 346, 514-538.	1.9	36
29	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
30	Matrix-Fracture Transfer Function in Dual-Medium Flow Simulation: Review, Comparison, and Validation. , 2008, , .		52