Yu-Shu Wu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2888922/publications.pdf

Version: 2024-02-01

59	2,500	236912	254170
papers	citations	25 h-index	43 g-index

60	60	60	1809
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Theoretical analysis and semi-analytical formulation for capturing the coupled thermal-hydraulic-mechanical process using the stress formulation. Journal of Petroleum Science and Engineering, 2022, 208, 109752.	4.2	6
2	Influence of long-term stored oil on wettability and its recovery in depleted petroleum reservoirs. Energy Reports, 2022, 8, 2085-2099.	5.1	5
3	Coupled Geomechanics and Flow Modeling of Fractured Reservoirs considering Matrix Permeability Anisotropy. Geofluids, 2022, 2022, 1-25.	0.7	1
4	A New Projection-Based Integrally Embedded Discrete Fracture Model and Its Application in Coupled Flow and Geomechanical Simulation for Fractured Reservoirs. Geofluids, 2022, 2022, 1-22.	0.7	1
5	Simulating two-phase flow and geomechanical deformation in fractured karst reservoirs based on a coupled hydro-mechanical model. International Journal of Rock Mechanics and Minings Sciences, 2021, 137, 104543.	5.8	17
6	Thermodynamically consistent Darcyâ€“Brinkmanâ€“Forchheimer framework in matrix acidization. Oil and Gas Science and Technology, 2021, 76, 8.	1.4	6
7	Evaluations of the feasibility of oil storage in depleted petroleum reservoirs through experimental modelling studies. Fuel, 2021, 294, 120316.	6.4	6
8	Nanopore Confinement Effect on the Phase Behavior of CO2/Hydrocarbons in Tight Oil Reservoirs considering Capillary Pressure, Fluid-Wall Interaction, and Molecule Adsorption. Geofluids, 2021, 2021, 1-18.	0.7	4
9	Theoretical Analysis and Semi-Analytical Formulation for Efficient Thermal-Hydraulic-Mechanical Reservoir Simulation. , 2021, , .		1
10	A decoupled scheme to solve the mass and momentum conservation equations of the improved Darcyâ€“Brinkmanâ€“Forchheimer framework in matrix acidization. AIP Advances, 2021, 11, .	1.3	1
11	Coupled numerical approach combining X-FEM and the embedded discrete fracture method for the fluid-driven fracture propagation process in porous media. International Journal of Rock Mechanics and Minings Sciences, 2020, 130, 104315.	5.8	19
12	An Integrally Embedded Discrete Fracture Model for Flow Simulation in Anisotropic Formations. Energies, 2020, 13, 3070.	3.1	6
13	An Efficient Hybrid Model for 3D Complex Fractured Vuggy Reservoir Simulation. SPE Journal, 2020, 25, 907-924.	3.1	31
14	Feasibility study of gas injection in low permeability reservoirs of Changqing oilfield. Fuel, 2020, 274, 117831.	6.4	22
15	Robust implementations of the 3D-EDFM algorithm for reservoir simulation with complicated hydraulic fractures. Journal of Petroleum Science and Engineering, 2019, 181, 106229.	4.2	21
16	A compositional model for gas injection IOR/EOR in tight oil reservoirs under coupled nanopore confinement and geomechanics effects. Journal of Natural Gas Science and Engineering, 2019, 71, 102973.	4.4	30
17	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
18	Application of Algebraic Smoothing Aggregation Two Level Preconditioner to Multiphysical Fluid Flow Simulations in Porous Media. , 2019, , .		2

#	Article	IF	Citations
19	Development of a Coupled Reservoirâ€“Geomechanical Simulator for the Prediction of Caprock Fracturing and Fault Reactivation During CO 2 Sequestration in Deep Saline Aquifers. , 2018, , 349-392.		0
20	Commemorating Dr. Gudmundur â€œBoâ€•Bodvarsson (1951â€“2006), a Leader of the Deep Unsaturated Flow and Transport Investigations. Water (Switzerland), 2018, 10, 18.	2.7	13
21	A non-empirical gas slippage model for low to moderate Knudsen numbers. Physics of Fluids, 2017, 29, 012004.	4.0	24
22	Advances in improved/enhanced oil recovery technologies for tight and shale reservoirs. Fuel, 2017, 210, 425-445.	6.4	251
23	Flow-Governing Equations andÂMathematical Models. , 2016, , 29-47.		0
24	Multiphase Flow in Fractured Porous Media. , 2016, , 207-250.		1
25	Multiphase Fluid and Heat Flow Coupled with Geomechanics. , 2016, , 265-293.		1
26	Non-Darcy Flow of ImmiscibleÂFluids. , 2016, , 167-206.		3
27	A novel computational framework for thermalâ€•hydrologicalâ€•mechanicalâ€•chemical processes of CO₂ geological sequestration into a layered saline aquifer and a naturally fractured enhanced geothermal system. , 2016, 6, 370-400.		23
28	Pressure transient analysis of a well penetrating a filled cavity in naturally fractured carbonate reservoirs. Journal of Petroleum Science and Engineering, 2016, 145, 392-403.	4.2	32
29	A semi-analytical correlation of thermal-hydraulic-mechanical behavior of fractures and its application to modeling reservoir scale cold water injection problems in enhanced geothermal reservoirs. Geothermics, 2016, 64, 81-95.	3.4	58
30	Multiphase Fluids in Porous Media. , 2016, , 15-27.		0
31	Simulation of Coupled Thermal/Hydrological/Mechanical Phenomena in Porous Media. SPE Journal, 2016, 21, 1041-1049.	3.1	22
32	A fully coupled thermal-hydrological-mechanical-chemical model for CO2 geological sequestration. Journal of Natural Gas Science and Engineering, 2016, 28, 280-304.	4.4	88
33	Simulation of THM Processes in Fractured Reservoirs. Geophysical Monograph Series, 2015, , 229-241.	0.1	1
34	Coupled Thermo-Hydrological Processes in Enhanced Geothermal Systems. World Scientific Series in Nanoscience and Nanotechnology, 2015, , 279-298.	0.1	2
35	3D Simulation of Low Salinity, Polymer, Conventional, Water-flooding & Combination IOR Methods â€“ Heterogeneous & Varying Wetting Conditions. , 2015, , .		10
36	Simulation of Coupled Thermal-Hydrological-Mechanical Phenomena in Porous and Fractured Media. , 2015, , .		3

#	Article	IF	Citations
37	Effect of Large Capillary Pressure on Fluid Flow and Transport in Stress-sensitive Tight Oil Reservoirs. , 2015, , .		22
38	Parallel simulation of fully-coupled thermal-hydro-mechanical processes in CO2 leakage through fluid-driven fracture zones. International Journal of Greenhouse Gas Control, 2015, 34, 39-51.	4.6	33
39	Accurate and Efficient Simulation of Fractureâ€“Matrix Interaction in Shale Gas Reservoirs. Transport in Porous Media, 2015, 107, 305-320.	2.6	26
40	Numerical Simulation of Low Permeability Unconventional Gas Reservoirs. , 2014, , .		37
41	A Generalized Framework Model for the Simulation of Gas Production in Unconventional Gas Reservoirs. SPE Journal, 2014, 19, 845-857.	3.1	185
42	A novel fully-coupled flow and geomechanics model in enhanced geothermal reservoirs. Journal of Petroleum Science and Engineering, 2013, 107, 1-11.	4.2	92
43	The Transient Flow Analysis of Fluid in a Fractal, Double-Porosity Reservoir. Transport in Porous Media, 2012, 94, 175-187.	2.6	28
44	Analysis of Multiphase Non-Darcy Flow in Porous Media. Transport in Porous Media, 2011, 88, 205-223.	2.6	38
45	A multiple-continuum model for simulating single-phase and multiphase flow in naturally fractured vuggy reservoirs. Journal of Petroleum Science and Engineering, 2011, 78, 13-22.	4.2	121
46	Fracture-Flow-Enhanced Matrix Diffusion in Solute Transport Through Fractured Porous Media. Transport in Porous Media, 2010, 81, 21-34.	2.6	32
47	An Experimental Study of the Influence of Interfacial Tension on Waterâ€“Oil Two-Phase Relative Permeability. Transport in Porous Media, 2010, 85, 505-520.	2.6	34
48	Non-Darcy Porous Media Flow According to the Barree and Conway Model: Laboratory and Numerical Modeling Studies. , 2009, , .		7
49	Numerical Evaluation of Uncertainty in Water Retention Parameters and Effect on Predictive Uncertainty. Vadose Zone Journal, 2009, 8, 158-166.	2.2	20
50	Simulation of Multiphase Non-Darcy Flow in Porous and Fractured Media. , 2009, , .		3
51	A triple-continuum approach for modeling flow and transport processes in fractured rock. Journal of Contaminant Hydrology, 2004, 73, 145-179.	3.3	158
52	Analysis of flow behavior in fractured lithophysal reservoirs. Journal of Contaminant Hydrology, 2003, 62-63, 189-211.	3.3	67
53	Title is missing!. Transport in Porous Media, 2002, 49, 209-240.	2.6	114
54	Non-Darcy displacement of immiscible fluids in porous media. Water Resources Research, 2001, 37, 2943-2950.	4.2	37

#	Article	IF	Citations
55	On the selection of primary variables in numerical formulation for modeling multiphase flow in porous media. Journal of Contaminant Hydrology, 2001, 48, 277-304.	3.3	57
56	Numerical simulation of non-isothermal multiphase tracer transport in heterogeneous fractured porous media. Advances in Water Resources, 2000, 23, 699-723.	3.8	74
57	A virtual node method for handling well bore boundary conditions in modeling multiphase flow in porous and fractured media. Water Resources Research, 2000, 36, 807-814.	4.2	43
58	Gas Flow in Porous Media With Klinkenberg Effects. Transport in Porous Media, 1998, 32, 117-137.	2.6	287
59	A Multiple-Porosity Method for Simulation of Naturally Fractured Petroleum Reservoirs. SPE Reservoir Engineering, 1988, 3, 327-336.	0.5	166