

Afshin Davarpanah

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4165941/publications.pdf>

Version: 2024-02-01

105
papers

2,960
citations

136740

32
h-index

189595

50
g-index

110
all docs

110
docs citations

110
times ranked

1491
citing authors

#	ARTICLE	IF	CITATIONS
19	An experimental study of acidizing operation performances on the wellbore productivity index enhancement. <i>Journal of Petroleum Exploration and Production</i> , 2018, 8, 1243-1253.	1.2	46
20	A simulation study to enhance the gas production rate by nitrogen replacement in the underground gas storage performance. <i>Energy Reports</i> , 2019, 5, 431-435.	2.5	46
21	Application of Symmetry Law in Numerical Modeling of Hydraulic Fracturing by Finite Element Method. <i>Symmetry</i> , 2020, 12, 1122.	1.1	45
22	Experimental evaluation of polymer-enhanced foam transportation on the foam stabilization in the porous media. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 8107-8116.	1.8	44
23	Experimental study of CO ₂ solubility on the oil recovery enhancement of heavy oil reservoirs. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 1161-1169.	2.0	44
24	Design and construction of a micro-photo bioreactor in order to dairy wastewater treatment by micro-algae: parametric study. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 611-624.	1.2	43
25	Numerical simulation and laboratory evaluation of alkali-surfactant-polymer and foam flooding. <i>International Journal of Environmental Science and Technology</i> , 2020, 17, 1123-1136.	1.8	40
26	Comparison of Exergy and Advanced Exergy Analysis in Three Different Organic Rankine Cycles. <i>Processes</i> , 2020, 8, 586.	1.3	40
27	Hybrid Thermal-Chemical Enhanced Oil Recovery Methods; An Experimental Study for Tight Reservoirs. <i>Symmetry</i> , 2020, 12, 947.	1.1	39
28	A parametric study to simulate the non-Newtonian turbulent flow in spiral tubes. <i>Energy Science and Engineering</i> , 2020, 8, 134-149.	1.9	38
29	An experimental study of alternative hot water alternating gas injection in a fractured model. <i>Energy Exploration and Exploitation</i> , 2019, 37, 945-959.	1.1	36
30	The feasible visual laboratory investigation of formate fluids on the rheological properties of a shale formation. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 4783-4792.	1.8	35
31	Energy, Exergy, Economic, and Exergoenvironmental Analyses of a Novel Hybrid System to Produce Electricity, Cooling, and Syngas. <i>Energies</i> , 2020, 13, 6453.	1.6	34
32	A mathematical model to evaluate the polymer flooding performances. <i>Energy Reports</i> , 2019, 5, 1651-1657.	2.5	33
33	A simulation study to control the oil production rate of oil-rim reservoir under different injectivity scenarios. <i>Energy Reports</i> , 2018, 4, 664-670.	2.5	32
34	Integrated feasibility experimental investigation of hydrodynamic, geometrical and, operational characterization of methanol conversion to formaldehyde. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 89-103.	1.2	32
35	CFD-based simulation to reduce greenhouse gas emissions from industrial plants. <i>International Journal of Chemical Reactor Engineering</i> , 2021, 19, 1179-1186.	0.6	32
36	CFD design and simulation of ethylene dichloride (EDC) thermal cracking reactor. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, 41, 1573-1587.	1.2	31

#	ARTICLE	IF	CITATIONS
37	Application of Implicit Pressure-Explicit Saturation Method to Predict Filtrated Mud Saturation Impact on the Hydrocarbon Reservoirs Formation Damage. <i>Mathematics</i> , 2020, 8, 1057.	1.1	28
38	Environmental Method for Synthesizing Amorphous Silica Oxide Nanoparticles from a Natural Material. <i>Processes</i> , 2021, 9, 334.	1.3	27
39	Study on the Removal Efficiency and Mechanism of Tetracycline in Water Using Biochar and Magnetic Biochar. <i>Coatings</i> , 2021, 11, 1354.	1.2	26
40	An overview of management, recycling, and wasting disposal in the drilling operation of oil and gas wells in Iran. <i>Cogent Environmental Science</i> , 2018, 4, 1537066.	1.6	25
41	Hybrid Application of Nanoparticles and Polymer in Enhanced Oil Recovery Processes. <i>Polymers</i> , 2021, 13, 1414.	2.0	25
42	The Role of Renewable Energy to Achieve Energy Sustainability in Iran. An Economic and Technical Analysis of the Hybrid Power System. <i>Technology and Economics of Smart Grids and Sustainable Energy</i> , 2019, 4, 1.	1.8	24
43	Using Photo-Fenton and Floatation Techniques for the Sustainable Management of Flow-Back Produced Water Reuse in Shale Reservoirs Exploration. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	24
44	Amphoteric and cationic surfactants for enhancing oil recovery from carbonate oil reservoirs. <i>Journal of Molecular Liquids</i> , 2021, 322, 114518.	2.3	23
45	The Economic Evaluation of Methanol and Propylene Production from Natural Gas at Petrochemical Industries in Iran. <i>Sustainability</i> , 2021, 13, 9990.	1.6	22
46	Influence of Different Rotations of Organic Formamidinium Molecule on Electronic and Optical Properties of FAPbBr ₃ Perovskite. <i>Coatings</i> , 2021, 11, 1341.	1.2	21
47	Investigation the Integration of Heliostat Solar Receiver to Gas and Combined Cycles by Energy, Exergy, and Economic Point of Views. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5307.	1.3	20
48	Incorporation of Bi ₂ O ₃ Residuals with Metallic Bi as High Performance Electrocatalyst toward Hydrogen Evolution Reaction. <i>Catalysts</i> , 2021, 11, 1099.	1.6	20
49	Simultaneous feasible injectivity of foam and hydrolyzed polyacrylamide to optimize the oil recovery enhancement. <i>Energy Exploration and Exploitation</i> , 2019, 37, 44-59.	1.1	19
50	An experimental study to measure the required fresh water and treated water for drilling an unconventional shale reservoir. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 7727-7734.	1.8	19
51	Simultaneous evaluation of capillary pressure and wettability alteration based on the USBM and imbibition tests on carbonate minerals. <i>Journal of Petroleum Science and Engineering</i> , 2021, 200, 108285.	2.1	19
52	A parametric study to numerically analyze the formation damage effect. <i>Energy Exploration and Exploitation</i> , 2020, 38, 555-568.	1.1	18
53	A Laboratory Approach on the Hybrid-Enhanced Oil Recovery Techniques with Different Saline Brines in Sandstone Reservoirs. <i>Processes</i> , 2020, 8, 1051.	1.3	17
54	Sustainable Learning Environment by Mobile-Assisted Language Learning Methods on the Improvement of Productive and Receptive Foreign Language Skills: A Comparative Study for Asian Universities. <i>Sustainability</i> , 2021, 13, 6328.	1.6	16

#	ARTICLE	IF	CITATIONS
55	Natural convection of water and nano-emulsion phase change material inside a square enclosure to cool the electronic components. <i>International Journal of Energy Research</i> , 2022, 46, 2403-2417.	2.2	16
56	The main role of energy sustainability indicators on the water management. <i>Modeling Earth Systems and Environment</i> , 2020, 6, 1419-1426.	1.9	15
57	An Analytical Model to Predict the Effects of Suspended Solids in Injected Water on the Oil Displacement Efficiency during Waterflooding. <i>Processes</i> , 2020, 8, 659.	1.3	15
58	Stimulated-based characterization recovery enhancement feedback of oil-rim reservoirs. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 2528-2541.	1.2	14
59	The integrated feasibility analysis of water reuse management in the petroleum exploration performances of unconventional shale reservoirs. <i>Applied Water Science</i> , 2018, 8, 1.	2.8	14
60	Effect of formate fluids on the shale stabilization of shale layers. <i>Energy Reports</i> , 2019, 5, 987-992.	2.5	13
61	Conventional diverting techniques and novel fibr-assisted self-diverting system in carbonate reservoir acidizing with successful case studies. <i>Petroleum Research</i> , 2021, 6, 247-256.	1.6	13
62	Experimental study and field application of appropriate selective calculation methods in gas lift design. <i>Petroleum Research</i> , 2018, 3, 239-247.	1.6	12
63	Sensitivity analysis of reservoir and rock properties during low salinity water injection. <i>Energy Reports</i> , 2019, 5, 1001-1009.	2.5	12
64	Hybrid Chemical Enhanced Oil Recovery Techniques: A Simulation Study. <i>Symmetry</i> , 2020, 12, 1086.	1.1	12
65	Statistical Modeling for Spatial Groundwater Potential Map Based on GIS Technique. <i>Sustainability</i> , 2021, 13, 3788.	1.6	12
66	Experimental investigation on the application of carbon dioxide adsorption for a shale reservoir. <i>Energy Science and Engineering</i> , 2021, 9, 2165-2176.	1.9	12
67	Implementation of energy sustainability using hybrid power systems, a case study. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, , 1-14.	1.2	11
68	A Laboratory Approach to Measure Enhanced Gas Recovery from a Tight Gas Reservoir during Supercritical Carbon Dioxide Injection. <i>Sustainability</i> , 2021, 13, 11606.	1.6	11
69	A simulation study of water injection and gas injectivity scenarios in a fractured carbonate reservoir: A comparative study. <i>Petroleum Research</i> , 2019, 4, 250-256.	1.6	10
70	Sand production control mechanisms during oil well production and construction. <i>Petroleum Research</i> , 2021, 6, 361-367.	1.6	10
71	Evaluation and Classification Risks of Implementing Blockchain in the Drug Supply Chain with a New Hybrid Sorting Method. <i>Sustainability</i> , 2021, 13, 11466.	1.6	10
72	A Laboratory Approach to Measure Carbonate Rocks' Adsorption Density by Surfactant and Polymer. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-7.	0.6	9

#	ARTICLE	IF	CITATIONS
73	Effect of anionic and non-anionic surfactants on the adsorption density. <i>Petroleum Science and Technology</i> , 2021, 39, 362-372.	0.7	8
74	A visual investigation of different pollutants on the rheological properties of sodium/potassium formate fluids. <i>Applied Water Science</i> , 2018, 8, 1.	2.8	7
75	Numerical modelling of hydraulic fracturing procedure in hydrocarbon reservoirs. <i>Modeling Earth Systems and Environment</i> , 2019, 5, 1297-1302.	1.9	6
76	Energy sustainability analyses using feasible indicators for urban areas. <i>International Journal of Energy and Water Resources</i> , 2019, 3, 127-140.	1.3	6
77	Application of Quantitative Computer-Based Analysis for Student's Learning Tendency on the Efficient Utilization of Mobile Phones during Lecture Hours. <i>Sustainability</i> , 2020, 12, 8345.	1.6	6
78	An experimental investigation to consider thermal methods efficiency on oil recovery enhancement. <i>Heat Transfer</i> , 2020, 49, 3066-3074.	1.7	6
79	Forecasting Daily Electricity Price by Hybrid Model of Fractional Wavelet Transform, Feature Selection, Support Vector Machine and Optimization Algorithm. <i>Electronics (Switzerland)</i> , 2021, 10, 2214.	1.8	6
80	Integrated feasibility analysis of shale inhibition property by utilization of pore pressure transmission equipment. <i>Petroleum Research</i> , 2018, 3, 152-158.	1.6	5
81	The Effect of Structural Phase Transitions on Electronic and Optical Properties of CsPbI ₃ Pure Inorganic Perovskites. <i>Coatings</i> , 2021, 11, 1173.	1.2	5
82	Evaluation of Gas Injection in the Horizontal Wells and Optimizing Oil Recovery Factor by Eclipse Software. <i>Journal of Chromatography & Separation Techniques</i> , 2016, 07, .	0.2	4
83	Mathematical modeling of formation damage effect during underbalanced drilling operations. <i>Modeling Earth Systems and Environment</i> , 2019, 5, 1651-1661.	1.9	4
84	Modeling and Optimization of Wind Turbines in Wind Farms for Solving Multi-Objective Reactive Power Dispatch Using a New Hybrid Scheme. <i>Energies</i> , 2021, 14, 5919.	1.6	4
85	Sustainable wastewater management from shale oil production wells: emerging opportunities and barriers. <i>Applied Water Science</i> , 2022, 12, .	2.8	4
86	A New Hybrid Algorithm for Multi-Objective Reactive Power Planning via FACTS Devices and Renewable Wind Resources. <i>Sensors</i> , 2021, 21, 5246.	2.1	3
87	Quantitative Estimation of Ecocultural Bearing Capacity of Urban Agglomerations in Britain. <i>Discrete Dynamics in Nature and Society</i> , 2022, 2022, 1-10.	0.5	3
88	Effectiveness of cellulose polyanionic-based polymers on the measurement of rheological properties of water-based drilling fluids in high-pressure high-temperature fractured shale reservoirs. <i>Applied Water Science</i> , 2022, 12, .	2.8	3
89	Simulation of low and high salinity water injection method to determine the optimum salinity. <i>Petroleum Research</i> , 2019, 4, 348-353.	1.6	2
90	Implementation of a Thematic Analysis Method to Develop a Qualitative Model on the Authentic Foreign Language Learning Perspective: A Case Study in the University of Northern Cyprus. <i>Education Sciences</i> , 2021, 11, 544.	1.4	2

#	ARTICLE	IF	CITATIONS
91	Permeability Decline in Fractured Porous Media During Mineral Scaling: A Detailed Modeling Study. <i>Natural Resources Research</i> , 2022, 31, 601.	2.2	2
92	Statistical Analysis of Treated Flow-Back Water Measurements: An Industrial Insight for a Shale Reservoir. <i>Geofluids</i> , 2022, 2022, 1-5.	0.3	2
93	An analytical approach to investigate formation damage caused by underbalanced drilling performances. <i>International Journal of Energy and Water Resources</i> , 2019, 3, 319-327.	1.3	1
94	Current Challenges and Advancements on the Management of Water Retreatment in Different Production Operations of Shale Reservoirs. <i>Water (Switzerland)</i> , 2021, 13, 2131.	1.2	1
95	Implementation analysis of technical-economic solar and wind energy potential for small homes: a case study.. <i>Environmental Risk Assessment and Remediation</i> , 2017, 01, .	0.4	1
96	Advanced Binder-Free Electrode Based on CuCo ₂ O ₄ Nanowires Coated with Polypyrrole Layer as a High-Performance Nonenzymatic Glucose Sensing Platform. <i>Coatings</i> , 2021, 11, 1462.	1.2	1
97	Computational fluid dynamic simulations to improve heat transfer in shell tube heat exchangers. <i>International Journal of Chemical Reactor Engineering</i> , 2022, 20, 749-764.	0.6	1
98	Considerable Influence of Reservoir Properties on the Production Flow Rate During Low Salinity Water Flooding. <i>Advances in Science, Technology and Innovation</i> , 2019, , 41-43.	0.2	0
99	Implications of Chemical-Thermal enhanced oil recovery methods in shale reservoirs. <i>Cogent Engineering</i> , 2021, 8, 1920564.	1.1	0
100	Special Issue "Fluid Dynamics, Multi-Phase Flow, and Thermal Recovery Methods" Processes, 2021, 9, 842.	1.3	0
101	On the application of different surfactant types to measure the carbonate's adsorption density: a parametric study. <i>Carbonates and Evaporites</i> , 2021, 36, 1.	0.4	0
102	Modeling of a dry low nitrogen oxides burner using a three-dimensional computational fluid dynamics simulation. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 0, , 095440892110355.	1.4	0
103	A Comprehensive Thermo-economic Evaluation and Multi-Criteria Optimization of a Combined MCFC/TEG System. <i>Sustainability</i> , 2021, 13, 13187.	1.6	0
104	Prediction of the capillary pressure of fluid surrounding a cylinder representing an idealized rock structure in porous media. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	0
105	A Unified Power Quality Conditioner for Feeder Reconfiguration and Setting to Minimize the Power Loss and Improve Voltage Profile. <i>Complexity</i> , 2022, 2022, 1-8.	0.9	0