Muhammad Arif

List of Publications by Year in descending order

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201385 223531 2,379 54 27 46 h-index citations g-index papers 55 55 55 1168 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Impact of pressure and temperature on CO 2 –brine–mica contact angles and CO 2 –brine interfacial tension: Implications for carbon geo-sequestration. Journal of Colloid and Interface Science, 2016, 462, 208-215.	5.0	190
2	Wettability of rock/CO2/brine and rock/oil/CO2-enriched-brine systems: Critical parametric analysis and future outlook. Advances in Colloid and Interface Science, 2019, 268, 91-113.	7.0	138
3	Wettability of nanofluid-modified oil-wet calcite at reservoir conditions. Fuel, 2018, 211, 405-414.	3.4	116
4	CO2 storage in carbonates: Wettability of calcite. International Journal of Greenhouse Gas Control, 2017, 62, 113-121.	2.3	108
5	Influence of shaleâ€ŧotal organic content on CO ₂ geoâ€storage potential. Geophysical Research Letters, 2017, 44, 8769-8775.	1.5	107
6	Solid/CO 2 and solid/water interfacial tensions as a function of pressure, temperature, salinity and mineral type: Implications for CO 2 -wettability and CO 2 geo-storage. International Journal of Greenhouse Gas Control, 2016, 53, 263-273.	2.3	103
7	Organic acid concentration thresholds for ageing of carbonate minerals: Implications for CO2 trapping/storage. Journal of Colloid and Interface Science, 2019, 534, 88-94.	5.0	91
8	CO2-wettability of low to high rank coal seams: Implications for carbon sequestration and enhanced methane recovery. Fuel, 2016, 181, 680-689.	3.4	89
9	Stabilising nanofluids in saline environments. Journal of Colloid and Interface Science, 2017, 508, 222-229.	5.0	88
10	CO2-wettability of sandstones exposed to traces of organic acids: Implications for CO2 geo-storage. International Journal of Greenhouse Gas Control, 2019, 83, 61-68.	2.3	88
11	Structural trapping capacity of oil-wet caprock as a function of pressure, temperature and salinity. International Journal of Greenhouse Gas Control, 2016, 50, 112-120.	2.3	84
12	A new method for TOC estimation in tight shale gas reservoirs. International Journal of Coal Geology, 2017, 179, 269-277.	1.9	76
13	Influence of tailor-made TiO2/API bentonite nanocomposite on drilling mud performance: Towards enhanced drilling operations. Applied Clay Science, 2020, 199, 105862.	2.6	76
14	Shale Wettability: Data Sets, Challenges, and Outlook. Energy & Energy & 2021, 35, 2965-2980.	2.5	76
15	X-ray tomography imaging of shale microstructures: A review in the context of multiscale correlative imaging. International Journal of Coal Geology, 2021, 233, 103641.	1.9	69
16	Influence of surface chemistry on interfacial properties of low to high rank coal seams. Fuel, 2017, 194, 211-221.	3.4	63
17	Effect of humic acid on CO2-wettability in sandstone formation. Journal of Colloid and Interface Science, 2021, 588, 315-325.	5.0	63
18	Wettability of nano-treated calcite/CO 2 /brine systems: Implication for enhanced CO 2 storage potential. International Journal of Greenhouse Gas Control, 2017, 66, 97-105.	2.3	50

#	Article	IF	Citations
19	Experimental investigation of carbonate wettability as a function of mineralogical and thermo-physical conditions. Fuel, 2020, 264, 116846.	3.4	49
20	Electrochemical investigation of the effect of temperature, salinity and salt type on brine/mineral interfacial properties. International Journal of Greenhouse Gas Control, 2017, 59, 136-147.	2.3	48
21	Hydrogen storage potential of coals as a function of pressure, temperature, and rank. Journal of Colloid and Interface Science, 2022, 620, 86-93.	5.0	47
22	A novel hybrid method for gas hydrate filling modes identification via digital rock. Marine and Petroleum Geology, 2020, 115, 104255.	1.5	46
23	CO 2 geo-storage capacity enhancement via nanofluid priming. International Journal of Greenhouse Gas Control, 2017, 63, 20-25.	2.3	39
24	Porosity estimation in kerogen-bearing shale gas reservoirs. Journal of Natural Gas Science and Engineering, 2018, 52, 575-581.	2.1	37
25	Different Approaches Used for Modeling and Simulation of Polymer Electrolyte Membrane Fuel Cells: A Review. Energy & Ene	2.5	31
26	Influence of pore structural properties on gas hydrate saturation and permeability: A coupled pore-scale modelling and X-ray computed tomography method. Journal of Natural Gas Science and Engineering, 2021, 88, 103805.	2.1	31
27	Mineralogy and pore topology analysis during matrix acidizing of tight sandstone and dolomite formations using chelating agents. Journal of Petroleum Science and Engineering, 2018, 167, 869-876.	2.1	30
28	Fluid–rock interactions and its implications on EOR: Critical analysis, experimental techniques and knowledge gaps. Energy Reports, 2022, 8, 6355-6395.	2.5	30
29	A systematic review of Anhydrite-Bearing Reservoirs: EOR Perspective, CO2-Geo-storage and future research. Fuel, 2022, 320, 123942.	3.4	27
30	Neutron scattering: A subsurface application review. Earth-Science Reviews, 2021, 221, 103755.	4.0	26
31	Coal fines migration: A holistic review of influencing factors. Advances in Colloid and Interface Science, 2022, 301, 102595.	7.0	22
32	Carbonate rock mechanical response to CO2 flooding evaluated by a combined X-ray computed tomography – DEM method. Journal of Natural Gas Science and Engineering, 2020, 84, 103675.	2.1	21
33	Influence of Miscible CO2 Flooding on Wettability and Asphaltene Precipitation in Indiana Lime Stone. , 2017, , .		20
34	Influence of Hydrophobicity and Porosity of the Gas Diffusion Layer on Mass Transport Losses in PEM Fuel Cells: A Simulation Study Supported by Experiments. Energy & Experiments. 2020, 34, 13010-13022.	2.5	20
35	Influence of gas hydrate saturation and pore habits on gas relative permeability in gas hydrate-bearing sediments: Theory, experiment and case study. Journal of Natural Gas Science and Engineering, 2021, 95, 104171.	2.1	19
36	Impact of Solid Surface Energy on Wettability of CO2-brine-Mineral Systems as a Function of Pressure, Temperature and Salinity. Energy Procedia, 2017, 114, 4832-4842.	1.8	17

#	Article	IF	CITATIONS
37	Wettability Alteration of Carbonate Rocks via Nanoparticle-Anionic Surfactant Flooding at Reservoirs Conditions. , $2017, \dots$		17
38	A Multiscale Investigation of Cross-Linked Polymer Gel Injection in Sandstone Gas Reservoirs: Implications for Water Shutoff Treatment. Energy & Energy & 2020, 34, 14046-14057.	2.5	17
39	Investigation of change in different properties of sandstone and dolomite samples during matrix acidizing using chelating agents. Journal of Petroleum Exploration and Production, 2019, 9, 2793-2809.	1.2	16
40	Influence of Heterogeneity on Carbonate Permeability Upscaling: A Renormalization Approach Coupled with the Pore Network Model. Energy & Samp; Fuels, 2022, 36, 3003-3015.	2.5	16
41	Simulating Coal Permeability Change as a Function of Effective Stress Using a Microscale Digital Rock Model. Energy & En	2.5	14
42	CO2 Wettability of Shales and Coals as a Function of Pressure, Temperature and Rank: Implications for CO2 Sequestration and Enhanced Methane Recovery. , 2016, , .		9
43	Low-Salinity-Assisted Cationic Polyacrylamide Water Shutoff in Low-Permeability Sandstone Gas Reservoirs. Energy & Dels, 2020, 34, 5524-5536.	2,5	9
44	Rock/Fluid/Polymer Interaction Mechanisms: Implications for Water Shut-off Treatment. Energy & Samp; Fuels, 2021, 35, 12809-12827.	2.5	9
45	Effect of Native Reservoir State and Oilfield Operations on Clay Mineral Surface Chemistry. Molecules, 2022, 27, 1739.	1.7	7
46	Development of Hybrid Drilling Fluid and Enzyme–Acid Precursor-Based Clean-Up Fluid for Wells Drilled with Calcium Carbonate-Based Drilling Fluids. ACS Omega, 2020, 5, 25984-25992.	1.6	6
47	Experimental and numerical investigation on the dynamic damage behavior of gas-bearing coal. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2022, $8,1.$	1.3	6
48	Wettability of Shale/Oil/Brine Systems: A New Physicochemical and Imaging Approach., 2022,,.		5
49	Investigation of Surface Charge at the Mineral/Brine Interface: Implications for Wettability Alteration. Frontiers in Materials, 2022, 9, .	1.2	4
50	An Alternative Approach for Well Test Analysis and Production Performance in Tight Gas Reservoirs Considering Stress Dependent Permeability. , 2012, , .		3
51	Impact of prolonged waterâ€gas flow on the performance of polyacrylamide. Journal of Applied Polymer Science, 2022, 139, .	1.3	3
52	Efficient Polymer Scattering Layer Fabrication and their Application in Electrical Properties Enhancement of Perovskite/Silicon Tandem Solar Cells. Key Engineering Materials, 0, 778, 283-289.	0.4	2
53	Characterization of Elastic Properties of Lacustrine Shale Reservoir Using Well Logging and Core Analysis., 2016,,.		1
54	Higher State Trellis Coded Modulation for Asymmetric Digital Subscriber Transceivers. , 2006, , .		O