

Eswaran Padmanabhan

List of Publications by Year in descending order

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54
papers

1,525
citations

394286

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315616

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times ranked

1200
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydraulic Fracturing to Investigate Impact of Fracturing Medium, Bedding Angle and Perforation Length on Fracture Growth in Low and High Brittle Shale. , 2022, , .		2
2	Artificial neural network (ANN) modeling for CO ₂ adsorption on Marcellus Shale. IOP Conference Series: Earth and Environmental Science, 2022, 1003, 012029.	0.2	1
3	Surface analysis of liquid adsorption onto shale. IOP Conference Series: Earth and Environmental Science, 2022, 1003, 012046.	0.2	2
4	Experimental Assessment of Fracture Initiation and Wettability in Low and High Brittle Shales by CO ₂ Foam Fracturing Fluids. Energy & Fuels, 2022, 36, 8288-8300.	2.5	6
5	CO ₂ /brine interfacial tension and rock wettability at reservoir conditions: A critical review of previous studies and case study of black shale from Malaysian formation. Journal of Petroleum Science and Engineering, 2021, 196, 107673.	2.1	63
6	Mechanism of CH ₄ Sorption onto a Shale Surface in the Presence of Cationic Surfactant. Energy & Fuels, 2021, 35, 7943-7955.	2.5	13
7	A review of transport mechanisms and models for unconventional tight shale gas reservoir systems. International Journal of Heat and Mass Transfer, 2021, 175, 121125.	2.5	28
8	Shale core wettability alteration, foam and emulsion stabilization by surfactant: Impact of surfactant concentration, rock surface roughness and nanoparticles. Journal of Petroleum Science and Engineering, 2021, 207, 109139.	2.1	39
9	Optimization of coiled tubing nozzle for sand removal from wellbore. Journal of Petroleum Exploration and Production, 2020, 10, 53-66.	1.2	7
10	Synergistic influence of nanoparticles and surfactants on interfacial tension reduction, wettability alteration and stabilization of oil-in-water emulsion. Journal of Petroleum Science and Engineering, 2020, 186, 106779.	2.1	50
11	Synergetic Effect of Surfactant Concentration, Salinity, and Pressure on Adsorbed Methane in Shale at Low Pressure: An Experimental and Modeling Study. ACS Omega, 2020, 5, 20107-20121.	1.6	15
12	Petro-physical properties of Marcellus shale samples and their impact on CO ₂ adsorption: Equilibrium, kinetics, and empirical modeling study. Journal of Natural Gas Science and Engineering, 2020, 81, 103423.	2.1	21
13	Characterization of lauryl betaine foam in the Hele-Shaw cell at high foam qualities (80%–98%). Petroleum Science, 2020, 17, 1634-1654.	2.4	6
14	Wettability of rock/CO ₂ /brine systems: A critical review of influencing parameters and recent advances. Journal of Industrial and Engineering Chemistry, 2020, 88, 1-28.	2.9	70
15	Methane sorption capacities and geochemical characterization of Paleozoic shale Formations from Western Peninsula Malaysia: Implication of shale gas potential. International Journal of Coal Geology, 2020, 224, 103480.	1.9	13
16	Organic geochemical analyses of the Belata black shale, Peninsular Malaysia; implications on their shale gas potential. Journal of Natural Gas Science and Engineering, 2019, 69, 102945.	2.1	28
17	Characterization of Nano-Fe ₂ O ₃ -Stabilized Polymer-Free Foam Fracturing Fluids for Unconventional Gas Reservoirs. Energy & Fuels, 2019, 33, 10570-10582.	2.5	28
18	Static dissolution-induced 3D pore network modification and its impact on critical pore attributes of carbonate rocks. Petroleum Exploration and Development, 2019, 46, 374-383.	3.0	9

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19	CO ₂ sorption and rate characteristics in micropores of shales. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 68, 102903.	2.1	17
20	Synergistic effects of nanoparticles and surfactants on n-decane-water interfacial tension and bulk foam stability at high temperature. <i>Journal of Petroleum Science and Engineering</i> , 2019, 179, 814-830.	2.1	86
21	Surfactant adsorption behaviors onto shale from Malaysian formations: Influence of silicon dioxide nanoparticles, surfactant type, temperature, salinity and shale lithology. <i>Journal of Petroleum Science and Engineering</i> , 2019, 179, 841-854.	2.1	71
22	Thermophysical profile of SiO ₂ /CuO/C nanocomposite in base liquid ethylene glycol. <i>Powder Technology</i> , 2019, 354, 540-551.	2.1	14
23	Nanoparticles applications for hydraulic fracturing of unconventional reservoirs: A comprehensive review of recent advances and prospects. <i>Journal of Petroleum Science and Engineering</i> , 2019, 178, 41-73.	2.1	98
24	Impact of rock fabric on flow unit characteristics in selected reservoir sandstones from West Baram Delta Offshore, Sarawak. <i>Journal of Petroleum Exploration and Production</i> , 2019, 9, 2149-2164.	1.2	5
25	Effect of synthesized lysine-grafted silica nanoparticle on surfactant stabilized O/W emulsion stability: Application in enhanced oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 2019, 177, 861-871.	2.1	36
26	Effect of pH on the stability of quartz in a multi-phase system of kaolinite, hydrous Al (hydr)oxide and quartz. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	7
27	Viscosity, electrical and thermal conductivities of ethylene and propylene glycol-based TiO_2 -SiC nanofluids. <i>Journal of Molecular Liquids</i> , 2019, 284, 780-792.	2.3	43
28	Applicability of various adsorption isotherm models on adsorption of methane and CO ₂ on Indian shales. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 13222.	1.3	9
29	Review of gas adsorption in shales for enhanced methane recovery and CO ₂ storage. <i>Journal of Petroleum Science and Engineering</i> , 2019, 175, 634-643.	2.1	172
30	Incorporation of silica into the goethite structure: a microscopic and spectroscopic study. <i>Acta Geochimica</i> , 2018, 37, 911-921.	0.7	4
31	Determination of solvation free energy of carbon dioxide (CO ₂) in the mixture of brine, Alfa Olefin Sulfonate (AOS) and CH ₄ after foam fracturing in the shale reservoirs on enhanced shale gas recovery (ESGR). <i>Journal of Natural Gas Science and Engineering</i> , 2018, 54, 102-109.	2.1	2
32	A comprehensive review of experimental studies of nanoparticles-stabilized foam for enhanced oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 2018, 164, 43-74.	2.1	224
33	Retention of Hydraulic Fracturing Water in Shale: The Influence of Anionic Surfactant. <i>Energies</i> , 2018, 11, 3342.	1.6	20
34	Influence of Water Immersion on Pore System and Methane Desorption of Shales: A Case Study of Batu Gajah and Kroh Shale Formations in Malaysia. <i>Energies</i> , 2018, 11, 1511.	1.6	6
35	Facies and porosity 3D models constrained by stochastic seismic inversion to delineate Paleocene fluvial/lacustrine reservoirs in Melut Rift Basin, Sudan. <i>Marine and Petroleum Geology</i> , 2018, 98, 79-96.	1.5	13
36	The Influence of shales characteristics on CO ₂ adsorption behaviour under sub-critical conditions. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 164, 012031.	0.2	7

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37	A review of recent advances in foam-based fracturing fluid application in unconventional reservoirs. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 66, 45-71.	2.9	92
38	Shale Gas as an Alternative Energy Source. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 2018, , 561-575.	0.3	0
39	Seismic inversion as a predictive tool for porosity and facies delineation in Paleocene fluvial/lacustrine reservoirs, Melut Basin, Sudan. <i>Marine and Petroleum Geology</i> , 2017, 86, 213-227.	1.5	12
40	An enhanced approach to predict permeability in reservoir sandstones using artificial neural networks (ANN). <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	0.6	7
41	Geochemistry of Miocene sedimentary rocks from offshore West Baram Delta, Sarawak Basin, Malaysia, South China Sea: implications for weathering, provenance, tectonic setting, paleoclimate and paleoenvironment of deposition. <i>Geosciences Journal</i> , 2017, 21, 167-185.	0.6	13
42	Investigation of Depth and Injection Pressure Effects on Breakdown Pressure and Fracture Permeability of Shale Reservoirs: An Experimental Study. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 664.	1.3	32
43	Yellowing of a Red South African Kandiodult, Studied by Means of MÃ¶ssbauer Spectroscopy. <i>Soil Science</i> , 2016, 181, 75-81.	0.9	4
44	Geopolymer as well cement and its mechanical integrity under deep down-hole stress conditions: application for carbon capture and storage wells. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2016, 2, 245-256.	1.3	30
45	Mineralogy and geochemistry of Palaeozoic black shales from Peninsular Malaysia: Implications for their origin and maturation. <i>International Journal of Coal Geology</i> , 2016, 165, 90-105.	1.9	33
46	The impact of stylolites and fractures in defining critical petrophysical and geomechanical properties of some carbonate rocks. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2015, 1, 55-67.	1.3	10
47	Quartz surface morphology of Tertiary rocks from North East Sarawak, Malaysia: Implications for paleo-depositional environment and reservoir rock quality predictions. <i>Petroleum Exploration and Development</i> , 2014, 41, 761-770.	3.0	9
48	The origin of oil in the Cretaceous succession from the South Pars Oil Layer of the Persian Gulf. <i>International Journal of Earth Sciences</i> , 2013, 102, 1337-1355.	0.9	6
49	Soil carbon stocks in Sarawak, Malaysia. <i>Science of the Total Environment</i> , 2013, 465, 196-204.	3.9	6
50	Classifying soils at the ultimate stage of weathering in the tropics. <i>Journal of Plant Nutrition and Soil Science</i> , 2012, 175, 86-93.	1.1	4
51	Chapter 2 Pedogenesis. <i>Developments in Soil Science</i> , 1996, 24, 43-61.	0.5	21
52	The Problem of Expressing the Specific Surface Areas of Clay Fractions. <i>Clays and Clay Minerals</i> , 1995, 43, 237-245.	0.6	8
53	Hydraulic Fracture Conductivity in Shale Reservoirs. , 0, , .		0
54	Application of benchtop humidity and temperature chamber in the measurement of water vapor sorption in US shales from Mancos, Marcellus, Eagle Ford and Wolfcamp formations. <i>Journal of Petroleum Exploration and Production</i> , 0, , 1.	1.2	0