

Eswaran Padmanabhan

List of Publications by Year in descending order

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54
papers

1,525
citations

394286

19
h-index

315616

38
g-index

55
all docs

55
docs citations

55
times ranked

1200
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | Wettability of rock/CO ₂ /brine systems: A critical review of influencing parameters and recent advances. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 88, 1-28. | 2.9 | 70 |
| 8 | 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. <i>Journal of Petroleum Science and Engineering</i> , 2021, 196, 107673. | 2.1 | 63 |
| 9 | Synergistic influence of nanoparticles and surfactants on interfacial tension reduction, wettability alteration and stabilization of oil-in-water emulsion. <i>Journal of Petroleum Science and Engineering</i> , 2020, 186, 106779. | 2.1 | 50 |
| 10 | Viscosity, electrical and thermal conductivities of ethylene and propylene glycol-based \hat{I}^2 -SiC nanofluids. <i>Journal of Molecular Liquids</i> , 2019, 284, 780-792. | 2.3 | 43 |
| 11 | Shale core wettability alteration, foam and emulsion stabilization by surfactant: Impact of surfactant concentration, rock surface roughness and nanoparticles. <i>Journal of Petroleum Science and Engineering</i> , 2021, 207, 109139. | 2.1 | 39 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Organic geochemical analyses of the Belata black shale, Peninsular Malaysia; implications on their shale gas potential. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 69, 102945. | 2.1 | 28 |
| 17 | Characterization of Nano-Fe ₂ O ₃ -Stabilized Polymer-Free Foam Fracturing Fluids for Unconventional Gas Reservoirs. <i>Energy & Fuels</i> , 2019, 33, 10570-10582. | 2.5 | 28 |
| 18 | A review of transport mechanisms and models for unconventional tight shale gas reservoir systems. <i>International Journal of Heat and Mass Transfer</i> , 2021, 175, 121125. | 2.5 | 28 |

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|----|---|-----|-----------|
| 19 | Chapter 2 Pedogenesis. <i>Developments in Soil Science</i> , 1996, 24, 43-61. | 0.5 | 21 |
| 20 | Petro-physical properties of Marcellus shale samples and their impact on CO ₂ adsorption: Equilibrium, kinetics, and empirical modeling study. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 81, 103423. | 2.1 | 21 |
| 21 | Retention of Hydraulic Fracturing Water in Shale: The Influence of Anionic Surfactant. <i>Energies</i> , 2018, 11, 3342. | 1.6 | 20 |
| 22 | 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 |
| 23 | Synergetic Effect of Surfactant Concentration, Salinity, and Pressure on Adsorbed Methane in Shale at Low Pressure: An Experimental and Modeling Study. <i>ACS Omega</i> , 2020, 5, 20107-20121. | 1.6 | 15 |
| 24 | Thermophysical profile of SiCâ€“CuO/C nanocomposite in base liquid ethylene glycol. <i>Powder Technology</i> , 2019, 354, 540-551. | 2.1 | 14 |
| 25 | 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 |
| 26 | 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 |
| 27 | Methane sorption capacities and geochemical characterization of Paleozoic shale Formations from Western Peninsula Malaysia: Implication of shale gas potential. <i>International Journal of Coal Geology</i> , 2020, 224, 103480. | 1.9 | 13 |
| 28 | Mechanism of CH ₄ Sorption onto a Shale Surface in the Presence of Cationic Surfactant. <i>Energy & Fuels</i> , 2021, 35, 7943-7955. | 2.5 | 13 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | Static dissolution-induced 3D pore network modification and its impact on critical pore attributes of carbonate rocks. <i>Petroleum Exploration and Development</i> , 2019, 46, 374-383. | 3.0 | 9 |
| 33 | 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 |
| 34 | The Problem of Expressing the Specific Surface Areas of Clay Fractions. <i>Clays and Clay Minerals</i> , 1995, 43, 237-245. | 0.6 | 8 |
| 35 | 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 |
| 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 | Effect of pH on the stability of quartz in a multi-phase system of kaolinite, hydrous Al (hydr)oxide and quartz. SN Applied Sciences, 2019, 1, 1. | 1.5 | 7 |
| 38 | Optimization of coiled tubing nozzle for sand removal from wellbore. Journal of Petroleum Exploration and Production, 2020, 10, 53-66. | 1.2 | 7 |
| 39 | The origin of oil in the Cretaceous succession from the South Pars Oil Layer of the Persian Gulf. International Journal of Earth Sciences, 2013, 102, 1337-1355. | 0.9 | 6 |
| 40 | Soil carbon stocks in Sarawak, Malaysia. Science of the Total Environment, 2013, 465, 196-204. | 3.9 | 6 |
| 41 | Influence of Water Immersion on Pore System and Methane Desorption of Shales: A Case Study of Batu Gajah and Kroh Shale Formations in Malaysia. Energies, 2018, 11, 1511. | 1.6 | 6 |
| 42 | Characterization of lauryl betaine foam in the Hele-Shaw cell at high foam qualities (80%â€“98%). Petroleum Science, 2020, 17, 1634-1654. | 2.4 | 6 |
| 43 | 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 |
| 44 | Impact of rock fabric on flow unit characteristics in selected reservoir sandstones from West Baram Delta Offshore, Sarawak. Journal of Petroleum Exploration and Production, 2019, 9, 2149-2164. | 1.2 | 5 |
| 45 | Classifying soils at the ultimate stage of weathering in the tropics. Journal of Plant Nutrition and Soil Science, 2012, 175, 86-93. | 1.1 | 4 |
| 46 | Yellowing of a Red South African Kandiodult, Studied by Means of MÃ¶ssbauer Spectroscopy. Soil Science, 2016, 181, 75-81. | 0.9 | 4 |
| 47 | Incorporation of silica into the goethite structure: a microscopic and spectroscopic study. Acta Geochimica, 2018, 37, 911-921. | 0.7 | 4 |
| 48 | 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). Journal of Natural Gas Science and Engineering, 2018, 54, 102-109. | 2.1 | 2 |
| 49 | Hydraulic Fracturing to Investigate Impact of Fracturing Medium, Bedding Angle and Perforation Length on Fracture Growth in Low and High Brittle Shale. , 2022, , . | | 2 |
| 50 | Surface analysis of liquid adsorption onto shale. IOP Conference Series: Earth and Environmental Science, 2022, 1003, 012046. | 0.2 | 2 |
| 51 | 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 |
| 52 | Shale Gas as an Alternative Energy Source. Advances in Environmental Engineering and Green Technologies Book Series, 2018, , 561-575. | 0.3 | 0 |
| 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. Journal of Petroleum Exploration and Production, 0, , 1. | 1.2 | 0 |