Pankaj Tiwari

List of Publications by Year in descending order

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56 papers	1,985 citations	304602 22 h-index	243529 44 g-index
57 all docs	57 docs citations	57 times ranked	2008 citing authors

#	Article	IF	Citations
1	Compositional and kinetic study of thermal degradation of kerogen using <scp>TGâ€FTIR</scp>, <scp>NMR</scp>, and microscopic study. AIChE Journal, 2022, 68, .	1.8	5
2	Core Flooding Studies Using Microbial Systems. Green Energy and Technology, 2022, , 221-241.	0.4	0
3	Screening of Extremophiles for Microbial Enhanced Oil Recovery Based on Surface Active Properties. Green Energy and Technology, 2022, , 101-121.	0.4	0
4	CO2-Based Enhanced Oil Recovery. Green Energy and Technology, 2022, , 51-71.	0.4	1
5	Design of Consortium for the Production of Desired Metabolites. Green Energy and Technology, 2022, , 179-195.	0.4	1
6	Identification of Various Metabolites like Gases, Biopolymers and Biosurfactants. Green Energy and Technology, 2022, , 197-220.	0.4	2
7	Recent Case Studies of In-Situ and Ex-Situ Microbial Enhanced Oil Recovery. Green Energy and Technology, 2022, , 243-260.	0.4	2
8	Secondary and Tertiary Oil Recovery Processes. Green Energy and Technology, 2022, , 23-50.	0.4	2
9	Optimization of Culture Conditions for the Production of Biosurfactants. Green Energy and Technology, 2022, , 149-178.	0.4	1
10	Effect of Reservoir Environmental Conditions and Inherent Microorganisms. Green Energy and Technology, 2022, , 123-148.	0.4	0
11	Optimum Formulation of Chemical Slug and Core Flooding Studies. Green Energy and Technology, 2022, , 73-99.	0.4	0
12	Experimental investigation on suitability of Surfactin for enhanced oil recovery: Stability, adsorption equilibrium and kinetics studies. Journal of Environmental Chemical Engineering, 2022, 10, 107083.	3.3	4
13	Modeling and simulation of wood pyrolysis process using COMSOL Multiphysics. Bioresource Technology Reports, 2022, 17, 100941.	1.5	2
14	Investigation of co-pyrolysis mechanism of oil shale and rubber seed shell, product yield and optimization of pyrolysis parameter using response surface methodology. Fuel, 2022, 317, 123441.	3.4	7
15	Pore-scale investigation of immiscible fluid displacement process in randomly distributed bead-based porous micromodels using Micro-PIV. Journal of Petroleum Science and Engineering, 2022, 212, 110301.	2.1	4
16	Experimental and simulation study of surfactant flooding using a combined surfactant system for enhanced oil recovery. Petroleum Science and Technology, 2022, 40, 2907-2924.	0.7	3
17	Soaking and hydrous pyrolysis of Indian oil shale: Identification of produced hydrocarbons and moieties. Fuel, 2022, 322, 124255.	3.4	2
18	CO2 foams for enhanced oil recovery. , 2022, , 229-250.		0

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19	Measurements of Solid Velocity in a Pilot-Scale Geldartâ€™s Group B Circulating Fluidized Bed Using a Radioactive Particle Tracking Technique. Industrial & Engineering Chemistry Research, 2022, 61, 9110-9121.	1.8	4
20	Comparative study of physicochemical and rheological property of waste cooking oil, castor oil, rubber seed oil, their methyl esters and blends with mineral diesel fuel. Materials Science for Energy Technologies, 2021, 4, 148-155.	1.0	10
21	Micro-particle Image Velocimetry Measurements of Pore-Scale Velocity Field during Nanoparticle-Assisted Alkaline Flooding. Energy & Fuels, 2021, 35, 12957-12973.	2.5	7
22	Oil washing proficiency of biosurfactant produced by isolated Bacillus tequilensis MK 729017 from Assam reservoir soil. Journal of Petroleum Science and Engineering, 2020, 195, 107612.	2.1	49
23	Effect of High Pressure on Nonisothermal Pyrolysis Kinetics of Oil Shale and Product Yield. Energy & Fuels, 2020, 34, 15855-15869.	2.5	13
24	Effects of CO2-foam stability, interfacial tension and surfactant adsorption on oil recovery by alkaline-surfactant-alternated-gas/CO2 flooding. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 597, 124799.	2.3	37
25	Thermal degradation study of waste polyethylene terephthalate (PET) under inert and oxidative environments. Thermochimica Acta, 2019, 679, 178340.	1.2	77
26	Optimization of Immiscible Alkaline-Surfactant-Alternated-Gas/CO2 Flooding in an Upper Assam Oilfield. , 2019, , .		4
27	Impact of Natural Surfactant (Reetha), Polymer (Xanthan Gum), and Silica Nanoparticles To Enhance Heavy Crude Oil Recovery. Energy & Fuels, 2019, 33, 4225-4236.	2.5	62
28	Thermal and co-pyrolysis of rubber seed cake with waste polystyrene for bio-oil production. Journal of Analytical and Applied Pyrolysis, 2019, 139, 333-343.	2.6	33
29	Production of novel rhamnolipids via biodegradation of waste cooking oil using Pseudomonas aeruginosa MTCC7815. Biodegradation, 2019, 30, 301-312.	1.5	54
30	Detailed physicochemical and thermochemical investigation of Upper Assam oil shale. Journal of Thermal Analysis and Calorimetry, 2019, 138, 1221-1232.	2.0	7
31	Effect of carrier fluid rheology on shear-induced particle migration in asymmetric T-shaped bifurcation channel. International Journal of Multiphase Flow, 2019, 111, 272-284.	1.6	4
32	Alkaline-surfactant-alternated-gas/CO2 flooding: Effects of key parameters. Journal of Petroleum Science and Engineering, 2019, 173, 547-557.	2.1	23
33	Enhanced oil recovery by alkaline-surfactant-alternated-gas/CO2 flooding. Journal of Petroleum Exploration and Production, 2019, 9, 247-260.	1.2	28
34	Silica Nanoparticle Assisted Polymer Flooding of Heavy Crude Oil: Emulsification, Rheology, and Wettability Alteration Characteristics. Industrial & Engineering Chemistry Research, 2018, 57, 6364-6376.	1.8	103
35	Thermo-chemical conversion of waste rubber seed shell to produce fuel and value-added chemicals. Journal of the Energy Institute, 2018, 91, 940-950.	2.7	21
36	Valorization of packaging plastic waste by slow pyrolysis. Resources, Conservation and Recycling, 2018, 128, 69-77.	5.3	170

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37	Influence of emulsification, interfacial tension, wettability alteration and saponification on residual oil recovery by alkali flooding. Journal of Industrial and Engineering Chemistry, 2018, 59, 286-296.	2.9	66
38	Effects of interfacial tension, oil layer break time, emulsification and wettability alteration on oil recovery for carbonate reservoirs. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 559, 92-103.	2.3	40
39	Isolation and characterization of biosurfactant producing and oil degrading Bacillus subtilis MG495086 from formation water of Assam oil reservoir and its suitability for enhanced oil recovery. Bioresource Technology, 2018, 270, 439-448.	4.8	111
40	TGA-FTIR analysis of Upper Assam oil shale, optimization of lab-scale pyrolysis process parameters using RSM. Journal of Analytical and Applied Pyrolysis, 2018, 135, 397-405.	2.6	23
41	The effect of slow pyrolysis on the conversion of packaging waste plastics (PE and PP) into fuel. Waste Management, 2018, 79, 615-624.	3.7	113
42	Interfacial Interaction and Emulsification of Crude Oil to Enhance Oil Recovery. International Journal of Oil, Gas and Coal Technology, 2018, 1, 1.	0.1	2
43	Thermal degradation kinetics of plastics and model selection. Thermochimica Acta, 2017, 654, 191-202.	1.2	161
44	Thermal decomposition and kinetics of residual rubber seed cake and shell. Journal of Thermal Analysis and Calorimetry, 2017, 129, 577-592.	2.0	8
45	Thermal Degradation Kinetic Study of Rubber Seed Oil and Its Methyl Esters under Inert Atmosphere. Energy & Fuels, 2017, 31, 9642-9651.	2.5	9
46	Effect of mineralogy on the adsorption characteristics of surfactantâ€"Reservoir rock system. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 531, 121-132.	2.3	60
47	Two-step process for production of methyl ester from rubber seed oil using barium hydroxide octahydrate catalyst: Process optimization. Journal of Cleaner Production, 2017, 142, 3490-3499.	4.6	29
48	Petroleum Reservoir Simulation of Two-Phase Flow. Lecture Notes in Mechanical Engineering, 2017, , 947-956.	0.3	1
49	Study of reversible kinetic models for alkali-catalyzed Jatropha curcas transesterification. Biomass Conversion and Biorefinery, 2016, 6, 61-70.	2.9	8
50	Extraction of oil from rubber seeds for biodiesel application: Optimization of parameters. Fuel, 2015, 150, 636-644.	3.4	93
51	Rubber Seed Oil Methyl Ester Synthesis, Engine Performance, and Emission Characteristics of Blends. Energy & Fuels, 2015, 29, 5136-5144.	2.5	12
52	Characterization of oil shale pore structure before and after pyrolysis by using X-ray micro CT. Fuel, 2013, 107, 547-554.	3.4	236
53	Alkali transesterification of linseed oil for biodiesel production. Fuel, 2013, 104, 553-560.	3.4	87
54	Compositional and kinetic analysis of oil shale pyrolysis using TGAâ€“MS. Fuel, 2012, 94, 333-341.	3.4	99

#	Article	IF	Citations
55	Detailed kinetic analysis of oil shale pyrolysis TGA data. AICHE Journal, 2012, 58, 505-515.	1.8	82
56	EVALUATION OF VARIOUS SHALE PROCESSING OPTIONS. Oil Shale, 2010, 27, 229.	0.5	3