

Japan J Trivedi

List of Publications by Year in descending order

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95
papers

1,743
citations

279487

23
h-index

344852

36
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96
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96
docs citations

96
times ranked

1069
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Elasticity During Viscoelastic Polymer Flooding: A Possible Mechanism of Increasing the Sweep Efficiency. <i>Journal of Canadian Petroleum Technology</i> , 2010, 49, 49-56.	2.3	100
2	Stable Silica Nanofluids of an Oilfield Polymer for Enhanced CO ₂ Absorption for Oilfield Applications. <i>Energy & Fuels</i> , 2018, 32, 12730-12741.	2.5	79
3	Impact of anionic surfactant on stability, viscoelastic moduli, and oil recovery of silica nanofluid in saline environment. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107634.	2.1	64
4	Modelling Underground Coal Gasification—A Review. <i>Energies</i> , 2015, 8, 12603-12668.	1.6	59
5	Single-step silica nanofluid for improved carbon dioxide flow and reduced formation damage in porous media for carbon utilization. <i>Energy</i> , 2020, 197, 117276.	4.5	58
6	New Insight on Carbonate-Heavy-Oil Recovery: Pore-Scale Mechanisms of Post-Solvent Carbon Dioxide Foam/Polymer-Enhanced-Foam Flooding. <i>SPE Journal</i> , 2016, 21, 1655-1668.	1.7	49
7	Evaluation of Polymer-Assisted Carbonated Water Injection in Sandstone Reservoir: Absorption Kinetics, Rheology, and Oil Recovery Results. <i>Energy & Fuels</i> , 2019, 33, 5438-5451.	2.5	47
8	Oil Recovery and Sequestration Potential of Naturally Fractured Reservoirs During CO ₂ Injection. <i>Energy & Fuels</i> , 2009, 23, 4025-4036.	2.5	46
9	Visual Confirmation of the Elasticity Dependence of Unstable Secondary Polymer Floods. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 6234-6241.	1.8	46
10	Novel viscoelastic model for predicting the synthetic polymer's viscoelastic behavior in porous media using direct extensional rheological measurements. <i>Fuel</i> , 2019, 235, 218-226.	3.4	46
11	Effect of single-step silica nanoparticle on rheological characterization of surfactant based CO ₂ foam for effective carbon utilization in subsurface applications. <i>Journal of Molecular Liquids</i> , 2021, 341, 116905.	2.3	46
12	Post-Surfactant CO ₂ Foam/Polymer-Enhanced Foam Flooding for Heavy Oil Recovery: Pore-Scale Visualization in Fractured Micromodel. <i>Transport in Porous Media</i> , 2016, 113, 717-733.	1.2	40
13	Efficiency of diffusion controlled miscible displacement in fractured porous media. <i>Transport in Porous Media</i> , 2008, 71, 379-394.	1.2	39
14	CO ₂ microbubbles—A potential fluid for enhanced oil recovery: Bulk and porous media studies. <i>Journal of Petroleum Science and Engineering</i> , 2016, 138, 160-173.	2.1	35
15	Application of Organic Alkali for Heavy-Oil Enhanced Oil Recovery (EOR), in Comparison with Inorganic Alkali. <i>Energy & Fuels</i> , 2016, 30, 4583-4595.	2.5	34
16	Capillary breakup extensional rheometry of associative and hydrolyzed polyacrylamide polymers for oil recovery applications. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46253.	1.3	33
17	Understanding the flow behaviour of copolymer and associative polymers in porous media using extensional viscosity characterization: Effect of hydrophobic association. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 2498-2508.	0.9	32
18	Static and Dynamic Performance of Wet Foam and Polymer-Enhanced Foam in the Presence of Heavy Oil. <i>Colloids and Interfaces</i> , 2018, 2, 38.	0.9	31

#	ARTICLE	IF	CITATIONS
19	Integrated Characterization of Hydraulically Fractured Shale-Gas Reservoirsâ€™ Production History Matching. SPE Reservoir Evaluation and Engineering, 2015, 18, 481-494.	1.1	30
20	History matching and uncertainty quantification of discrete fracture network models in fractured reservoirs. Journal of Petroleum Science and Engineering, 2017, 152, 21-32.	2.1	30
21	Experimental and numerical modeling of the mass transfer between rock matrix and fracture. Chemical Engineering Journal, 2009, 146, 194-204.	6.6	29
22	Extensional Effects during Viscoelastic Polymer Flooding: Understanding Unresolved Challenges. SPE Journal, 2020, 25, 1827-1841.	1.7	29
23	Does Polymer's Viscoelasticity Influence Heavy-Oil Sweep Efficiency and Injectivity at 1 ft/D?. SPE Reservoir Evaluation and Engineering, 2020, 23, 446-462.	1.1	28
24	Reservoir Geological Uncertainty Reduction: an Optimization-Based Method Using Multiple Static Measures. Mathematical Geosciences, 2015, 47, 373-396.	1.4	25
25	Scaling miscible displacement in fractured porous media using dimensionless groups. Journal of Petroleum Science and Engineering, 2008, 61, 58-66.	2.1	23
26	Efficiency Analysis of Greenhouse Gas Sequestration during Miscible CO ₂ Injection in Fractured Oil Reservoirs. Environmental Science & Technology, 2008, 42, 5473-5479.	4.6	23
27	On the Effect of Polymer Elasticity on Secondary and Tertiary Oil Recovery. Industrial & Engineering Chemistry Research, 2013, 52, 18421-18428.	1.8	23
28	Adsorption Behavior of CO ₂ in Coal and Coal Char. Energy & Fuels, 2014, 28, 5241-5251.	2.5	23
29	An experimental evaluation of low salinity water mechanisms in a typical Brazilian sandstone and light crude oil with low acid/basic number. Fuel, 2020, 273, 117694.	3.4	23
30	Effect of Elasticity During Viscoelastic Polymer Flooding: A Possible Mechanism of Increasing the Sweep Efficiency. , 2010, , .		22
31	The comparison study of IFT and consumption behaviors between organic alkali and inorganic alkali. Journal of Petroleum Science and Engineering, 2016, 147, 528-535.	2.1	22
32	Investigation of near-wall turbulence in relation to polymer rheology. Physics of Fluids, 2018, 30, 125111.	1.6	20
33	CO ₂ Foam and CO ₂ Polymer Enhanced Foam for Heavy Oil Recovery and CO ₂ Storage. Energies, 2020, 13, 5735.	1.6	20
34	Quantification of <i>Sor</i> Reduction during Polymer Flooding Using Extensional Capillary Number. SPE Journal, 2021, 26, 1469-1498.	1.7	20
35	Evaluation of foam generated with the hydrocarbon solvent for extra-heavy oil recovery from fractured porous media: Pore-scale visualization. Journal of Petroleum Science and Engineering, 2017, 157, 1170-1178.	2.1	18
36	Experimental Investigations on the Flow Dynamics and Abandonment Pressure for CO ₂ Sequestration and Oil Recovery in Artificially Fractured Cores. Journal of Canadian Petroleum Technology, 2010, 49, 22-27.	2.3	17

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37	Initial Sampling of Ensemble for Steam-Assisted-Gravity-Drainage-Reservoir History Matching. Journal of Canadian Petroleum Technology, 2015, 54, 424-441.	2.3	17
38	Dynamic Behavior of Asphaltene Deposition and Distribution Pattern in Fractured Porous Media during Hydrocarbon Solvent Injection: Pore-Level Observations. Energy & Fuels, 2017, 31, 9067-9079.	2.5	17
39	Optimization of Steam Injection for Heavy Oil Reservoirs Using Reinforcement Learning. , 2018, , .		17
40	Influence of coal properties on the CO ₂ adsorption capacity of coal gasification residues. Energy Science and Engineering, 2018, 6, 321-335.	1.9	17
41	Importance of Distributed Temperature Sensor Data for Steam Assisted Gravity Drainage Reservoir Characterization and History Matching Within Ensemble Kalman Filter Framework. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	1.4	16
42	Acid Gas Sequestration During Tertiary Oil Recovery: Optimal Injection Strategies and Importance of Operational Parameters. Journal of Canadian Petroleum Technology, 2007, 46, .	2.3	14
43	Polymer Screening Criteria for EOR Application - A Rheological Characterization Approach. , 2011, , .		14
44	Proxy Modeling of the Production Profiles of SAGD Reservoirs Based on System Identification. Industrial & Engineering Chemistry Research, 2015, 54, 8356-8367.	1.8	14
45	Abiotic streamers in a microfluidic system. Soft Matter, 2017, 13, 8698-8705.	1.2	14
46	Optimization of steam injection in SAGD using reinforcement learning. Journal of Petroleum Science and Engineering, 2021, 206, 108735.	2.1	14
47	Air Foams for Mobility Control and Subsurface Storage of Hydrogen in Porous Media: An Experimental Study. Energy & Fuels, 2022, 36, 5036-5046.	2.5	14
48	Numerical assessment of the maximum operating pressure for SAGD projects by considering the intrinsic shale anisotropy. Journal of Petroleum Science and Engineering, 2017, 148, 10-20.	2.1	13
49	Real-time feedback control of SAGD wells using model predictive control to optimize steam chamber development under uncertainty. Canadian Journal of Chemical Engineering, 2018, 96, 1290-1305.	0.9	13
50	Extensional Rheological Measurements of Surfactant-Polymer Mixtures. ACS Omega, 2020, 5, 30787-30798.	1.6	12
51	Characterization of Non-Gaussian Geologic Facies Distribution Using Ensemble Kalman Filter with Probability Weighted Re-Sampling. Mathematical Geosciences, 2015, 47, 193-225.	1.4	11
52	New Insight on Carbonate Heavy Oil Recovery: Pore Scale Mechanisms of Solvent Alternating CO ₂ Foam/Polymer Enhanced Foam Flooding. , 2015, , .		11
53	Injectivity Behavior of Copolymer and Associative Polymers Decoded Using Extensional Viscosity Characterization: Effect of Hydrophobic Association. , 2017, , .		11
54	Characterization of Ultrahigh-Molecular-Weight Oilfield Polyacrylamides Under Different pH Environments by Use of Asymmetrical-Flow Field-Flow Fractionation and Multiangle-Light-Scattering Detector. SPE Journal, 2018, 23, 48-65.	1.7	11

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55	Characterization of coâ€and postâ€hydrolyzed polyacrylamide molecular weight and radius distribution under saline environment. Journal of Applied Polymer Science, 2021, 138, 50616.	1.3	11
56	Extensional rheological data from ex-situ measurements for predicting porous media behaviour of the viscoelastic EOR polymers. Data in Brief, 2018, 20, 293-305.	0.5	10
57	Low Salinity Water Injection in a Clastic Reservoir in Northeast Brazil: An Experimental Case Study. , 2018, , .		10
58	Assessment of polymer based carbonation in weak/strong alkaline media for energy production and carbon storage: An approach to address carbon emissions. Journal of Cleaner Production, 2021, 328, 129628.	4.6	10
59	Estimation of Facies Boundaries Using Categorical Indicators with P-Field Simulation and Ensemble Kalman Filter (EnKF). Natural Resources Research, 2015, 24, 121-138.	2.2	9
60	Application of polynomial chaos theory as an accurate and computationally efficient proxy model for heterogeneous steam-assisted gravity drainage reservoirs. Energy Science and Engineering, 2017, 5, 270-289.	1.9	9
61	Pressure Analysis for Volume Fracturing Vertical Well considering Low-Velocity Non-Darcy Flow and Stress Sensitivity. Geofluids, 2019, 2019, 1-10.	0.3	8
62	Pore-scale flow simulation of supercritical CO2 and oil flow for simultaneous CO2 geo-sequestration and enhanced oil recovery. Environmental Science and Pollution Research, 2022, 29, 76003-76025.	2.7	8
63	Improving Characterization and History Matching Using Entropy Weighted Ensemble Kalman Filter for Non-Gaussian Distributions. , 2011, , .		7
64	On the Construction of an Experimentally Based Set of Equations to Describe Cocurrent and Countercurrent, Two-Phase Flow of Immiscible Fluids Through Porous Media. Transport in Porous Media, 2013, 99, 251-271.	1.2	7
65	Real-Time Production Optimization of Steam-Assisted-Gravity-Drainage Reservoirs Using Adaptive and Gain-Scheduled Model-Predictive Control: An Application to a Field Model. SPE Production and Operations, 2019, 34, 72-89.	0.4	7
66	Real-time steam allocation workflow using machine learning for digital heavy oil reservoirs. Journal of Petroleum Science and Engineering, 2021, 199, 108168.	2.1	7
67	Effect of Various Classes of Surfactants on Interfacial Tension Reduction and Wettability Alteration on Smart-Water-Surfactant Systems. Energy & Fuels, 2022, 36, 251-261.	2.5	7
68	Integration of Production Data for Estimation of Natural Fracture Properties in Tight Gas Reservoirs Using Ensemble Kalman Filter. , 2012, , .		6
69	Evaluating the Performance of CO2 Foam and CO2 Polymer Enhanced Foam for Heavy Oil Recovery: Laboratory Experiments in Unconsolidated and Consolidated Porous Media. , 2018, , .		6
70	Synergistic Behavior of Anionic Surfactants and Hydrolyzed Polyacrylamide under an Extensional Field: Effect of Hydrophobicity. Langmuir, 2021, 37, 13645-13653.	1.6	6
71	Ensemble Kalman Filter Predictor Bias Correction Method for Non-Gaussian Geological Facies Detection. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 163-170.	0.4	5
72	SAGD Real-Time Production Optimization Using Adaptive and Gain-Scheduled Model-Predictive-Control: A Field Case Study. , 2017, , .		5

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73	Effect of water saturation on the role of polymer elasticity during heavy oil recovery. Journal of Dispersion Science and Technology, 2020, 41, 1265-1273.	1.3	5
74	Does Polymer's Viscoelasticity Influence Heavy Oil Sweep Efficiency and Injectivity at 1ft/Day?. , 2018, , .		4
75	Performance of ensemble Kalman filter and Markov chain Monte Carlo under uncertainty in forecast model. Journal of Petroleum Science and Engineering, 2019, 177, 415-431.	2.1	4
76	Data-Driven Steam Optimization for SAGD. , 2020, , .		4
77	Theoretical Development of a Novel Equation for Dynamic Spontaneous Imbibition with Variable Inlet Saturation and Interfacial Coupling Effects. Transport in Porous Media, 2011, 86, 705-717.	1.2	3
78	Design and Development of Aqueous Colloidal Gas Aphrons for Enhanced Oil Recovery Applications. , 2012, , .		3
79	Sensitivity Analysis for Dynamic Spontaneous Imbibition with Variable Inlet Saturation and Interfacial Coupling Effects. Transport in Porous Media, 2013, 96, 397-417.	1.2	3
80	Numerical assessment of the maximum operating pressure for SAGD projects considering the effects of anisotropy and natural fractures. Journal of Petroleum Science and Engineering, 2017, 157, 196-206.	2.1	3
81	Investigation of alkali and salt resistant copolymer of acrylic acid and <i>N</i> -vinyl-2-pyrrolidinone for medium viscosity oil recovery. Canadian Journal of Chemical Engineering, 2022, 100, 1427-1438.	0.9	3
82	Characterization of Ultra-High Molecular Weight Oilfield Polyacrylamides Under Different pH Environments Using Asymmetrical Flow FFF and Multi-Angle Light Scattering Detector. , 2015, , .		2
83	Numerical Assessment of the Maximum Operating Pressure for Anisotropic Caprock in SAGD Projects. , 2015, , .		2
84	Pore-Scale Observation of Solvent Based Foam During Heavy Oil Recovery. , 2016, , .		2
85	Nonlinear Model Predictive Control of Steam-Assisted-Gravity-Drainage Well Operations for Real-Time Production Optimization. SPE Production and Operations, 2020, 35, 564-578.	0.4	2
86	Synthesis and preparation of poly (AM-co-AMPS)/GO nanocomposites hydrogel as a rheology modifier and fluid loss controller for use in oil well cementing. Journal of Dispersion Science and Technology, 2023, 44, 1738-1749.	1.3	2
87	Numerical Solution of Equation for Dynamic, Spontaneous Imbibition with Variable Inlet Saturation and Interfacial Coupling Effects. Transport in Porous Media, 2011, 87, 309-333.	1.2	1
88	MODIFIED TRANSPORT EQUATIONS FOR THE THREE-PHASE FLOW OF IMMISCIBLE, INCOMPRESSIBLE FLUIDS THROUGH WATER-WET POROUS MEDIA. Journal of Porous Media, 2012, 15, 123-136.	1.0	1
89	Numerical Assessment of the Maximum Operating Pressure for SAGD Projects Considering the Effects of Anisotropy and Natural Fractures in the Caprock. , 2016, , .		1
90	Polynomial-Chaos-Expansion Based Integrated Dynamic Modelling Workflow for Computationally Efficient Reservoir Characterization: A Field Case Study. , 2017, , .		1

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91	Dynamic Behavior of Asphaltene Precipitation and Distribution Pattern in Carbonate Reservoirs During Solvent Injection: Pore-Scale Observations. , 2017, , .		0
92	Layer regrouping optimization for multilayer heterogeneous reservoirs at a high water cut stage. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	0
93	Comparison of CO2Storage Potential in Pyrolysed Coal Char of different Coal Ranks. , 0, , 293-304.		0
94	Data-Driven Real-Time Optimal Steam Allocation Strategy for Heavy Oil Reservoirs: A Field Case Study. , 2019, , .		0
95	Governing mechanism of nanofluids for CO2 EOR. , 2022, , 195-213.		0