

# 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  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1069  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Investigation of alkali and salt resistant copolymer of acrylic acid and N-vinyl-2-pyrrolidinone for medium viscosity oil recovery. Canadian Journal of Chemical Engineering, 2022, 100, 1427-1438.	0.9	3
3	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
4	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
5	Pore-scale flow simulation of supercritical CO <sub>2</sub> and oil flow for simultaneous CO <sub>2</sub> geo-sequestration and enhanced oil recovery. Environmental Science and Pollution Research, 2022, 29, 76003-76025.	2.7	8
6	Governing mechanism of nanofluids for CO <sub>2</sub> EOR. , 2022, , 195-213.		0
7	Quantification of Sorption Reduction during Polymer Flooding Using Extensional Capillary Number. SPE Journal, 2021, 26, 1469-1498.	1.7	20
8	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
9	Characterization of and post-hydrolyzed polyacrylamide molecular weight and radius distribution under saline environment. Journal of Applied Polymer Science, 2021, 138, 50616.	1.3	11
10	Effect of single-step silica nanoparticle on rheological characterization of surfactant based CO <sub>2</sub> foam for effective carbon utilization in subsurface applications. Journal of Molecular Liquids, 2021, 341, 116905.	2.3	46
11	Optimization of steam injection in SAGD using reinforcement learning. Journal of Petroleum Science and Engineering, 2021, 206, 108735.	2.1	14
12	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
13	Synergistic Behavior of Anionic Surfactants and Hydrolyzed Polyacrylamide under an Extensional Field: Effect of Hydrophobicity. Langmuir, 2021, 37, 13645-13653.	1.6	6
14	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
15	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
16	Impact of anionic surfactant on stability, viscoelastic moduli, and oil recovery of silica nanofluid in saline environment. Journal of Petroleum Science and Engineering, 2020, 195, 107634.	2.1	64
17	Extensional Rheological Measurements of Surfactant-Polymer Mixtures. ACS Omega, 2020, 5, 30787-30798.	1.6	12
18	CO <sub>2</sub> Foam and CO <sub>2</sub> Polymer Enhanced Foam for Heavy Oil Recovery and CO <sub>2</sub> Storage. Energies, 2020, 13, 5735.	1.6	20

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19	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
20	Data-Driven Steam Optimization for SAGD. , 2020, , .		4
21	Extensional Effects during Viscoelastic Polymer Flooding: Understanding Unresolved Challenges. SPE Journal, 2020, 25, 1827-1841.	1.7	29
22	Single-step silica nanofluid for improved carbon dioxide flow and reduced formation damage in porous media for carbon utilization. Energy, 2020, 197, 117276.	4.5	58
23	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
24	Layer regrouping optimization for multilayer heterogeneous reservoirs at a high water cut stage. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	0
25	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
26	Evaluation of Polymer-Assisted Carbonated Water Injection in Sandstone Reservoir: Absorption Kinetics, Rheology, and Oil Recovery Results. Energy & Fuels, 2019, 33, 5438-5451.	2.5	47
27	Pressure Analysis for Volume Fracturing Vertical Well considering Low-Velocity Non-Darcy Flow and Stress Sensitivity. Geofluids, 2019, 2019, 1-10.	0.3	8
28	Novel viscoelastic model for predicting the synthetic polymer's viscoelastic behavior in porous media using direct extensional rheological measurements. Fuel, 2019, 235, 218-226.	3.4	46
29	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
30	Data-Driven Real-Time Optimal Steam Allocation Strategy for Heavy Oil Reservoirs: A Field Case Study. , 2019, , .		0
31	Understanding the flow behaviour of copolymer and associative polymers in porous media using extensional viscosity characterization: Effect of hydrophobic association. Canadian Journal of Chemical Engineering, 2018, 96, 2498-2508.	0.9	32
32	Capillary breakup extensional rheometry of associative and hydrolyzed polyacrylamide polymers for oil recovery applications. Journal of Applied Polymer Science, 2018, 135, 46253.	1.3	33
33	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
34	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
35	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
36	Static and Dynamic Performance of Wet Foam and Polymer-Enhanced Foam in the Presence of Heavy Oil. Colloids and Interfaces, 2018, 2, 38.	0.9	31

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37	Investigation of near-wall turbulence in relation to polymer rheology. <i>Physics of Fluids</i> , 2018, 30, 125111.	1.6	20
38	Optimization of Steam Injection for Heavy Oil Reservoirs Using Reinforcement Learning. , 2018, , .		17
39	Does Polymer's Viscoelasticity Influence Heavy Oil Sweep Efficiency and Injectivity at 1ft/Day?. , 2018, , .		4
40	Extensional rheological data from ex-situ measurements for predicting porous media behaviour of the viscoelastic EOR polymers. <i>Data in Brief</i> , 2018, 20, 293-305.	0.5	10
41	Stable Silica Nanofluids of an Oilfield Polymer for Enhanced CO <sub>2</sub> Absorption for Oilfield Applications. <i>Energy &amp; Fuels</i> , 2018, 32, 12730-12741.	2.5	79
42	Low Salinity Water Injection in a Clastic Reservoir in Northeast Brazil: An Experimental Case Study. , 2018, , .		10
43	Influence of coal properties on the CO <sub>2</sub> adsorption capacity of coal gasification residues. <i>Energy Science and Engineering</i> , 2018, 6, 321-335.	1.9	17
44	Dynamic Behavior of Asphaltene Precipitation and Distribution Pattern in Carbonate Reservoirs During Solvent Injection: Pore-Scale Observations. , 2017, , .		0
45	History matching and uncertainty quantification of discrete fracture network models in fractured reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2017, 152, 21-32.	2.1	30
46	Abiotic streamers in a microfluidic system. <i>Soft Matter</i> , 2017, 13, 8698-8705.	1.2	14
47	Polynomial-Chaos-Expansion Based Integrated Dynamic Modelling Workflow for Computationally Efficient Reservoir Characterization: A Field Case Study. , 2017, , .		1
48	Dynamic Behavior of Asphaltene Deposition and Distribution Pattern in Fractured Porous Media during Hydrocarbon Solvent Injection: Pore-Level Observations. <i>Energy &amp; Fuels</i> , 2017, 31, 9067-9079.	2.5	17
49	Numerical assessment of the maximum operating pressure for SAGD projects considering the effects of anisotropy and natural fractures. <i>Journal of Petroleum Science and Engineering</i> , 2017, 157, 196-206.	2.1	3
50	Evaluation of foam generated with the hydrocarbon solvent for extra-heavy oil recovery from fractured porous media: Pore-scale visualization. <i>Journal of Petroleum Science and Engineering</i> , 2017, 157, 1170-1178.	2.1	18
51	SAGD Real-Time Production Optimization Using Adaptive and Gain-Scheduled Model-Predictive-Control: A Field Case Study. , 2017, , .		5
52	Injectivity Behavior of Copolymer and Associative Polymers Decoded Using Extensional Viscosity Characterization: Effect of Hydrophobic Association. , 2017, , .		11
53	Numerical assessment of the maximum operating pressure for SAGD projects by considering the intrinsic shale anisotropy. <i>Journal of Petroleum Science and Engineering</i> , 2017, 148, 10-20.	2.1	13
54	Application of polynomial chaos theory as an accurate and computationally efficient proxy model for heterogeneous steam-assisted gravity drainage reservoirs. <i>Energy Science and Engineering</i> , 2017, 5, 270-289.	1.9	9

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55	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
56	Post-Surfactant $\text{CO}_2$ Foam/Polymer-Enhanced Foam Flooding for Heavy Oil Recovery: Pore-Scale Visualization in Fractured Micromodel. Transport in Porous Media, 2016, 113, 717-733.	1.2	40
57	Application of Organic Alkali for Heavy-Oil Enhanced Oil Recovery (EOR), in Comparison with Inorganic Alkali. Energy & Fuels, 2016, 30, 4583-4595.	2.5	34
58	New Insight on Carbonate-Heavy-Oil Recovery: Pore-Scale Mechanisms of Post-Solvent Carbon Dioxide Foam/Polymer-Enhanced-Foam Flooding. SPE Journal, 2016, 21, 1655-1668.	1.7	49
59	Numerical Assessment of the Maximum Operating Pressure for SAGD Projects Considering the Effects of Anisotropy and Natural Fractures in the Caprock. , 2016, , .		1
60	Pore-Scale Observation of Solvent Based Foam During Heavy Oil Recovery. , 2016, , .		2
61	CO <sub>2</sub> microbubbles – A potential fluid for enhanced oil recovery: Bulk and porous media studies. Journal of Petroleum Science and Engineering, 2016, 138, 160-173.	2.1	35
62	Characterization of Ultra-High Molecular Weight Oilfield Polyacrylamides Under Different pH Environments Using Asymmetrical Flow FFF and Multi-Angle Light Scattering Detector. , 2015, , .		2
63	Integrated Characterization of Hydraulically Fractured Shale-Gas Reservoirs – Production History Matching. SPE Reservoir Evaluation and Engineering, 2015, 18, 481-494.	1.1	30
64	Initial Sampling of Ensemble for Steam-Assisted-Gravity-Drainage-Reservoir History Matching. Journal of Canadian Petroleum Technology, 2015, 54, 424-441.	2.3	17
65	Modelling Underground Coal Gasification – A Review. Energies, 2015, 8, 12603-12668.	1.6	59
66	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
67	Reservoir Geological Uncertainty Reduction: an Optimization-Based Method Using Multiple Static Measures. Mathematical Geosciences, 2015, 47, 373-396.	1.4	25
68	Numerical Assessment of the Maximum Operating Pressure for Anisotropic Caprock in SAGD Projects. , 2015, , .		2
69	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
70	New Insight on Carbonate Heavy Oil Recovery: Pore Scale Mechanisms of Solvent Alternating CO <sub>2</sub> Foam/Polymer Enhanced Foam Flooding. , 2015, , .		11
71	Proxy Modeling of the Production Profiles of SAGD Reservoirs Based on System Identification. Industrial & Engineering Chemistry Research, 2015, 54, 8356-8367.	1.8	14
72	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

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73	Adsorption Behavior of CO <sub>2</sub> in Coal and Coal Char. Energy & Fuels, 2014, 28, 5241-5251.	2.5	23
74	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
75	On the Effect of Polymer Elasticity on Secondary and Tertiary Oil Recovery. Industrial & Engineering Chemistry Research, 2013, 52, 18421-18428.	1.8	23
76	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
77	Visual Confirmation of the Elasticity Dependence of Unstable Secondary Polymer Floods. Industrial & Engineering Chemistry Research, 2013, 52, 6234-6241.	1.8	46
78	Design and Development of Aqueous Colloidal Gas Aphrons for Enhanced Oil Recovery Applications. , 2012, , .		3
79	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
80	Integration of Production Data for Estimation of Natural Fracture Properties in Tight Gas Reservoirs Using Ensemble Kalman Filter. , 2012, , .		6
81	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
82	Improving Characterization and History Matching Using Entropy Weighted Ensemble Kalman Filter for Non-Gaussian Distributions. , 2011, , .		7
83	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
84	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
85	Polymer Screening Criteria for EOR Application - A Rheological Characterization Approach. , 2011, , .		14
86	Experimental Investigations on the Flow Dynamics and Abandonment Pressure for CO <sub>2</sub> Sequestration and Oil Recovery in Artificially Fractured Cores. Journal of Canadian Petroleum Technology, 2010, 49, 22-27.	2.3	17
87	Effect of Elasticity During Viscoelastic Polymer Flooding: A Possible Mechanism of Increasing the Sweep Efficiency. Journal of Canadian Petroleum Technology, 2010, 49, 49-56.	2.3	100
88	Effect of Elasticity During Viscoelastic Polymer Flooding: A Possible Mechanism of Increasing the Sweep Efficiency. , 2010, , .		22
89	Experimental and numerical modeling of the mass transfer between rock matrix and fracture. Chemical Engineering Journal, 2009, 146, 194-204.	6.6	29
90	Oil Recovery and Sequestration Potential of Naturally Fractured Reservoirs During CO <sub>2</sub> Injection. Energy & Fuels, 2009, 23, 4025-4036.	2.5	46

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91	Efficiency of diffusion controlled miscible displacement in fractured porous media. Transport in Porous Media, 2008, 71, 379-394.	1.2	39
92	Scaling miscible displacement in fractured porous media using dimensionless groups. Journal of Petroleum Science and Engineering, 2008, 61, 58-66.	2.1	23
93	Efficiency Analysis of Greenhouse Gas Sequestration during Miscible CO <sub>2</sub> Injection in Fractured Oil Reservoirs. Environmental Science & Technology, 2008, 42, 5473-5479.	4.6	23
94	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
95	Comparison of CO <sub>2</sub> Storage Potential in Pyrolysed Coal Char of different Coal Ranks. , 0, , 293-304.		0