

Tayfun

List of Publications by Year in descending order

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249
papers

6,981
citations

53751

45
h-index

102432

66
g-index

250
all docs

250
docs citations

250
times ranked

3517
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the mechanics of heavy-oil recovery by steam injection with chemical additives. Journal of Petroleum Science and Engineering, 2022, 208, 109717.	2.1	33
2	Viscous fingering during heavy-oil displacement by chemical solutions: Emulsion instability and partial-miscibility. Journal of Petroleum Science and Engineering, 2022, 209, 109954.	2.1	3
3	A Review on the Use of Chemicals as Steam Additives for Thermal Oil Recovery Applications. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	1.4	2
4	Mechanics of SAGD Efficiency Improvement Using Combination of Chemicals: An Experimental Analysis through 2D Visual Models. SPE Reservoir Evaluation and Engineering, 2021, 24, 80-97.	1.1	2
5	Can we generate stable pickering emulsions activating naturally occurring nanoparticles in the reservoir for cost effective heavy-oil recovery?. Fuel, 2021, 283, 118916.	3.4	9
6	Mitigating greenhouse gas intensity through new generation techniques during heavy oil recovery. Journal of Cleaner Production, 2021, 286, 124980.	4.6	16
7	New Formulation of Tertiary Amines for Thermally Stable and Cost-Effective Chemical Additive: Synthesis Procedure and Displacement Tests for High-Temperature Tertiary Recovery in Steam Applications. SPE Journal, 2021, 26, 1572-1589.	1.7	4
8	Revisiting Kelvin equation and Peng-Robinson equation of state for accurate modeling of hydrocarbon phase behavior in nano capillaries. Scientific Reports, 2021, 11, 6573.	1.6	7
9	Tertiary Recovery Improvement of Steam Injection Using Chemical Additives: Pore Scale Understanding of Challenges and Solutions Through Visual Experiments. , 2021, , .		2
10	Propagation and Entrapment of Hydrocarbons in Porous Media under Capillarity Controlled Phase-Alteration Conditions: A Visual Microfluidics Analysis. ACS Applied Materials & Interfaces, 2021, 13, 27612-27621.	4.0	3
11	Effect of roughness on fluid flow and solute transport in a single fracture: A review of recent developments, current trends, and future research. Journal of Natural Gas Science and Engineering, 2021, 91, 103971.	2.1	21
12	Generation of pickering emulsions by activating natural asphaltenes as nano materials: An experimental analysis for cost-effective heavy-oil recovery. Journal of Molecular Liquids, 2021, 339, 116759.	2.3	10
13	Performance comparison of novel chemical agents in improving oil recovery from tight sands through spontaneous imbibition. Petroleum Science, 2020, 17, 409-418.	2.4	24
14	Optimal design of pickering emulsions for heavy-oil recovery improvement. Journal of Dispersion Science and Technology, 2020, 41, 2048-2062.	1.3	10
15	Effect of Temperature, Phase Change, and Chemical Additives on Wettability Alteration During Steam Applications in Sands and Carbonates. SPE Reservoir Evaluation and Engineering, 2020, 23, 292-310.	1.1	25
16	Testing the injection of air with methane as a new approach to reduce the cost of cold heavy oil recovery: An experimental analysis to determine optimal application conditions. Fuel, 2020, 265, 116954.	3.4	6
17	Heavy-oil recovery improvement by additives to steam injection: Identifying underlying mechanisms and chemical selection through visual experiments. Journal of Petroleum Science and Engineering, 2020, 188, 106897.	2.1	34
18	Use of Air with Methane in Cyclic Solvent Injection Applications for Improved Foam Stability and Cost Effective Heavy Oil Recovery. Energy & Fuels, 2020, 34, 278-293.	2.5	5

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19	A visual experimental study on proppants transport in rough vertical fractures. International Journal of Rock Mechanics and Minings Sciences, 2020, 134, 104446.	2.6	33
20	Comprehensive review on heavy-oil emulsions: Colloid science and practical applications. Chemical Engineering Science, 2020, 228, 115962.	1.9	45
21	Underlying physics of heavy oil recovery by gas injection: An experimental parametric analysis when oil exists in the form of oil based emulsion. Chemical Engineering Research and Design, 2020, 163, 192-203.	2.7	5
22	Thermodynamics of liquids in capillary medium. Journal of Fluid Mechanics, 2020, 905, .	1.4	6
23	New Formulation of Tertiary Amines for Thermally Stable and Cost-Effective Chemical Additive: Synthesis Procedure and Displacement Tests for High-Temperature Tertiary Recovery in Steam Applications. , 2020, , .		1
24	Effect of Wettability on Vaporization of Hydrocarbon Solvents in Nano Capillaries. , 2020, , .		2
25	Performance Comparison of Novel Chemical Agents for Mitigating Water-Blocking Problem in Tight Gas Sandstones. SPE Reservoir Evaluation and Engineering, 2020, 23, 1150-1158.	1.1	36
26	Determination of the effect of resin-coating on ceramic proppant settlement for optimal hydraulic fracturing applications. Powder Technology, 2020, 373, 109-117.	2.1	10
27	Initial screening of new generation chemicals using sandpack flooding tests for recovery improvement of gravity driven steam applications. Journal of Petroleum Science and Engineering, 2020, 194, 107462.	2.1	11
28	Stabilization of nickel nanoparticle suspensions with the aid of polymer and surfactant: static bottle tests and dynamic micromodel flow tests. Petroleum Science, 2020, 17, 1014-1024.	2.4	8
29	Dynamics of emulsion generation and stability during heavy oil displacement with chemicals and nanoparticles: Qualitative analysis using visual 2D data. Fuel, 2020, 270, 117502.	3.4	12
30	A visual experimental study: Resin-coated ceramic proppants transport within rough vertical models. Journal of Petroleum Science and Engineering, 2020, 191, 107142.	2.1	15
31	Reconsideration of Steam Additives to Improve Heavy-Oil Recovery Efficiency: Can New Generation Chemicals Be a Solution for Steam-Induced Unfavorable Wettability Alteration?. Energy & Fuels, 2020, 34, 8283-8300.	2.5	24
32	Mechanics of Foamy Oil during Methane-Based Cyclic Solvent Injection Process for Enhanced Heavy Oil Recovery: A Comprehensive Review. SPE Reservoir Evaluation and Engineering, 2020, 23, 1077-1092.	1.1	4
33	Philosophy of EOR. Journal of Petroleum Science and Engineering, 2020, 188, 106930.	2.1	47
34	Wettability State and Phase Distributions during Steam Injection with and without Chemical Additives: An Experimental Analysis Using Visual Micro-Models. , 2020, , .		4
35	Efficiency Improvement of Heavy-Oil Recovery by Steam-Assisted Gravity Drainage Injection Using New Generation Chemicals. Energy & Fuels, 2020, 34, 4433-4447.	2.5	14
36	Unravelling transport in complex natural fractures with fractal geometry: A comprehensive review and new insights. Journal of Hydrology, 2020, 587, 124937.	2.3	20

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37	Wettability State and Phase Distributions During Steam Injection with and without Chemical Additives: An Experimental Analysis Using Visual Micromodels. SPE Reservoir Evaluation and Engineering, 2020, 23, 1133-1149.	1.1	15
38	Impact of Divalent Ions on Heavy Oil Recovery by in situ Emulsification. Journal of Surfactants and Detergents, 2019, 22, 1371-1385.	1.0	13
39	Visual Analysis of SAGD with Chemical Additives. , 2019, , .		9
40	Revisiting Kelvin Equation for Accurate Modeling of Pore Scale Thermodynamics of Different Solvent Gases. , 2019, , .		3
41	Effect of injection parameters on proppant transport in rough vertical fractures: An experimental analysis on visual models. Journal of Petroleum Science and Engineering, 2019, 180, 380-395.	2.1	43
42	Revisiting Thomson equation for accurate modeling of pore scale thermodynamics of hydrocarbon solvents. Physics of Fluids, 2019, 31, 122004.	1.6	6
43	Changing interfacial tension and wettability using new generation chemicals and nano metal particles at elevated temperatures and pressures: An analysis through a new experimental design for heavy-oil recovery applications. Journal of Dispersion Science and Technology, 2019, 40, 1785-1794.	1.3	11
44	An experimental study to determine suitable injection strategies for water-alternating-solvent process in green and brownfields. Journal of Petroleum Science and Engineering, 2018, 165, 136-150.	2.1	4
45	Recovery Improvement by Chemical Additives to Steam Injection: Identifying Underlying Mechanisms Through Core and Visual Experiments. , 2018, , .		15
46	Optimization of methane use in cyclic solvent injection for heavy-oil recovery after primary production through experimental and numerical studies. Fuel, 2018, 214, 457-470.	3.4	23
47	Numerical Modeling of Heavy-Oil Recovery Using Electromagnetic Radiation/Hydraulic Fracturing Considering Thermal Expansion Effect. Journal of Heat Transfer, 2018, 140, .	1.2	2
48	Efficiency of heavy-oil/bitumen recovery from fractured carbonates by hot-solvent injection. Journal of Petroleum Science and Engineering, 2018, 165, 752-764.	2.1	8
49	Thermodynamics of Hydrocarbon Solvents at the Pore Scale During Hybrid Solvent-Thermal Application for Heavy-Oil Recovery. , 2018, , .		6
50	Use of Nickel Nanoparticles for Promoting Aquathermolysis Reaction During Cyclic Steam Stimulation. SPE Journal, 2018, 23, 145-156.	1.7	39
51	Microemulsion Flooding of Heavy Oil Using Biodiesel Under Cold Conditions. , 2018, , .		5
52	Use of Air with Different Solvents Mixtures for Improved Foam Stability and Cost Effective Heavy Oil Recovery. , 2018, , .		2
53	Experimental Study on the Effect of Injection Parameters on Proppant Transport in Rough Vertical Hydraulic Fractures. , 2018, , .		6
54	Use of air to improve the efficiency of foamy flow and reservoir pressurization in heavy oil recovery. Journal of Petroleum Science and Engineering, 2018, 170, 166-176.	2.1	10

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55	Can water-alternating-solvent injection be an option for efficient heavy-oil recovery?: An experimental analysis for different reservoir conditions. <i>Journal of Petroleum Science and Engineering</i> , 2018, 170, 485-496.	2.1	9
56	Effect of Temperature, Phase Change, and Chemical Additive on Wettability Alteration During Steam Applications in Sands and Carbonates. , 2018, , .		8
57	Comprehensive methodology for chemicals and nano materials screening for heavy oil recovery using microemulsion characterization. <i>Journal of Petroleum Science and Engineering</i> , 2018, 171, 1099-1112.	2.1	16
58	Fractal analysis of single-phase water and polymer solution flow at high rates in open and horizontally displaced rough fractures. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 92, 54-71.	2.6	13
59	Selection of New Generation Chemicals as Steam Additive for Cost Effective Heavy-Oil Recovery Applications. , 2017, , .		14
60	Recovery Improvement of Gravity Driven Steam Applications Using New Generation Chemical Additives. , 2017, , .		10
61	Retrieval of solvent injected during heavy-oil recovery: Pore scale micromodel experiments at variable temperature conditions. <i>International Journal of Heat and Mass Transfer</i> , 2017, 112, 837-849.	2.5	17
62	Use of new generation chemicals and nano materials in heavy-oil recovery: Visual analysis through micro fluidics experiments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 529, 346-355.	2.3	23
63	Effect of native and injected nano-particles on the efficiency of heavy oil recovery by radio frequency electromagnetic heating. <i>Journal of Petroleum Science and Engineering</i> , 2017, 153, 244-256.	2.1	53
64	Wettability Alteration of Heavy-Oil-Bitumen-Containing Carbonates by Use of Solvents, High-pH Solutions, and Nano/Ionic Liquids. <i>SPE Reservoir Evaluation and Engineering</i> , 2017, 20, 363-371.	1.1	44
65	Dynamics of diffusive and convective transport in porous media: A fractal analysis of 3-D images obtained by laser technology. <i>Chaos, Solitons and Fractals</i> , 2017, 95, 1-13.	2.5	5
66	Cost Effective EOR in Heavy-Oil Containing Sands by Gas Injection: Improvement of the Efficiency of Foamy Flow and Pressurization. , 2017, , .		5
67	Alteration of Interfacial Properties by Chemicals and Nanomaterials To Improve Heavy Oil Recovery at Elevated Temperatures. <i>Energy & Fuels</i> , 2017, 31, 11866-11883.	2.5	12
68	Percolation characteristics of solvent invasion in rough fractures under miscible conditions. <i>Journal of Contaminant Hydrology</i> , 2017, 205, 25-36.	1.6	2
69	Feasibility assessment of heavy-oil recovery by CO ₂ injection after cold production with sands: Lab-to-field scale modeling considering non-equilibrium foamy oil behavior. <i>Applied Energy</i> , 2017, 205, 615-625.	5.1	37
70	Effect of Fracture Roughness, Shear Displacement, Fluid Type, and Proppant on the Conductivity of a Single Fracture: A Visual and Quantitative Analysis. <i>SPE Reservoir Evaluation and Engineering</i> , 2017, 20, 446-470.	1.1	21
71	Experimental investigation of combined electromagnetic heating and solvent-assisted gravity drainage for heavy oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 2017, 154, 589-601.	2.1	35
72	Revisiting Thomson Equation for Accurate Modeling of Pore Scale Thermodynamics of Hydrocarbon Solvents. , 2017, , .		5

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73	A hybrid discrete/finite element modeling study of complex hydraulic fracture development for enhanced geothermal systems (EGS) in granitic basements. <i>Geothermics</i> , 2016, 64, 362-381.	1.5	59
74	Quantitative and visual analysis of proppant transport in rough fractures. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 1291-1307.	2.1	61
75	Solvent Selection Criteria and Optimal Application Conditions for Heavy-Oil/Bitumen Recovery at Elevated Temperatures: A Review and Comparative Analysis. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2016, 138, .	1.4	33
76	Modeling Heavy-Oil Recovery Using Electromagnetic Radiation/Hydraulic Fracturing Considering Adiabatic Effect and Thermal Expansion. , 2016, , .		1
77	Efficiency of Heavy Oil/Bitumen Recovery from Fractured Carbonates by Hot-Solvent Injection. , 2016, , .		4
78	A Sensitivity Analysis of Cyclic Solvent Stimulation for Post-CHOPS EOR: Application on an Actual Field Case. <i>SPE Economics and Management</i> , 2016, 8, 078-089.	0.8	17
79	Selection of Optimal Solvent Type for High-Temperature Solvent Applications in Heavy-Oil and Bitumen Recovery. <i>Energy & Fuels</i> , 2016, 30, 2563-2573.	2.5	12
80	Low temperature air injection with solvents in heavy-oil containing naturally fractured reservoirs: Effects of matrix/fracture properties and temperature on recovery. <i>Fuel</i> , 2016, 179, 376-390.	3.4	16
81	Combining solvent injection, electromagnetic heating, and hydraulic fracturing for multistage heavy oil recovery. <i>Journal of Electromagnetic Waves and Applications</i> , 2016, 30, 207-224.	1.0	9
82	Multi-branched growth of fractures in shales for effective reservoir contact: A particle based distinct element modeling study. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 35, 509-521.	2.1	5
83	Solvent-Selection Criteria Based on Diffusion Rate and Mixing Quality for Steam/Solvent Applications in Heavy-Oil and Bitumen Recovery. <i>SPE Reservoir Evaluation and Engineering</i> , 2016, 19, 620-632.	1.1	8
84	Selection of Proper Chemicals to Improve the Performance of Steam Based Thermal Applications in Sands and Carbonates. , 2016, , .		10
85	Laboratory Measurements and Numerical Simulation of Cyclic Solvent Stimulation with a Thermally Aided Solvent Retrieval Phase in the Presence of Wormholes after Cold Heavy Oil Production with Sand. <i>Energy & Fuels</i> , 2016, 30, 9181-9192.	2.5	10
86	Hot Solvent Injection for Heavy Oil/Bitumen Recovery from Fractured Reservoirs: An Experimental Approach To Determine Optimal Application Conditions. <i>Energy & Fuels</i> , 2016, 30, 2780-2790.	2.5	26
87	Experimental Investigation of Combined Electromagnetic Heating and Solvent Assisted Gravity Drainage for Heavy Oil Recovery. , 2016, , .		9
88	A Critical Analysis of the Relationship Between Statistical- and Fractal-Fracture-Network Characteristics and Effective Fracture-Network Permeability. <i>SPE Reservoir Evaluation and Engineering</i> , 2016, 19, 494-510.	1.1	12
89	Pore-Scale Investigations on the Dynamics of Gravity-Driven Steam-Displacement Process for Heavy-Oil Recovery and Development of Residual Oil Saturation: A 2D Visual Analysis. <i>SPE Journal</i> , 2016, 21, 1943-1959.	1.7	20
90	Three dimensional visualization of solvent chamber growth during the VAPEX processes: An experimental approach using laser. <i>Journal of Petroleum Science and Engineering</i> , 2016, 142, 46-67.	2.1	9

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91	Bitumen Recovery from Carbonates by a Modified SOS-FR (Steam-Over-Solvent Injection in Fractured) Tj ETQq1 1 0,784314 rgBT /Over	2.5	16
92	Experimental Investigation of Wettability Alteration in Oil-Wet Reservoirs Containing Heavy Oil. SPE Reservoir Evaluation and Engineering, 2016, 19, 633-644.	1.1	27
93	Transmissivity of aligned and displaced tensile fractures in granitic rocks during cyclic loading. International Journal of Rock Mechanics and Minings Sciences, 2016, 87, 69-84.	2.6	34
94	Pore scale visual investigations on solvent retrieval during oil recovery at elevated temperatures: A micromodel study. Chemical Engineering Research and Design, 2016, 106, 59-73.	2.7	12
95	3-D visualization of diffusive and convective solvent transport processes in oil-saturated porous media using laser technology. Journal of Visualization, 2016, 19, 615-629.	1.1	7
96	Field scale modeling of CHOPS and solvent/thermal based post CHOPS EOR applications considering non-equilibrium foamy oil behavior and realistic representation of wormholes. Journal of Petroleum Science and Engineering, 2016, 137, 144-156.	2.1	23
97	Gas (air)â€“heavy oil displacement in capillary media at high temperatures: A CFD approach to model microfluidics experiments. Chemical Engineering Science, 2016, 140, 299-308.	1.9	13
98	Field-Scale Deformation Analysis of Cyclic Solvent Stimulation in Thin Unconsolidated Heavy-Oil Reservoirs With Developed Wormhole Network. Journal of Canadian Petroleum Technology, 2015, 54, 341-350.	2.3	7
99	Bitumen Recovery from Carbonates by Modified SOS-FR (Steam-Over-Solvent Injection in Fractured) Tj ETQq1 1 0.784314 rgBT /Over	2.5	16
100	Wettability Alteration of Heavy-Oil/Bitumen Containing Carbonates Using Solvents, high pH Solutions and Nano/Ionic Liquids. , 2015, , .		16
101	Improvement of the Recovery Factor Using Nano-Metal Particles at the Late Stages of Cyclic Steam Stimulation. , 2015, , .		14
102	Multilayer organic deposition on the rock surface with different wettabilities during solvent injection for heavy-oil recovery. Canadian Journal of Chemical Engineering, 2015, 93, 664-677.	0.9	2
103	Status of electromagnetic heating for enhanced heavy oil/bitumen recovery and future prospects: A review. Applied Energy, 2015, 151, 206-226.	5.1	216
104	Effect of surface roughness and lithology on the waterâ€“gas and waterâ€“oil relative permeability ratios of oil-wet single fractures. International Journal of Multiphase Flow, 2015, 75, 68-81.	1.6	46
105	Modified Random Walkâ€“Particle Tracking method to model early time behavior of EOR and sequestration of CO 2 in naturally fractured oil reservoirs. Journal of Petroleum Science and Engineering, 2015, 127, 65-81.	2.1	12
106	Field scale numerical modeling of low temperature air injection with propane for heavy-oil recovery from naturally fractured reservoirs. Fuel, 2015, 160, 140-152.	3.4	5
107	A grain based modeling study of fracture branching during compression tests in granites. International Journal of Rock Mechanics and Minings Sciences, 2015, 77, 152-162.	2.6	77
108	FRACTAL ASPECTS OF MISCIBLE DISPLACEMENT IN ROUGH FRACTURES: AN EXPERIMENTAL APPROACH. Fractals, 2015, 23, 1540005.	1.8	5

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109	Optimal Application Conditions for Steam/Solvent Coinjection. SPE Reservoir Evaluation and Engineering, 2015, 18, 20-38.	1.1	47
110	Wettability alteration: A comprehensive review of materials/methods and testing the selected ones on heavy-oil containing oil-wet systems. Advances in Colloid and Interface Science, 2015, 220, 54-77.	7.0	224
111	In-situ recovery of heavy-oil from fractured carbonate reservoirs: Optimization of steam-over-solvent injection method. Journal of Petroleum Science and Engineering, 2015, 130, 77-85.	2.1	14
112	Effect of waterflooding history on the efficiency of fully miscible tertiary solvent injection and optimal design of water-alternating-gas process. Journal of Petroleum Science and Engineering, 2015, 130, 114-122.	2.1	15
113	A semi-analytical solution to optimize single-component solvent coinjection with steam during SAGD. Fuel, 2015, 144, 400-414.	3.4	28
114	Multi-stage hydraulic fracturing and radio-frequency electromagnetic radiation for heavy-oil production. Journal of Unconventional Oil and Gas Resources, 2015, 12, 15-22.	3.5	13
115	A grain based modeling study of mineralogical factors affecting strength, elastic behavior and micro fracture development during compression tests in granites. Engineering Fracture Mechanics, 2015, 147, 261-275.	2.0	120
116	Experimental and visual analysis of single-phase flow through rough fracture replicas. International Journal of Rock Mechanics and Minings Sciences, 2015, 73, 139-155.	2.6	102
117	Effects of fractal surface roughness and lithology on single and multiphase flow in a single fracture: An experimental investigation. International Journal of Multiphase Flow, 2015, 68, 40-58.	1.6	123
118	Experimental Analysis of Heavy-Oil Recovery by Alternate Injection of Steam and Solvent (Hydrocarbon/CO ₂) in Unconsolidated Sand Reservoirs. Journal of Canadian Petroleum Technology, 2014, 53, 263-274.	2.3	6
119	Numerical Simulation of Complex Fracture Network Development by Hydraulic Fracturing in Naturally Fractured Ultratight Formations. Journal of Energy Resources Technology, Transactions of the ASME, 2014, 136, .	1.4	47
120	Selection of Optimal Solvent Type for High Temperature Solvent Applications in Heavy-Oil and Bitumen Recovery. , 2014, , .		8
121	Use of Carbon Dioxide and Hydrocarbon Solvents During the Method of Steam-Over-Solvent Injection in Fractured Reservoirs for Heavy-Oil Recovery From Sandstones and Carbonates. SPE Reservoir Evaluation and Engineering, 2014, 17, 286-301.	1.1	19
122	Hot water generation for oil sands processing from enhanced geothermal systems: Process simulation for different hydraulic fracturing scenarios. Applied Energy, 2014, 113, 524-547.	5.1	112
123	Efficient oil displacement near the chamber edge in ES-SAGD. Journal of Petroleum Science and Engineering, 2014, 118, 99-113.	2.1	47
124	Consideration of an effect of interfacial area between oil and CO ₂ on oil swelling. Journal of Petroleum Exploration and Production, 2014, 4, 105-112.	1.2	12
125	Evaluation of Engineered Geothermal Systems as a Heat Source for Oil Sands Production in Northern Alberta. Natural Resources Research, 2014, 23, 247-265.	2.2	15
126	Asphaltene precipitation, flocculation and deposition during solvent injection at elevated temperatures for heavy oil recovery. Fuel, 2014, 124, 202-211.	3.4	49

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127	Potential for enhanced geothermal systems in Alberta, Canada. <i>Energy</i> , 2014, 69, 578-591.	4.5	66
128	Stabilization of Nanometal Catalysts and Their Interaction with Oleic Phase in Porous Media during Enhanced Oil Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 8464-8475.	1.8	24
129	Quantitative and visual characterization of asphaltenic components of heavy-oil after solvent interaction at different temperatures and pressures. <i>Fluid Phase Equilibria</i> , 2014, 366, 74-87.	1.4	13
130	Kinetics of the In-Situ Upgrading of Heavy Oil by Nickel Nanoparticle Catalysts and Its Effect on Cyclic-Steam-Stimulation Recovery Factor. <i>SPE Reservoir Evaluation and Engineering</i> , 2014, 17, 355-364.	1.1	46
131	Heavy Oil Production by Electromagnetic Heating in Hydraulically Fractured Wells. <i>Energy & Fuels</i> , 2014, 28, 5737-5744.	2.5	23
132	Large scale applicability of the steam-over-solvent injection in fractured reservoirs (SOS-FR) method: Optimal operating conditions through numerical simulation. <i>Journal of Petroleum Science and Engineering</i> , 2014, 122, 497-506.	2.1	5
133	Drainage type oil and heavy-oil displacement in circular capillary tubes: Two- and three-phase flow characteristics and residual oil saturation development in the form of film at different temperatures. <i>Journal of Petroleum Science and Engineering</i> , 2014, 118, 61-73.	2.1	10
134	Scaling of production data obtained from Random Walk Particle Tracking simulations in highly fractured porous media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 405, 181-192.	1.2	6
135	Viscosity reduction of heavy oil/bitumen using micro- and nano-metal particles during aqueous and non-aqueous thermal applications. <i>Journal of Petroleum Science and Engineering</i> , 2014, 119, 210-220.	2.1	122
136	Diffusion and Dispersion Dominated Solvent Injection Processes in Oil Saturated Porous Media: 3-D Visualization Experiments Using Laser Technology. , 2014, , .		1
137	Modelling of Cold Heavy-Oil Production With Sand For Subsequent Thermal/Solvent Injection Applications. <i>Journal of Canadian Petroleum Technology</i> , 2014, 53, 095-108.	2.3	18
138	Relationship between percolationâ€™s fractal properties and permeability of 2-D fracture networks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013, 60, 353-362.	2.6	49
139	Bitumen Recovery by the Steam-Over-Solvent Injection in Fractured Reservoirs (SOS-FR) Method: An Experimental Study on Grosmont Carbonates. <i>Energy & Fuels</i> , 2013, 27, 6501-6517.	2.5	22
140	Use of nano-metal particles as catalyst under electromagnetic heating for in-situ heavy oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 2013, 112, 258-265.	2.1	62
141	Pore-scale interfacial dynamics and oilâ€™s water relative permeabilities of capillary driven counter-current flow in fractured porous media. <i>Journal of Petroleum Science and Engineering</i> , 2013, 103, 106-114.	2.1	37
142	Numerical simulation of heavy-oil/bitumen recovery by solvent injection at elevated temperatures. <i>Journal of Petroleum Science and Engineering</i> , 2013, 110, 199-209.	2.1	13
143	A developed smart technique to predict minimum miscible pressureâ€™s implications. <i>Canadian Journal of Chemical Engineering</i> , 2013, 91, 1325-1337.	0.9	92
144	Enhancement of the efficiency of in situ combustion technique for heavy-oil recovery by application of nickel ions. <i>Fuel</i> , 2013, 105, 397-407.	3.4	80

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145	In-Situ Upgrading of Heavy Oil/Bitumen During Steam Injection by Use of Metal Nanoparticles: A Study on In-Situ Catalysis and Catalyst Transportation. SPE Reservoir Evaluation and Engineering, 2013, 16, 333-344.	1.1	90
146	Quantitative and Visual Characterization of Asphaltenic Components of Heavy-Oil and Bitumen Samples after Solvent Interaction at Different Temperatures and Pressures. , 2013, , .		7
147	Experimental Investigation of Bitumen Recovery From Fractured Carbonates Using Hot Solvents. Journal of Canadian Petroleum Technology, 2013, 52, 289-295.	2.3	20
148	Mechanics of Heavy-Oil and Bitumen Recovery by Hot Solvent Injection. SPE Reservoir Evaluation and Engineering, 2012, 15, 182-194.	1.1	53
149	Design of Solvent-Assisted SAGD Processes in Heterogeneous Reservoirs Using Hybrid Optimization Techniques. Journal of Canadian Petroleum Technology, 2012, 51, 437-448.	2.3	30
150	An Approach to Model CHOPS (Cold Heavy Oil Production with Sand) and Post-CHOPS Applications. , 2012, , .		19
151	High Temperature Density, Viscosity, and Interfacial Tension Measurements of Bitumenâ€“Pentaneâ€“Biodiesel and Process Water Mixtures. Journal of Chemical & Engineering Data, 2012, 57, 2878-2889.	1.0	40
152	Field-Scale Modeling of Tracer Injection in Naturally Fractured Reservoirs Using the Random-Walk Particle-Tracking Simulation. SPE Journal, 2012, 17, 580-592.	1.7	10
153	Optimization of SAGD and solvent additive SAGD applications: Comparative analysis of optimization techniques with improved algorithm configuration. Journal of Petroleum Science and Engineering, 2012, 98-99, 61-68.	2.1	13
154	BioDiesel as Additive in High Pressure and Temperature Steam Recovery of Heavy Oil and Bitumen. Oil and Gas Science and Technology, 2012, 67, 413-421.	1.4	15
155	Visual analysis of diffusion process during oil recovery using a Hele-Shaw model with hydrocarbon solvents and thermal methods. Chemical Engineering Journal, 2012, 181-182, 557-569.	6.6	17
156	Modeling miscible injection in fractured porous media using random walk simulation. Chemical Engineering Science, 2012, 74, 93-104.	1.9	8
157	Laboratory scale experimental analysis of Steam-Over-Solvent injection in Fractured Reservoirs (SOS-FR) for heavy-oil recovery. Journal of Petroleum Science and Engineering, 2012, 84-85, 42-56.	2.1	19
158	Equivalent Fracture Network Permeability of Multilayer-Complex Naturally Fractured Reservoirs. Transport in Porous Media, 2012, 91, 339-362.	1.2	7
159	Steam-over-Solvent Injection in Fractured Reservoirs (SOS-FR) Technique as a New Approach for Heavy-Oil and Bitumen Recovery: An Overview of the Method. Energy & Fuels, 2011, 25, 4528-4539.	2.5	36
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