Cai li Dai

List of Publications by Year in Descending Order

210 papers	3,299 citations	30 h-index	44 g-index
221 ext. papers	4,333 ext. citations	4.1 avg, IF	5.67 L-index

#	Paper	IF	Citations
210	Modulation of bubble flow resistance and surface fluidity :the effect of nanoparticle packing density at gas□quid interface. *Journal of Molecular Liquids*, **2022**, 350, 118574	6	0
209	Preparation and performance evaluation of an active nanofluid for enhanced oil recovery in ultra-low permeability reservoirs. *Journal of Molecular Liquids*, **2022**, 347, 118331	6	2
208	Performance evaluation of a novel CO2-induced clean fracturing fluid in low permeability formations. *Journal of Petroleum Science and Engineering*, **2022**, 208, 109674	4.4	1
207	Experimental evaluation of tight sandstones reservoir flow characteristics under CO2□Brine□Rock multiphase interactions: A case study in the Chang 6 layer, Ordos Basin, China. *Fuel*, **2022**, 309, 122167	7.1	1
206	Mussel-inspired superhydrophilic membrane constructed on a hydrophilic polymer network for highly efficient oil/water separation. *Journal of Colloid and Interface Science*, **2022**, 608, 702-710	9.3	7
205	Profile control technology of the DPG particles three-phase foam system **2022**, 287-338		
204	The preparation technology of dispersed particle gel **2022**, 47-95		
203	Preparation technology of bulk gel **2022**, 11-45		
202	DPG-strengthened polymer/surfactant combination flooding technology **2022**, 259-286		
201	DPG soft heterogeneous combination flooding technology **2022**, 155-257		0
200	The profile control technology of multiscale DPG particles **2022**, 97-153		
199	Experimental Study on Oil Drop Discharge Behavior during Dynamic Imbibition in Tight Oil Sandstone with Aid of Surfactant. *Energies*, **2022**, 15, 1533	3.1	
198	Non-ionic Polar Small Molecules Induced Transition from Elastic Hydrogel via Viscoelastic Wormlike Micelles to Spherical micelles in Zwitterionic Surfactant Systems. *Journal of Molecular Liquids*, **2022**, 359, 119343	6	1
197	Study on the thickening behavior and mechanism of supercritical CO2 by modified polysiloxane. *Fuel*, **2022**, 323, 124358	7.1	0
196	Preparation of dual network semi-solidified gelled-foam for sealing gas channeling in fractured-vuggy reservoirs. *Journal of Petroleum Science and Engineering*, **2022**, 110687	4.4	
195	Enhanced oil recovery mechanism by surfactant-silica nanoparticles imbibition in ultra-low permeability reservoirs. *Journal of Molecular Liquids*, **2021**, 348, 118010	6	3
194	Biomimetic functional hydrogel particles with enhanced adhesion characteristics for applications in fracture conformance control. *Journal of Industrial and Engineering Chemistry*, **2021**, 106, 482-482	6.3	2

193	Molecular behavior and interaction between THSB and DPG particles at the gas/liquid interface. *Journal of Molecular Liquids*, **2021**, 329, 115487	6	1
192	Formulation and performance evaluation of polymer-thickened supercritical CO2 fracturing fluid. *Journal of Petroleum Science and Engineering*, **2021**, 201, 108474	4.4	5
191	Chromatography and oil displacement mechanism of a dispersed particle gel strengthened Alkali/Surfactant/Polymer combination flooding system for enhanced oil recovery. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 610, 125642	5.1	10
190	The experimental study of silica nanoparticles strengthened polymer gel system. *Journal of Dispersion Science and Technology*, **2021**, 42, 298-305	1.5	5
189	New channel flow control agent for high-temperature and high-salinity fractured-vuggy carbonate reservoirs. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2021**, 43, 337-348	1.6	1
188	CO2-responsive zwitterionic copolymer for effective emulsification and facile demulsification of crude heavy oil. *Journal of Molecular Liquids*, **2021**, 325, 115166	6	8
187	Self-growing Hydrogel Particles with Applications for Reservoir Control: Growth Behaviors and Influencing Factors. *Journal of Physical Chemistry B*, **2021**, 125, 9870-9878	3.4	3
186	Lignosulfonate/diblock copolymer polyion complexes with aggregation-enhanced and pH-switchable fluorescence for information storage and encryption. *International Journal of Biological Macromolecules*, **2021**, 187, 722-731	7.9	0
185	Novel high-hydrophilic carbon dots from petroleum coke for boosting injection pressure reduction and enhancing oil recovery. *Carbon*, **2021**, 184, 186-194	10.4	4
184	Development, performance evaluation and enhanced oil recovery regulations of a zwitterionic viscoelastic surfactant fracturing-flooding system. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 630, 127568	5.1	0
183	Investigation of a novel enhanced stabilized foam: Nano-graphite stabilized foam. *Journal of Molecular Liquids*, **2021**, 343, 117466	6	4
182	Assembly of Ultralight Dual Network Graphene Aerogel with Applications for Selective Oil Absorption. *Langmuir*, **2020**, 36, 13698-13707	4	15
181	Studies on the synthesis, surface activity and the ability to form pH-regulated wormlike micelles with surfactant containing carboxyl group. *Journal of Molecular Liquids*, **2020**, 309, 113182	6	6
180	Self-Lubricating Supramolecular Hydrogel for In-Depth Profile Control in Fractured Reservoirs. *ACS Omega*, **2020**, 5, 7244-7253	3.9	3
179	The dissolution characteristic of nonionic surfactants in supercritical CO2. *Journal of Molecular Liquids*, **2020**, 305, 112846	6	3
178	Dynamic imbibition with aid of surfactant in tight oil fracture network model. *Journal of Petroleum Science and Engineering*, **2020**, 193, 107393	4.4	5
177	Mechanism of the Wettability Impact on Surfactant Imbibition in Dodecane-Saturated Tight Sandstone. *Energy & Fuels*, **2020**, 34, 6862-6870	4.1	4
176	A smart recyclable VES fluid for high temperature and high pressure fracturing. *Journal of Petroleum Science and Engineering*, **2020**, 190, 107097	4.4	8

175	Reduction of clean fracturing fluid filtration loss by viscosity enhancement using nanoparticles: Is it feasible?. *Chemical Engineering Research and Design*, **2020**, 156, 414-424	5.5	3
174	Study on the mechanism of the effect of coumaric acid with different hydroxyl substituent positions on constructing light-regulated wormlike micelles. *Journal of Molecular Liquids*, **2020**, 315, 113710	6	1
173	The preparation and spontaneous imbibition of carbon-based nanofluid for enhanced oil recovery in tight reservoirs. *Journal of Molecular Liquids*, **2020**, 313, 113564	6	9
172	Core-Shell Nanohydrogels with Programmable Swelling for Conformance Control in Porous Media. *ACS Applied Materials & Interfaces*, **2020**, 12, 34217-34225	9.5	6
171	Effects of structural properties of alcohol molecules on decomposition of natural gas hydrates: A molecular dynamics study. *Fuel*, **2020**, 268, 117322	7.1	9
170	Viscoelastic surfactant fluids filtration in porous media: A pore-scale study. *AICHE Journal*, **2020**, 66, e16229	3.9	4
169	Interfacial characteristics and the stability mechanism of a dispersed particle gel (DPG) three-phase foam. *Journal of Molecular Liquids*, **2020**, 301, 112425	6	12
168	Investigating breakup behaviors of the non-Newtonian fluid: A case study of oil droplet using 3-D pore throat structured microchannels. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 587, 124330	5.1	3
167	Study on Variation Laws of Fluid Threshold Pressure Gradient in Low Permeable Reservoir. *Energies* , **2020**, 13, 3704	3.1	1
166	Dynamic cross-linking mechanism of acid gel fracturing fluid. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 607, 125471	5.1	5
165	Impact of nanoparticles concentration on the properties of a reversible emulsion stabilized by pH-responsive cationic surfactant. *Journal of Dispersion Science and Technology*, **2020**, 41, 1445-1454	1.5	2
164	Study on the Reducing Injection Pressure Regulation of Hydrophobic Carbon Nanoparticles. *Langmuir*, **2020**, 36, 3989-3996	4	6
163	Investigation of cellulose nanofiber enhanced viscoelastic fracturing fluid system: Increasing viscoelasticity and reducing filtration. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 582, 123938	5.1	9
162	Thermal-resistant, shear-stable and salt-tolerant polyacrylamide/surface-modified graphene oxide composite. *Journal of Materials Science*, **2019**, 54, 14752-14762	4.3	14
161	Effect of Silica Nanoparticles on Wormlike Micelles with Different Entanglement Degrees. *Journal of Surfactants and Detergents*, **2019**, 22, 587-595	1.9	4
160	Adsorption behaviour of surfactant-nanoparticles at the gas-liquid interface: Influence of the alkane chain length. *Chemical Engineering Science*, **2019**, 206, 203-211	4.4	24
159	Spontaneous Formation of Vesicles by N-Alkyl-N-Methylmorpholinium Bromide and Sodium Dodecyl Sulfate (SDS). *IOP Conference Series: Earth and Environmental Science*, **2019**, 218, 012105	0.3	1
158	Expandable graphite particles as a novel in-depth steam channeling control agent in heavy oil reservoirs. *Chemical Engineering Journal*, **2019**, 368, 668-677	14.7	20

157	Novel Chemical Flooding System Based on Dispersed Particle Gel Coupling In-Depth Profile Control and High Efficient Oil Displacement. *Energy & Fuels*, **2019**, 33, 3123-3132	4.1	18
156	Experimental investigation of spontaneous imbibition process of nanofluid in ultralow permeable reservoir with nuclear magnetic resonance. *Chemical Engineering Science*, **2019**, 201, 212-221	4.4	28
155	Study on Stabilizing Emulsion by Mixing Nano-silica and Cationic Surfactants with Different Chain Length. *IOP Conference Series: Earth and Environmental Science*, **2019**, 218, 012071	0.3	1
154	Precisely Tailoring Bubble Morphology in Microchannel by Nanoparticles Self-assembly. *Industrial & Engineering Chemistry Research*, **2019**, 58, 3707-3713	3.9	27
153	Developing New Recyclable and pH-Sensitive Amphiphile for Heavy Oil Emulsion and Demulsification: A Molecular Dynamics Study. *Springer Series in Geomechanics and Geoengineering*, **2019**, 1063-1073	0.1	1
152	Experimental Study of Temperature Resistance and Salt Tolerance Dispersed Particle Gel Three-Phase Foam. *Springer Series in Geomechanics and Geoengineering*, **2019**, 1041-1054	0.1	
151	Study on Synthesis and Properties of Gemini Surfactant Used as Viscoelastic Surfactant (VES). *Springer Series in Geomechanics and Geoengineering*, **2019**, 1074-1083	0.1	2
150	Preparation of low-temperature expandable graphite as a novel steam plugging agent in heavy oil reservoirs. *Journal of Molecular Liquids*, **2019**, 293, 111535	6	7
149	Tuning the Electrical Properties of Nanoparticles and Application in the EOR Process of Ultra-low Permeability Reservoirs. *IOP Conference Series: Earth and Environmental Science*, **2019**, 218, 012153	0.3	
148	Study on the channel flow control regulation of particle agents in fractured-vuggy carbonate reservoirs via CFD-DEM coupling method. *Journal of Petroleum Science and Engineering*, **2019**, 180, 495-503	4.4	9
147	Oil extraction mechanism in CO2 flooding from rough surface: Molecular dynamics simulation. *Applied Surface Science*, **2019**, 494, 80-86	6.7	16
146	Development and evaluation of a novel seawater-based viscoelastic fracturing fluid system. *Journal of Petroleum Science and Engineering*, **2019**, 183, 106408	4.4	17
145	Preparation and Evaluation of Acid Gel Fracturing Fluid with Temperature Resistance. *Springer Series in Geomechanics and Geoengineering*, **2019**, 1127-1137	0.1	
144	Experimental Study of Organic Alkali Enhancing Polymer/Surfactant Flooding Oil Recovery. *Springer Series in Geomechanics and Geoengineering*, **2019**, 1114-1126	0.1	
143	Characteristic of Permeability and Porosity of a 2D High-Permeable Model with Etched Network Channels. *Springer Series in Geomechanics and Geoengineering*, **2019**, 1138-1152	0.1	
142	Screening and Evaluation on Compound Profile Control System for Reutilization of Residual Polymer in Formation. *Springer Series in Geomechanics and Geoengineering*, **2019**, 1084-1093	0.1	
141	Oil migration in nanometer to micrometer sized pores of tight oil sandstone during dynamic surfactant imbibition with online NMR. *Fuel*, **2019**, 245, 544-553	7.1	40
140	Giant surfactant-stabilized N-foam for enhanced oil recovery after water flooding.. *RSC Advances*, **2019**, 9, 31551-31562	3.7	7

139	Smart mobility control agent for enhanced oil recovery during CO2 flooding in ultra-low permeability reservoirs. *Fuel*, **2019**, 241, 442-450	7.1	67
138	The construction of anhydride-modified silica nanoparticles (AMSNPs) strengthened wormlike micelles based on strong electrostatic and hydrogen bonding interactions. *Journal of Molecular Liquids*, **2019**, 277, 372-379	6	6
137	A novel strategy to create bifunctional silica-protected quantum dot nanoprobe for fluorescence imaging. *Sensors and Actuators B: Chemical*, **2019**, 282, 27-35	8.5	13
136	Solid-like film formed by nano-silica self-assembly at oil□water interface. *Chemical Engineering Science*, **2019**, 195, 51-61	4.4	11
135	CO2-controllable smart nanostructured fluids in a pseudo Gemini surfactant system. *Journal of Molecular Liquids*, **2019**, 274, 133-139	6	14
134	Investigation on flow characteristic of viscoelasticity fluids in pore-throat structure. *Journal of Petroleum Science and Engineering*, **2019**, 174, 821-832	4.4	7
133	Experimental study on lateral flooding for enhanced oil recovery in bottom-water reservoir with high water cut. *Journal of Petroleum Science and Engineering*, **2019**, 174, 747-756	4.4	62
132	Study on the synergy between silica nanoparticles and surfactants for enhanced oil recovery during spontaneous imbibition. *Journal of Molecular Liquids*, **2018**, 261, 373-378	6	67
131	Experimental Study on the Stabilization Mechanisms of CO2 Foams by Hydrophilic Silica Nanoparticles. *Energy & Fuels*, **2018**, 32, 3709-3715	4.1	31
130	Synthesis and Evaluation of Two Gas-Wetting Alteration Agents for a Shale Reservoir. *Energy & Fuels*, **2018**, 32, 1515-1524	4.1	19
129	Enhanced Oil Recovery Study of a New Mobility Control System on the Dynamic Imbibition in a Tight Oil Fracture Network Model. *Energy & Fuels*, **2018**, 32, 2908-2915	4.1	13
128	Emulsion behavior control and stability study through decorating silica nano-particle with dimethyldodecylamine oxide at n-heptane/water interface. *Chemical Engineering Science*, **2018**, 179, 73-82	4.4	20
127	CO2-responsive smart wormlike micelles based on monomer and □pseudo□gemini surfactant. *Journal of Industrial and Engineering Chemistry*, **2018**, 60, 348-354	6.3	17
126	Preparation and application of a novel phenolic resin dispersed particle gel for in-depth profile control in low permeability reservoirs. *Journal of Petroleum Science and Engineering*, **2018**, 161, 703-714	4.4	53
125	Investigation of Spontaneous Imbibition by Using a Surfactant-Free Active Silica Water-Based Nanofluid for Enhanced Oil Recovery. *Energy & Fuels*, **2018**, 32, 287-293	4.1	47
124	Experimental study on spontaneous imbibition of recycled fracturing flow-back fluid to enhance oil recovery in low permeability sandstone reservoirs. *Journal of Petroleum Science and Engineering*, **2018**, 166, 375-380	4.4	108
123	Impairment mechanism of thickened supercritical carbon dioxide fracturing fluid in tight sandstone gas reservoirs. *Fuel*, **2018**, 211, 60-66	7.1	22
122	A Study of the Stability Mechanism of the Dispersed Particle Gel Three-Phase Foam Using the Interfacial Dilational Rheology Method. *Materials*, **2018**, 11,	3.5	9

121	Micelle formation by amine-based CO2-responsive surfactant of imidazoline type in an aqueous solution. *Journal of Molecular Liquids*, **2018**, 268, 875-881	6	6
120	Study on a Novel Gelled Foam for Conformance Control in High Temperature and High Salinity Reservoirs. *Energies*, **2018**, 11, 1364	3.1	10
119	The mechanism difference between CO and pH stimuli for a dual responsive wormlike micellar system. *Physical Chemistry Chemical Physics*, **2018**, 20, 19900-19905	3.6	6
118	Viscoelastic Surfactants with High Salt Tolerance, Fast-Dissolving Property, and Ultralow Interfacial Tension for Chemical Flooding in Offshore Oilfields. *Journal of Surfactants and Detergents*, **2018**, 21, 475-488	1.9	13
117	A novel CO2 and pressure responsive viscoelastic surfactant fluid for fracturing. *Fuel*, **2018**, 229, 79-87	7.1	19
116	Study on rheology and microstructure of phenolic resin cross-linked nonionic polyacrylamide (NPAM) gel for profile control and water shutoff treatments. *Journal of Petroleum Science and Engineering*, **2018**, 169, 546-552	4.4	21
115	Stability Mechanism of Nitrogen Foam in Porous Media with Silica Nanoparticles Modified by Cationic Surfactants. *Langmuir*, **2018**, 34, 8015-8023	4	17
114	Laboratory experiment on a toluene-polydimethyl silicone thickened supercritical carbon dioxide fracturing fluid. *Journal of Petroleum Science and Engineering*, **2018**, 166, 369-374	4.4	12
113	Research of phenolic crosslinker gel for profile control and oil displacement in high temperature and high salinity reservoirs. *Journal of Applied Polymer Science*, **2018**, 135, 46075	2.9	6
112	Study on adsorption characteristic of novel nonionic fluorocarbon surfactant (4-hydroxyethyl ether) (pentadecafluoro-alkyl) amide at coal-water interface. *Colloid and Polymer Science*, **2018**, 296, 21-30	2.4	3
111	Adsorption and retention behaviors of heterogeneous combination flooding system composed of dispersed particle gel and surfactant. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 538, 250-261	5.1	17
110	Alternating electric field-induced ion current rectification and electroosmotic pump in ultranarrow charged carbon nanocones. *Physical Chemistry Chemical Physics*, **2018**, 20, 27910-27916	3.6	4
109	Developing New Recyclable and CO2 Sensitive Amphiphile for Fracturing Fluid. *IOP Conference Series: Earth and Environmental Science*, **2018**, 153, 022037	0.3	
108	Characteristics and displacement mechanisms of the dispersed particle gel soft heterogeneous compound flooding system. *Petroleum Exploration and Development*, **2018**, 45, 481-490	4.5	17
107	Experimental study of acrylamide monomer polymer gel for water plugging in low temperature and high salinity reservoir. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2018**, 40, 2948-2959	1.6	6
106	Experimental Study on a Novel Thickened Supercritical CO2 System and its EOR Performance in Low Permeability Reservoir **2018**,		2
105	Dispersed Particle Gel-Strengthened Polymer/Surfactant as a Novel Combination Flooding System for Enhanced Oil Recovery. *Energy & Fuels*, **2018**, 32, 11317-11327	4.1	38
104	Interfacial rheology of a novel dispersed particle gel soft heterogeneous combination flooding system at the oil-water interface. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 559, 23-34	5.1	13

103	Investigation of Active-Inactive Material Interdigitated Aggregates Formed by Wormlike Micelles and Cellulose Nanofiber. *Journal of Physical Chemistry B*, **2018**, 122, 10371-10376	3.4	2
102	A Study on Preparation and Stabilizing Mechanism of Hydrophobic Silica Nanofluids. *Materials*, **2018**, 11,	3.5	25
101	The effect of supercritical CO2 fracturing fluid retention-induced permeability alteration of tight oil reservoir. *Journal of Petroleum Science and Engineering*, **2018**, 171, 1123-1132	4.4	7
100	Preparation and Performance Evaluation of Fatty Amine Polyoxyethylene Ether Diethyl Disulfonate for Enhanced Oil Recovery in High-Temperature and High-Salinity Reservoirs. *Journal of Surfactants and Detergents*, **2018**, 21, 489-496	1.9	0
99	Rheological properties and formation dynamic filtration damage evaluation of a novel nanoparticle-enhanced VES fracturing system constructed with wormlike micelles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 553, 244-252	5.1	18
98	Novel investigation based on cationic modified starch with residual anionic polymer for enhanced oil recovery. *Journal of Dispersion Science and Technology*, **2017**, 38, 199-205	1.5	1
97	A pH-responsive wormlike micellar system of a noncovalent interaction-based surfactant with a tunable molecular structure. *Soft Matter*, **2017**, 13, 1182-1189	3.6	52
96	Preparation and solution performance for the amphiphilic polymers with different hydrophobic groups. *Journal of Applied Polymer Science*, **2017**, 134,	2.9	25
95	Spontaneous Imbibition Investigation of Self-Dispersing Silica Nanofluids for Enhanced Oil Recovery in Low-Permeability Cores. *Energy & Fuels*, **2017**, 31, 2663-2668	4.1	68
94	Oil detachment mechanism in CO2 flooding from silica surface: Molecular dynamics simulation. *Chemical Engineering Science*, **2017**, 164, 17-22	4.4	27
93	Reducing surfactant adsorption on rock by silica nanoparticles for enhanced oil recovery. *Journal of Petroleum Science and Engineering*, **2017**, 153, 283-287	4.4	91
92	Application of Dispersed Particle Gel to Inhibit Surfactant Adsorption on Sand. *Journal of Surfactants and Detergents*, **2017**, 20, 863-871	1.9	2
91	Synthesis, surface adsorption and micelle formation of a class of morpholinium gemini surfactants. *Journal of Industrial and Engineering Chemistry*, **2017**, 54, 226-233	6.3	23
90	Permeability evolution study after breaking of friction reducer in near fracture matrix of tightgas reservoir. *Fuel*, **2017**, 204, 63-70	7.1	12
89	Investigation on bubble snap-off in 3-D pore-throat micro-structures. *Journal of Industrial and Engineering Chemistry*, **2017**, 54, 69-74	6.3	24
88	The effect of hydroxyl on the solution behavior of a quaternary ammonium gemini surfactant. *Physical Chemistry Chemical Physics*, **2017**, 19, 16047-16056	3.6	12
87	A New Insight into the Pressure-Decreasing Mechanism of Hydrophobic Silica Nanoparticles Modified by n-Propyltrichlorosilane. *Journal of Surfactants and Detergents*, **2017**, 20, 873-880	1.9	3
86	Investigation of Novel Triple-Responsive Wormlike Micelles. *Langmuir*, **2017**, 33, 4319-4327	4	38

85	Correlated Rectification Transport in Ultranarrow Charged Nanocones. *Journal of Physical Chemistry Letters*, **2017**, 8, 435-439	6.4	22
84	Experimental Investigation on a Novel Organic-Inorganic Crosslinked Polymer Gel for Water Control in Ultra-High Temperature Reservoirs **2017**,		2
83	Experimental study of bubble breakup process in non-Newtonian fluid in 3-D pore-throat microchannels. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 535, 130-138	5.1	14
82	A Novel Nanofluid Based on Fluorescent Carbon Nanoparticles for Enhanced Oil Recovery. *Industrial & Engineering Chemistry Research*, **2017**, 56, 12464-12470	3.9	32
81	Design and Study of a Novel Thermal-Resistant and Shear-Stable Amphoteric Polyacrylamide in High-Salinity Solution. *Polymers*, **2017**, 9,	4.5	24
80	Gated Water Transport through Graphene Nanochannels: From Ionic Coulomb Blockade to Electroosmotic Pump. *Journal of Physical Chemistry C*, **2017**, 121, 17523-17529	3.8	12
79	Study on the indigenous stabilization mechanism of light crude oil emulsions based on an in situ solvent-dissolution visualization method. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 530, 155-163	5.1	13
78	Study on a Novel Cross-Linked Polymer Gel Strengthened with Silica Nanoparticles. *Energy & Fuels*, **2017**, 31, 9152-9161	4.1	55
77	Experimental Study on Low Interfacial Tension Foam for Enhanced Oil Recovery in High-Temperature and High-Salinity Reservoirs. *Energy & Fuels*, **2017**, 31, 13416-13426	4.1	17
76	Understanding the temperature resistance performance of a borate cross-linked hydroxypropyl guar gum fracturing fluid based on a facile evaluation method. *RSC Advances*, **2017**, 7, 53290-53300	3.7	8
75	Highly Efficient Nano Boron Crosslinker for Low-Polymer Loading Fracturing Fluid System **2017**,		6
74	Wettability Alteration Study of Supercritical CO2 Fracturing Fluid on Low Permeability Oil Reservoir. *Energy & Fuels*, **2017**, 31, 13364-13373	4.1	19
73	Investigation on matching relationship between dispersed particle gel (DPG) and reservoir pore-throats for in-depth profile control. *Fuel*, **2017**, 207, 109-120	7.1	40
72	The Study of a Novel Nanoparticle-Enhanced Wormlike Micellar System. *Nanoscale Research Letters*, **2017**, 12, 431	5	19
71	Study of salt tolerance and temperature resistance of a hydrophobically modified polyacrylamide based novel functional polymer for EOR. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 514, 91-97	5.1	72
70	Experimental research of hydroquinone (HQ)/hexamethylene tetramine (HMTA) gel for water plugging treatments in high-temperature and high-salinity reservoirs. *Journal of Applied Polymer Science*, **2017**, 134,	2.9	14
69	The Study of a Novel Modified Silica Nanofluid for Pressure-Decreasing Application in the Ultra-Low Permeable Formation **2017**,		1
68	Can More Nanoparticles Induce Larger Viscosities of Nanoparticle-Enhanced Wormlike Micellar System (NEWMS)?. *Materials*, **2017**, 10,	3.5	20

67	Gelation Behavior Study of a Resorcinol–Hexamethyleneteramine Crosslinked Polymer Gel for Water Shut-Off Treatment in Low Temperature and High Salinity Reservoirs. *Energies*, **2017**, 10, 913	3.1	19
66	Evaluation method and treatment effectiveness analysis of anti-water blocking agent. *Journal of Natural Gas Science and Engineering*, **2016**, 33, 1374-1380	4.6	10
65	Investigation on Polymer Reutilization Mechanism of Salt-Tolerant Modified Starch on Offshore Oilfield. *Energy & Fuels*, **2016**, 30, 5585-5592	4.1	11
64	The effect of fluorosurfactant-modified nano-silica on the gas-wetting alteration of sandstone in a CH4-liquid-core system. *Fuel*, **2016**, 178, 163-171	7.1	54
63	Rheological characterizations and molecular dynamics simulations of self-assembly in an anionic/cationic surfactant mixture. *Soft Matter*, **2016**, 12, 6058-66	3.6	11
62	Micelle-to-vesicle transition induced by β-cyclodextrin in mixed catanionic surfactant solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 498, 1-6	5.1	11
61	A Novel Study on the Gel Phase Formed in a Catanionic Surfactant System. *Journal of Surfactants and Detergents*, **2016**, 19, 519-525	1.9	2
60	Stability mechanism of a novel three-Phase foam by adding dispersed particle gel. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 497, 214-224	5.1	38
59	Synergistic effect of pH-responsive wormlike micelles based on a simple amphiphile. *Soft Matter*, **2016**, 12, 4549-56	3.6	18
58	Surface adsorption and micelle formation of surfactant N-alkyl-N-methylmorpholinium bromide in aqueous solutions. *Journal of Molecular Liquids*, **2016**, 220, 442-447	6	7
57	The effect of functional groups on the sphere-to-wormlike micellar transition in quaternary ammonium surfactant solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 500, 32-39	5.1	16
56	New insights into the hydroquinone (HQ)–hexamethylenetetramine (HMTA) gel system for water shut-off treatment in high temperature reservoirs. *Journal of Industrial and Engineering Chemistry*, **2016**, 35, 20-28	6.3	44
55	Research on a temporary plugging agent based on polymer gel for reservoir acidification. *Journal of Petroleum Exploration and Production*, **2016**, 6, 465-472	2.2	11
54	Investigation on Preparation and Profile Control Mechanisms of the Dispersed Particle Gels (DPG) Formed from Phenol–Formaldehyde Cross-linked Polymer Gel. *Industrial & Engineering Chemistry Research*, **2016**, 55, 6284-6292	3.9	38
53	Development, formation mechanism and performance evaluation of a reusable viscoelastic surfactant fracturing fluid. *Journal of Industrial and Engineering Chemistry*, **2016**, 37, 115-122	6.3	49
52	Investigation on a novel photo-responsive system formed by N -methyl- N -cetylpyrrolidinium bromide and ortho -methoxycinnamic. *Journal of Molecular Liquids*, **2016**, 223, 329-334	6	11
51	A novel strengthened dispersed particle gel for enhanced oil recovery application. *Journal of Industrial and Engineering Chemistry*, **2016**, 41, 175-182	6.3	46
50	Investigation on interfacial/surface properties of bio-based surfactant N -aliphatic amide- N , N -diethoxypropylsulfonate sodium as an oil displacement agent regenerated from waste cooking oil. *Journal of Molecular Liquids*, **2016**, 223, 68-74	6	9

49	Formation and rheological properties of wormlike micelles by N-hexadecyl-N-methylpiperidinium bromide and sodium salicylate. *Colloid and Polymer Science*, **2015**, 293, 1073-1082	2.4	21
48	Impact of surfactant in fracturing fluid on the adsorption–desorption processes of coalbed methane. *Journal of Natural Gas Science and Engineering*, **2015**, 26, 35-41	4.6	24
47	Investigation on the aggregation behavior of photo-responsive system composed of 1-hexadecyl-3-methylimidazolium bromide and 2-methoxycinnamic acid. *RSC Advances*, **2015**, 5, 68369-68377	3.7	10
46	The first study of surface modified silica nanoparticles in pressure-decreasing application. *RSC Advances*, **2015**, 5, 61838-61845	3.7	29
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