Ibnelwaleed A Hussein

List of Publications by Year
in descending order

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196 papers	6,141 citations	81743 39 h-index	98622 67 g-index
203 all docs	203 docs citations	203 times ranked	4740 citing authors

#	Article	IF	Citations
1	Review on Surfactant Flooding: Phase Behavior, Retention, IFT, and Field Applications. Energy & Fuels, 2017, 31, 7701-7720.	2.5	444
2	Review on Polymer Flooding: Rheology, Adsorption, Stability, and Field Applications of Various Polymer Systems. Polymer Reviews, 2015, 55, 491-530.	5.3	292
3	Polymer Systems for Water Shutoff and Profile Modification: A Review Over the Last Decade. SPE Journal, 2014, 19, 135-149.	1.7	208
4	Oilfield scale formation and chemical removal: A review. Journal of Petroleum Science and Engineering, 2018, 171, 127-139.	2.1	166
5	Application of various water soluble polymers in gas hydrate inhibition. Renewable and Sustainable Energy Reviews, 2016, 60, 206-225.	8.2	162
6	Review on recent advances in polythiophene based photovoltaic devices. Renewable and Sustainable Energy Reviews, 2016, 57, 550-561.	8.2	152
7	A rheological investigation of a high temperature organic gel used for water shut-off treatments. Journal of Petroleum Science and Engineering, 2007, 59, 73-83.	2.1	150
8	Recent Advances in Dye Sensitized Solar Cells. Advances in Materials Science and Engineering, 2014, 2014, 1-12.	1.0	143
9	Polymeric Surfactants and Emerging Alternatives used in the Demulsification of Produced Water: A Review. Polymer Reviews, 2018, 58, 63-101.	5.3	128
10	CO2 enhanced gas recovery and sequestration in depleted gas reservoirs: A review. Journal of Petroleum Science and Engineering, 2021, 196, 107685.	2.1	125
11	Viscoelastic properties of a high temperature cross-linked water shut-off polymeric gel. Journal of Petroleum Science and Engineering, 2007, 55, 56-66.	2.1	108
12	Influence of polyelectrolytes and other polymer complexes on the flocculation and rheological behaviors of clay minerals: A comprehensive review. Separation and Purification Technology, 2017, 187, 137-161.	3.9	107
13	Hybrid TiO2â€“multiwall carbon nanotube (MWCNTs) photoanodes for efficient dye sensitized solar cells (DSSCs). Solar Energy Materials and Solar Cells, 2015, 140, 174-179.	3.0	81
14	Controlled growth of Cu2O thin films by electrodeposition approach. Materials Science in Semiconductor Processing, 2017, 63, 203-211.	1.9	74
15	Screening of amphoteric and anionic surfactants for cEOR applications using a novel approach. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 476, 17-23.	2.3	72
16	Rheological study of the influence of Mw and comonomer type on the miscibility of m-LLDPE and LDPE blends. Polymer, 2002, 43, 6911-6929.	1.8	71
17	Polymeric formulations used for loss circulation materials and wellbore strengthening applications in oil and gas wells: A review. Journal of Petroleum Science and Engineering, 2019, 180, 197-214.	2.1	71
18	Investigation of the effect of polyelectrolyte structure and type on the electrokinetics and flocculation behavior of bentonite dispersions. Chemical Engineering Journal, 2017, 311, 265-276.	6.6	69

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19	Hole cleaning and drilling fluid sweeps in horizontal and deviated wells: Comprehensive review. Journal of Petroleum Science and Engineering, 2020, 186, 106748.	2.1	68
20	Miscibility of hexene-LLDPE and LDPE blends: influence of branch content and composition distribution. Polymer, 2003, 44, 4665-4672.	1.8	67
21	Loss circulation in drilling and well construction: The significance of applications of crosslinked polymers in wellbore strengthening: A review. Journal of Petroleum Science and Engineering, 2020, 185, 106653.	2.1	64
22	Influence of Surfactant Structure on the Stability of Water-in-Oil Emulsions under High-Temperature High-Salinity Conditions. Journal of Chemistry, 2017, 2017, 1-11.	0.9	62
23	Rheological Properties of Thermoviscosifying Polymers in Highâ€temperature and Highâ€salinity Environments. Canadian Journal of Chemical Engineering, 2015, 93, 1194-1200.	0.9	61
24	Gelation of a Water-Shutoff Gel at High Pressure and High Temperature: Rheological Investigation. SPE Journal, 2015, 20, 1103-1112.	1.7	58
25	Theoretical study of benzene/thiophene based photosensitizers forÂdye sensitized solar cells (DSSCs). Dyes and Pigments, 2015, 118, 152-158.	2.0	53
26	Impact of salts on polyacrylamide hydrolysis and gelation: New insights. Journal of Applied Polymer Science, 2014, 131, .	1.3	52
27	Influence of Composition Distribution and Branch Content on the Miscibility of m-LLDPE and HDPE Blends:Â Rheological Investigationâ€. Macromolecules, 2003, 36, 2024-2031.	2.2	51
28	Effect of electrolytes on electrokinetics and flocculation behavior of bentonite-polyacrylamide dispersions. Applied Clay Science, 2018, 158, 46-54.	2.6	50
29	Effect of CO2 adsorption on enhanced natural gas recovery and sequestration in carbonate reservoirs. Journal of Natural Gas Science and Engineering, 2018, 55, 575-584.	2.1	50
30	Clay minerals damage quantification in sandstone rocks using core flooding and NMR. Journal of Petroleum Exploration and Production, 2019, 9, 593-603.	1.2	50
31	BET, FTIR, and RAMAN characterizations of activated carbon from wasteoil fly ash. Turkish Journal of Chemistry, 2020, 44, 279-295.	0.5	50
32	Applications of Chelating Agents in the Upstream Oil and Gas Industry: A Review. Energy & Fuels, 2020, 34, 15593-15613.	2.5	49
33	Thermomechanical degradation in the preparation of polyethylene blends. Polymer Degradation and Stability, 2000, 68, 381-392.	2.7	47
34	Influence of Mw of LDPE and vinyl acetate content of EVA on the rheology of polymer modified asphalt. Rheologica Acta, 2005, 45, 92-104.	1.1	47
35	Synthesis of activated carbon from oil fly ash for removal of H2S from gas stream. Applied Surface Science, 2015, 327, 107-115.	3.1	47
36	Rheological investigation of the influence of molecular structure on natural and accelerated UV degradation of linear low density polyethylene. Polymer Degradation and Stability, 2007, 92, 2026-2032.	2.7	44

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37	Effect of water salinity on surfactant-stabilized waterâ€“oil emulsions flow characteristics. Experimental Thermal and Fluid Science, 2015, 64, 54-61.	1.5	44
38	Intercalation of ionic liquids into bentonite: Swelling and rheological behaviors. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 507, 141-151.	2.3	44
39	Effects of sodium carbonate addition, heat and agitation on swelling and rheological behavior of Ca-bentonite colloidal dispersions. Applied Clay Science, 2017, 147, 176-183.	2.6	44
40	Rheological study of the miscibility of LLDPE/LDPE blends and the influence ofTmix. Polymer Engineering and Science, 2001, 41, 696-701.	1.5	43
41	Investigation of the Rheological Properties of Nanosilica-Reinforced Polyacrylamide/Polyethyleneimine Gels for Wellbore Strengthening at High Reservoir Temperatures. Energy & Fuels, 2019, 33, 6829-6836.	2.5	41
42	Effect of Short Chain Branching of LDPE on its Miscibility with Linear HDPE. Macromolecular Materials and Engineering, 2004, 289, 198-203.	1.7	40
43	Dependence of electrical properties of polyethylene nanocomposites on aspect ratio of carbon nanotubes. Polymer Composites, 2013, 34, 494-499.	2.3	40
44	Asphalt modification using acid treated waste oil fly ash. Construction and Building Materials, 2014, 70, 201-209.	3.2	40
45	Rheological study of the influence of branch content on the miscibility of octene m-LLDPE and ZN-LLDPE in LDPE. Polymer Engineering and Science, 2004, 44, 660-672.	1.5	37
46	Rheological investigation of the influence of acrylate polymers on the modification of asphalt. Journal of Applied Polymer Science, 2006, 102, 3446-3456.	1.3	37
47	Rheological study of heterogeneities in melt blends of ZN-LLDPE and LDPE: Influence of Mw and comonomer type, and implications for miscibility. Rheologica Acta, 2004, 43, 602-614.	1.1	35
48	Use of organoclay as a stabilizer for water-in-oil emulsions under high-temperature high-salinity conditions. Journal of Petroleum Science and Engineering, 2018, 160, 302-312.	2.1	34
49	Effects of branching characteristics and copolymer composition distribution on non-isothermal crystallization kinetics of metallocene LLDPEs. European Polymer Journal, 2007, 43, 599-610.	2.6	33
50	Flow characteristics of surfactant stabilized water-in-oil emulsions. Chemical Engineering Research and Design, 2014, 92, 405-412.	2.7	32
51	Parametric study for saline water electrolysis: Part IIâ€”Chlorine evolution, selectivity and determination. International Journal of Hydrogen Energy, 1993, 18, 545-551.	3.8	31
52	Novel fluorinated surfactants for enhanced oil recovery in carbonate reservoirs. Canadian Journal of Chemical Engineering, 2016, 94, 454-460.	0.9	31
53	Development of efficient formulation for the removal of iron sulphide scale in sour production wells. Canadian Journal of Chemical Engineering, 2018, 96, 2526-2533.	0.9	31
54	Melt miscibility and mechanical properties of metallocene linear low-density polyethylene blends with high-density polyethylene: influence of comonomer type. Polymer International, 2005, 54, 1330-1336.	1.6	30

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55	Rheology of a viscoelastic zwitterionic surfactant used in acid stimulation: Effects of surfactant and electrolyte concentration. Journal of Petroleum Science and Engineering, 2014, 124, 341-349.	2.1	30
56	DSC investigation of the gelation kinetics of emulsified PAM/PEI system. Journal of Thermal Analysis and Calorimetry, 2015, 122, 1117-1123.	2.0	30
57	Molecular and electronic structure elucidation of Fe²⁺/Fe³⁺ complexed chelators used in iron sulphide scale removal in oil and gas wells. Canadian Journal of Chemical Engineering, 2019, 97, 2021-2027.	0.9	30
58	Enhancement of surface properties of oil fly ash by chemical treatment. Applied Surface Science, 2011, 258, 1643-1650.	3.1	28
59	Laboratory evaluation of the effects of additives and pH on the thermorheological behavior of a viscoelastic zwitterionic surfactant used in acid stimulation. Journal of Petroleum Science and Engineering, 2014, 122, 458-467.	2.1	28
60	Gelation kinetics of PAM/PEI system. Journal of Thermal Analysis and Calorimetry, 2014, 116, 1409-1415.	2.0	28
61	A theoretical study of gas adsorption on calcite for CO2 enhanced natural gas recovery. Applied Surface Science, 2020, 504, 144575.	3.1	28
62	Parametric study for saline water electrolysis: Part Iâ€"hydrogen production. International Journal of Hydrogen Energy, 1993, 18, 485-489.	3.8	27
63	Influence of branching characteristics on thermal and mechanical properties of Ziegler-Natta and metallocene hexene linear low-density polyethylene blends with low-density polyethylene. Journal of Applied Polymer Science, 2005, 97, 2488-2498.	1.3	27
64	Chemical modification of waste oil fly ash for improved mechanical and thermal properties of low density polyethylene composites. Journal of Polymer Research, 2011, 18, 2275-2284.	1.2	27
65	Implications of melt compatibility/incompatibility on thermal and mechanical properties of metallocene and Zieglerâ€"Natta linear low density polyethylene(LLDPE) blends with high density polyethylene(HDPE): influence of composition distribution and branch content of LLDPE. Polymer International, 2004, 53, 1327-1335.	1.6	26
66	Co-sensitization of TiO 2 -MWCNTs hybrid anode for efficient dye-sensitized solar cells. Electrochimica Acta, 2015, 173, 607-612.	2.6	26
67	Pressure drop reduction of stable water-in-oil emulsions using organoclays. Applied Clay Science, 2014, 95, 303-309.	2.6	25
68	Performance of <scp>PAM/PEI</scp> gel system for water shutâ€off in high temperature reservoirs: Laboratory study. Journal of Applied Polymer Science, 2015, 132, .	1.3	25
69	Improving the efficiency of dye sensitized solar cells by TiO2-graphene nanocomposite photoanode. Photonics and Nanostructures - Fundamentals and Applications, 2015, 16, 34-42.	1.0	25
70	Rheological and thermal properties of novel surfactantâ€polymer systems for EOR applications. Canadian Journal of Chemical Engineering, 2016, 94, 1693-1699.	0.9	24
71	Enhanced photovoltaic performance with co-sensitization of a ruthenium(<scp>ii</scp>) sensitizer and an organic dye in dye-sensitized solar cells. RSC Advances, 2016, 6, 7897-7901.	1.7	24
72	Synthesis, Characterization and Surface Properties of Amidosulfobetaine Surfactants Bearing Oddâ€Number Hydrophobic Tail. Journal of Surfactants and Detergents, 2016, 19, 413-420.	1.0	24

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73	Molecular Modeling Study toward Development of H₂S-Free Removal of Iron Sulfide Scale from Oil and Gas Wells. Industrial & Engineering Chemistry Research, 2018, 57, 10095-10104.	1.8	24
74	Study of the miscibility and mechanical properties of NBR/HNBR blends. Polymer Engineering and Science, 2004, 44, 2346-2352.	1.5	23
75	Influence of molecular parameters and processing conditions on degradation of hydrogenated nitrile butadiene rubbers. Journal of Applied Polymer Science, 2005, 97, 1432-1441.	1.3	23
76	Density functional theory study on dye-sensitized solar cells using oxadiazole-based dyes. Journal of Photonics for Energy, 2015, 5, 053097.	0.8	23
77	Theoretical studies of methane adsorption on Silica-Kaolinite interface for shale reservoir application. Applied Surface Science, 2021, 546, 149164.	3.1	23
78	Development of pH-Controlled Aluminum-Based Polymeric Gel for Conformance Control in Sour Gas Reservoirs. ACS Omega, 2020, 5, 24504-24512.	1.6	23
79	Effect of epolene E-43 as a compatibilizer on the mechanical properties of palm fiber-poly(propylene) composites. Journal of Applied Polymer Science, 2004, 92, 2581-2592.	1.3	22
80	Gelation kinetics of PAM/PEI based drilling mud for lost circulation applications. Journal of Petroleum Science and Engineering, 2021, 200, 108383.	2.1	22
81	Parametric study for saline water electrolysis: Part IIIâ€"Precipitate formation and recovery of magnesium salts. International Journal of Hydrogen Energy, 1993, 18, 553-556.	3.8	21
82	Enhanced Photovoltaic Performance of Dye-Sensitized Solar Cells Using TiO₂-Graphene Microplatelets Hybrid Photoanode. IEEE Journal of Photovoltaics, 2016, 6, 196-201.	1.5	21
83	Hydrothermally grown ZnO electrodes for improved organic photovoltaic devices. Thin Solid Films, 2018, 645, 417-423.	0.8	21
84	Adsorption kinetics and modeling of H₂S by treated waste oil fly ash. Journal of the Air and Waste Management Association, 2019, 69, 246-257.	0.9	21
85	MD simulation of the influence of branch content on collapse and conformation of LLDPE chains crystallizing from highly dilute solutions. Polymer, 2002, 43, 6333-6340.	1.8	20
86	Utilization of sulfur and crumb rubber in asphalt modification. Journal of Applied Polymer Science, 2014, 131, .	1.3	20
87	Thermochemical Upgrading of Calcium Bentonite for Drilling Fluid Applications. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	1.4	20
88	Concurrent adsorption of cationic and anionic dyes from environmental water on amine functionalized carbon. Water Science and Technology, 2020, 81, 466-478.	1.2	20
89	Anomalous nonlinearities in steady shear of polyethylene melts. Journal of Non-Newtonian Fluid Mechanics, 1999, 86, 105-118.	1.0	19
90	Effect of rock mineralogy on Hot-CO2 injection for enhanced gas recovery. Journal of Natural Gas Science and Engineering, 2019, 72, 103030.	2.1	19

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91	Rheology of Triamine Functionalized Silica Reinforced Polymeric Gels Developed for Conformance Control Applications. Energy & Fuels, 2020, 34, 1093-1098.	2.5	19
92	Settling behavior of fine cuttings in fiber-containing polyanionic fluids for drilling and hole cleaning application. Journal of Petroleum Science and Engineering, 2021, 199, 108337.	2.1	19
93	Nonisothermal crystallization kinetics of linear metallocene polyethylenes. Journal of Applied Polymer Science, 2008, 107, 2802-2809.	1.3	18
94	Bulk and surface mechanical properties of clay modified HDPE used in liner applications. Canadian Journal of Chemical Engineering, 2012, 90, 1066-1078.	0.9	18
95	Transport properties of natural gas through polyethylene nanocomposites at high temperature and pressure. Journal of Polymer Research, 2012, 19, 1.	1.2	18
96	Effect of drag reducing polymers on surfactant-stabilized waterâ€“oil emulsions flow. Experimental Thermal and Fluid Science, 2013, 51, 319-331.	1.5	18
97	Evaluation of oil fly ash as a light stabilizer for epoxy composites: Accelerated weathering study. Polymer Degradation and Stability, 2015, 112, 94-103.	2.7	18
98	Evaluation of the Reaction Kinetics of Diethylenetriaminepentaacetic Acid Chelating Agent and a Converter with Barium Sulfate (Barite) Using a Rotating Disk Apparatus. Energy & Fuels, 2018, 32, 9813-9821.	2.5	18
99	Effect of pH on acidic and basic chelating agents used in the removal of iron sulfide scales: A computational study. Journal of Petroleum Science and Engineering, 2019, 178, 649-654.	2.1	18
100	CFD modeling of particle settling in drilling fluids: Impact of fluid rheology and particle characteristics. Journal of Petroleum Science and Engineering, 2021, 199, 108326.	2.1	18
101	Application of Response Surface Methodology and Boxâ€“Behnken Design for the Optimization of the Stability of Fibrous Dispersion Used in Drilling and Completion Operations. ACS Omega, 2021, 6, 2513-2525.	1.6	18
102	Impact of Surfactant on the Retention of CO₂ and Methane in Carbonate Reservoirs. Energy & Fuels, 2018, 32, 5355-5363.	2.5	17
103	Effect of surface morphology on methane interaction with calcite: a DFT study. RSC Advances, 2020, 10, 16669-16674.	1.7	17
104	Enhancement of flocculation and dewaterability of a highly stable activated sludge using a hybrid system of organic coagulants and polyelectrolytes. Journal of Water Process Engineering, 2020, 35, 101237.	2.6	17
105	Nonisothermal crystallization kinetics study of LDPE/MWCNT nanocomposites: Effect of aspect ratio and surface modification. Journal of Applied Polymer Science, 2011, 119, 290-299.	1.3	16
106	Correlation of Polymerization Conditions with Thermal and Mechanical Properties of Polyethylenes Made with Ziegler-Natta Catalysts. International Journal of Polymer Science, 2014, 2014, 1-10.	1.2	16
107	Influence of molecular structure on the rheology and thermorheology of metallocene polyethylenes. Journal of Applied Polymer Science, 2006, 102, 1717-1728.	1.3	15
108	Use of modified oil fly ash to enhance asphalt concrete performance. Materials and Structures/Materiaux Et Constructions, 2015, 48, 3231-3240.	1.3	15

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109	Improvement in Photovoltaic Performance of Dye Sensitized Solar Cell Using Activated Carbon-TiO₂Composites-Based Photoanode. IEEE Journal of Photovoltaics, 2016, 6, 1191-1195.	1.5	15
110	Stimulation of high temperature carbonate gas reservoirs using seawater and chelating agents: Reaction kinetics. Journal of Natural Gas Science and Engineering, 2018, 55, 595-605.	2.1	15
111	Gelation of Emulsified Polyacrylamide/Polyethylenimine under High-Temperature, High-Salinity Conditions: Rheological Investigation. Industrial & Engineering Chemistry Research, 2018, 57, 12278-12287.	1.8	15
112	Ab Initio molecular dynamics of the dissolution of oilfield pyrite scale using borax. Journal of Molecular Liquids, 2020, 302, 112500.	2.3	15
113	Impact of clays on CO2 adsorption and enhanced gas recovery in sandstone reservoirs. International Journal of Greenhouse Gas Control, 2021, 106, 103286.	2.3	15
114	DSC Evidence for Microstructure and Phase Transitions in Polyethylene Melts at High Temperatures. Macromolecules, 2000, 33, 520-522.	2.2	14
115	Could VES be a part of a Hybrid Option to Recover Heavy oil in Complex Heavy oil Reservoirs. , 2014, , .		14
116	Rheological Assessment of VES as an EOR Fluid in Carbonate Reservoir. , 2014, , .		14
117	An Investigation of the Swelling Kinetics of Bentonite Systems Using Particle Size Analysis. Journal of Dispersion Science and Technology, 2020, 41, 817-827.	1.3	14
118	Review of Iron Sulfide Scale Removal and Inhibition in Oil and Gas Wells: Current Status and Perspectives. Energy & Fuels, 2021, 35, 14401-14421.	2.5	14
119	Development of a Polyacrylamide-Based Mud Formulation for Loss Circulation Treatments. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	14
120	Rheological evidence for high-temperature phase transitions in melts of high-density polyethylene. Macromolecular Rapid Communications, 1998, 19, 323-325.	2.0	13
121	Melt Miscibility and Mechanical Properties of Metallocene LLDPE blends with HDPE: Influence of Mw of LLDPE. Polymer Journal, 2006, 38, 1114-1126.	1.3	13
122	Rheological behavior of associating ionic polymers based on diallylammonium salts containing single-, twin-, and triple-tailed hydrophobes. European Polymer Journal, 2010, 46, 1063-1073.	2.6	13
123	New 1,3,4-Oxadiazole Based Photosensitizers for Dye Sensitized Solar Cells (DSSCs). International Journal of Photoenergy, 2015, 2015, 1-8.	1.4	13
124	Density Functional Theory Study on the Electronic Structures of Oxadiazole Based Dyes as Photosensitizer for Dye Sensitized Solar Cells. Advances in Materials Science and Engineering, 2015, 2015, 1-8.	1.0	13
125	Copper(II) Triflate Catalyzed Synthesis of 2,4-Disubstituted Oxazoles from Î±-Diazoketones. Synthesis, 2015, 47, 3315-3320.	1.2	13
126	Enhancing Power Conversion Efficiency of Dye-Sensitized Solar Cell Using TiO₂-MWCNT Composite Photoanodes. IEEE Journal of Photovoltaics, 2016, 6, 486-490.	1.5	13

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127	Pyrite Scale Removal Using Green Formulations for Oil and Gas Applications: Reaction Kinetics. Energy & Fuels, 2019, 33, 4499-4505.	2.5	12
128	Predicting carbonate formation permeability using machine learning. Journal of Petroleum Science and Engineering, 2020, 195, 107581.	2.1	12
129	Destabilization of stable bentonite colloidal suspension using choline chloride based deep eutectic solvent: Optimization study. Journal of Water Process Engineering, 2021, 40, 101885.	2.6	12
130	A CFD- RSM study of cuttings transport in non-Newtonian drilling fluids: Impact of operational parameters. Journal of Petroleum Science and Engineering, 2022, 208, 109613.	2.1	12
131	Influence of branch content, comonomer type, and crosshead speed on the mechanical properties of metallocene linear low-density polyethylenes. Journal of Applied Polymer Science, 2006, 100, 5019-5033.	1.3	11
132	Pressure Drop Reduction of Stable Emulsions: Role of Aqueous Phase Salinity. , 2013, , .		11
133	Impact of aspect ratio and CNT loading on the dynamic mechanical and flammability properties of polyethylene nanocomposites. E-Polymers, 2014, 14, 57-63.	1.3	11
134	Epoxy/oil fly ash composites prepared through in situ polymerization: Enhancement of thermal and mechanical properties. Polymer Composites, 2016, 37, 512-522.	2.3	11
135	Impact of branching on the UV degradation of metallocene LLDPE. Journal of Polymer Research, 2011, 18, 1567-1573.	1.2	10
136	Effect of outdoor temperature on the power-conversion efficiency of newly synthesized organic photosensitizer based dye-sensitized solar cells. Materials Letters, 2018, 220, 222-225.	1.3	10
137	Upgrading Calcium Bentonite to Sodium Bentonite Using Seawater and Soda Ash. Energy & Fuels, 2019, 33, 10888-10894.	2.5	10
138	Reinforcement of Polyacrylamide-Co-Tert-Butyl Acrylate Base Gel Using Nanosilica for Conformance Control at Low and High Reservoir Temperatures. , 2020, , .		10
139	A theoretical study of gas adsorption on Î±-quartz (0Â0Â1) for CO2 enhanced natural gas recovery. Applied Surface Science, 2020, 525, 146472.	3.1	10
140	CFD Analysis of Turbulent Flow of Power-Law Fluid in a Partially Blocked Eccentric Annulus. Energies, 2021, 14, 731.	1.6	10
141	A robust fuzzy logic-based model for predicting the critical total drawdown in sand production in oil and gas wells. PLoS ONE, 2021, 16, e0250466.	1.1	10
142	Calcite Scale Inhibition Using Environmental-Friendly Amino Acid Inhibitors: DFT Investigation. ACS Omega, 2021, 6, 32120-32132.	1.6	10
143	Adsorption of CO2 on Cu/SiO2 nano-catalyst: Experimental and theoretical study. Applied Surface Science, 2022, 586, 152726.	3.1	10
144	Effect of Polymerization Conditions on Thermal and Mechanical Properties of Ethylene/1-Butene Copolymer Made with Ziegler-Natta Catalysts. International Journal of Polymer Science, 2014, 2014, 1-10.	1.2	9

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145	Thermorheology of Polyethylene Wax Modified Sulfur Asphalt. International Polymer Processing, 2015, 30, 202-209.	0.3	9
146	Influence of polyelectrolyte architecture on the electrokinetics and dewaterability of industrial membrane bioreactor activated sludge. Journal of Environmental Management, 2019, 233, 410-416.	3.8	9
147	Investigation of Filter Cake Evolution in Carbonate Formation Using Polymer-Based Drilling Fluid. ACS Omega, 2021, 6, 6231-6239.	1.6	9
148	Density-Functional Theory Investigation of Barite Scale Inhibition Using Phosphonate and Carboxyl-Based Inhibitors. ACS Omega, 2020, 5, 33323-33328.	1.6	9
149	Synthesis and evaluation of a novel polyacrylamide functionalized nano-silica as a calcium carbonate inhibitor in upstream applications. Journal of Petroleum Science and Engineering, 2022, 209, 109864.	2.1	9
150	Influence of branch content on the microstructure of blends of linear and octene-branched polyethylene: a MD simulation study. European Polymer Journal, 2004, 40, 1177-1182.	2.6	8
151	Effect of chemical modification of oil fly ash and compatibilization on the rheological and morphological properties of lowâ€density polyethylene composites. Journal of Applied Polymer Science, 2011, 122, 2486-2496.	1.3	8
152	Impact of organoclay and maleated polyethylene on the rheology and instabilities in the extrusion of high density polyethylene. Journal of Applied Polymer Science, 2012, 123, 866-878.	1.3	8
153	An Experimental and Kinetic Study of the Sorption of Carbon Dioxide onto Amine-Treated Oil Fly Ash. Journal of Chemistry, 2016, 2016, 1-11.	0.9	8
154	Influence of natural gas composition on adsorption in calcite Nanopores: A DFT study. Applied Surface Science, 2021, 568, 150940.	3.1	8
155	Chitosan/Polyacrylamide Green Gels for Water Control in High-Temperature Reservoirs. Energy & Fuels, 2022, 36, 3816-3824.	2.5	8
156	Implications of LDPE Branching and Mw on Thermal and Mechanical Properties of PP/LDPE Blends. Macromolecular Symposia, 2008, 263, 130-137.	0.4	7
157	Rheology and enhancement of extrusion of linear and branched polyethylenes using low amount of organoclay. Journal of Applied Polymer Science, 2012, 126, 713-723.	1.3	7
158	Large CO₂ uptake on a monolayer of CaO. Journal of Materials Chemistry A, 2017, 5, 2110-2114.	5.2	7
159	Development of a New Borax-Based Formulation for the Removal of Pyrite Scales. ACS Omega, 2020, 5, 14308-14315.	1.6	7
160	Influence of Polymer Type and Structure on Polymer Modified Asphalt Concrete Mix. Canadian Journal of Chemical Engineering, 2006, 84, 480-487.	0.9	6
161	Effect of long chain branching on the properties of polyethylene synthesized via metallocene catalysis. Polymer Science - Series B, 2014, 56, 707-720.	0.3	6
162	Rheology of organoclay assisted extrusion of HDPE using Particle Image Velocimetry. Chemical Engineering Research and Design, 2015, 100, 113-125.	2.7	6

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163	Ab Initio Molecular Dynamics Investigation of CH₄/CO₂ Adsorption on Calcite: Improving the Enhanced Gas Recovery Process. ACS Omega, 2020, 5, 30226-30236.	1.6	6
164	Molecular Design of Novel Chemicals for Iron Sulfide Scale Removal. Journal of Chemistry, 2021, 2021, 1-11.	0.9	6
165	Gelation kinetics of functionalized silica crosslinked polymeric gels used in conformance control applications. Canadian Journal of Chemical Engineering, 2021, 99, 2219-2228.	0.9	6
166	Enhancing the flocculation of stable bentonite suspension using hybrid system of polyelectrolytes and NADES. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 638, 128305.	2.3	6
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