

# Farid B Corts

## List of Publications by Citations

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134  
papers

3,078  
citations

29  
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50  
g-index

138  
ext. papers

3,680  
ext. citations

3.9  
avg, IF

5.86  
L-index

#	Paper	IF	Citations
134	Wettability Alteration of Sandstone Cores by Alumina-Based Nanofluids. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 3659-3665	4.1	261
133	Nanoparticles for Inhibition of Asphaltenes Damage: Adsorption Study and Displacement Test on Porous Media. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 2899-2907	4.1	147
132	Effect of nanoparticles/nanofluids on the rheology of heavy crude oil and its mobility on porous media at reservoir conditions. <i>Fuel</i> , <b>2016</b> , 184, 222-232	7.1	112
131	Adsorption and Subsequent Oxidation of Colombian Asphaltenes onto Nickel and/or Palladium Oxide Supported on Fumed Silica Nanoparticles. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 7336-7347	4.1	94
130	Kinetic and thermodynamic equilibrium of asphaltenes sorption onto nanoparticles of nickel oxide supported on nanoparticulated alumina. <i>Fuel</i> , <b>2013</b> , 105, 408-414	7.1	91
129	Development of a Population Balance Model to Describe the Influence of Shear and Nanoparticles on the Aggregation and Fragmentation of Asphaltene Aggregates. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 8201-8211	3.9	83
128	Nanotechnology applied to the enhancement of oil and gas productivity and recovery of Colombian fields. <i>Journal of Petroleum Science and Engineering</i> , <b>2017</b> , 157, 39-55	4.4	81
127	Role of Particle Size and Surface Acidity of Silica Gel Nanoparticles in Inhibition of Formation Damage by Asphaltene in Oil Reservoirs. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 6122-6132	3.9	78
126	A Novel Solid-Liquid Equilibrium Model for Describing the Adsorption of Associating Asphaltene Molecules onto Solid Surfaces Based on the "Chemical Theory". <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 4963-4975	4.1	75
125	The effects of SiO <sub>2</sub> nanoparticles on the thermal stability and rheological behavior of hydrolyzed polyacrylamide based polymeric solutions. <i>Journal of Petroleum Science and Engineering</i> , <b>2017</b> , 159, 841-852	4.4	74
124	Adsorptive removal of oil spill from oil-in-fresh water emulsions by hydrophobic alumina nanoparticles functionalized with petroleum vacuum residue. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 425, 168-77	9.3	73
123	Effects of Resin I on Asphaltene Adsorption onto Nanoparticles: A Novel Method for Obtaining Asphaltenes/Resin Isotherms. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 264-272	4.1	71
122	Experimental and Theoretical Study of Viscosity Reduction in Heavy Crude Oils by Addition of Nanoparticles. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 1329-1338	4.1	70
121	Sorption of Asphaltenes onto Nanoparticles of Nickel Oxide Supported on Nanoparticulated Silica Gel. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 1725-1730	4.1	68
120	Importance of the Adsorption Method Used for Obtaining the Nanoparticle Dosage for Asphaltene-Related Treatments. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 2052-2059	4.1	65
119	Interaction of anionic surfactant-nanoparticles for gas - Wettability alteration of sandstone in tight gas-condensate reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , <b>2018</b> , 51, 53-64	4.6	56
118	Influence of Asphaltene Aggregation on the Adsorption and Catalytic Behavior of Nanoparticles. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 1610-1621	4.1	56

117	Water sorption on silica- and zeolite-supported hygroscopic salts for cooling system applications. <i>Energy Conversion and Management</i> , <b>2012</b> , 53, 219-223	10.6	53
116	Rheological demonstration of alteration in the heavy crude oil fluid structure upon addition of nanoparticles. <i>Fuel</i> , <b>2017</b> , 189, 322-333	7.1	51
115	Removal of oil from oil-in-saltwater emulsions by adsorption onto nano-alumina functionalized with petroleum vacuum residue. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 433, 58-67	9.3	48
114	Effect of oxide support on NiPd bimetallic nanocatalysts for steam gasification of n-C 7 asphaltenes. <i>Fuel</i> , <b>2015</b> , 156, 110-120	7.1	46
113	Effects of Surface Acidity and Polarity of SiO <sub>2</sub> Nanoparticles on the Foam Stabilization Applied to Natural Gas Flooding in Tight Gas-Condensate Reservoirs. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 5824-5833	4.1	38
112	Kinetics and mechanisms of the catalytic thermal cracking of asphaltenes adsorbed on supported nanoparticles. <i>Petroleum Science</i> , <b>2016</b> , 13, 561-571	4.4	38
111	Nanotechnology Applied to Thermal Enhanced Oil Recovery Processes: A Review. <i>Energies</i> , <b>2019</b> , 12, 4671	3.1	37
110	Modeling and Prediction of Asphaltene Adsorption Isotherms Using Polanyi Modified Theory. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 2908-2914	4.1	36
109	A novel foam formulation by Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> nanoparticles for EOR applications: A mechanistic study. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 304, 112730	6	32
108	A New Model for Describing the Adsorption of Asphaltenes on Porous Media at a High Pressure and Temperature under Flow Conditions. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 4210-4221	4.1	31
107	Development of Composite Materials Based on the Interaction between Nanoparticles and Surfactants for Application in Chemical Enhanced Oil Recovery. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 12367-12377	3.9	30
106	Viscosity reduction of extra heavy crude oil by magnetite nanoparticle-based ferrofluids. <i>Adsorption Science and Technology</i> , <b>2018</b> , 36, 23-45	3.6	29
105	Enhanced waterflooding with NiO/SiO <sub>2</sub> 0-D Janus nanoparticles at low concentration. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 174, 40-48	4.4	28
104	Effect of nanoparticle inclusion in fracturing fluids applied to tight gas-condensate reservoirs: Reduction of Methanol loading and the associated formation damage. <i>Journal of Natural Gas Science and Engineering</i> , <b>2017</b> , 40, 347-355	4.6	27
103	Effect of temperature on antioxidant capacity during drying process of morti (Vaccinium meridionale Swartz). <i>International Journal of Food Properties</i> , <b>2017</b> , 20, 294-305	3	26
102	Importance of the Nanofluid Preparation for Ultra-Low Interfacial Tension in Enhanced Oil Recovery Based on Surfactant-Nanoparticle-Brine System Interaction. <i>ACS Omega</i> , <b>2019</b> , 4, 16171-16180 <sup>3.9</sup>	3.9	26
101	Optimization of the Load of Transition Metal Oxides (FeO, CoO, NiO and/or PdO) onto CeO <sub>2</sub> Nanoparticles in Catalytic Steam Decomposition of -C <sub>1</sub> Asphaltenes at Low Temperatures. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	26
100	Water Remediation Based on Oil Adsorption Using Nanosilicates Functionalized with a Petroleum Vacuum Residue. <i>Adsorption Science and Technology</i> , <b>2014</b> , 32, 197-207	3.6	26

99	Effect of Magnetic Iron CoreCarbon Shell Nanoparticles in Chemical Enhanced Oil Recovery for Ultralow Interfacial Tension Region. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 4158-4168	4.1	25
98	Effects of resin I on the catalytic oxidation of n-C7 asphaltenes in the presence of silica-based nanoparticles. <i>RSC Advances</i> , <b>2016</b> , 6, 74630-74642	3.7	25
97	Immobilization of Andean berry ( <i>Vaccinium meridionale</i> ) polyphenols on nanocellulose isolated from banana residues: A natural food additive with antioxidant properties. <i>Food Chemistry</i> , <b>2019</b> , 294, 503-517	8.5	23
96	Effect of Pressure on the Oxidation Kinetics of Asphaltenes. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 10734-10744	4.1	23
95	Adsorption-desorption of n-C7 asphaltenes over micro- and nanoparticles of silica and its impact on wettability alteration. <i>CTyF - Ciencia, Tecnologia Y Futuro</i> , <b>2016</b> , 6, 89-106	0.5	23
94	Development and Evaluation of Surfactant Nanocapsules for Chemical Enhanced Oil Recovery (EOR) Applications. <i>Molecules</i> , <b>2018</b> , 23,	4.8	22
93	Effect of Sodium Oleate Surfactant Concentration Grafted onto SiO Nanoparticles in Polymer Flooding Processes. <i>ACS Omega</i> , <b>2018</b> , 3, 18673-18684	3.9	22
92	Influence of the Ce/Ce Redox-Couple on the Cyclic Regeneration for Adsorptive and Catalytic Performance of NiO-PdO/CeO Nanoparticles for -C Asphaltene Steam Gasification. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	21
91	Development of Nanofluids for Perdurability in Viscosity Reduction of Extra-Heavy Oils. <i>Energies</i> , <b>2019</b> , 12, 1068	3.1	21
90	Upgrading of Extra-Heavy Crude Oils by Dispersed Injection of NiO-PdO/CeO Nanocatalyst-Based Nanofluids in the Steam. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	21
89	Effect of SiO <sub>2</sub> -based nanofluids in the reduction of naphtha consumption for heavy and extra-heavy oils transport: Economic impacts on the Colombian market. <i>Energy Conversion and Management</i> , <b>2017</b> , 148, 30-42	10.6	20
88	Thermo-Oxidative Decomposition Behaviors of Different Sources of n-C7 Asphaltenes under High-Pressure Conditions. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 8740-8758	4.1	20
87	Suppression of Phase Separation as a Hypothesis to Account for Nuclei or Nanoaggregate Formation by Asphaltenes in Toluene. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 6669-6677	4.1	20
86	A microfluidic study to investigate the effect of magnetic iron core-carbon shell nanoparticles on displacement mechanisms of crude oil for chemical enhanced oil recovery. <i>Journal of Petroleum Science and Engineering</i> , <b>2020</b> , 184, 106589	4.4	20
85	Effect of Textural Properties and Surface Chemical Nature of Silica Nanoparticles from Different Silicon Sources on the Viscosity Reduction of Heavy Crude Oil. <i>ACS Omega</i> , <b>2020</b> , 5, 5085-5097	3.9	19
84	Metal Oxide Nanoparticles Supported on Macro-Mesoporous Aluminosilicates for Catalytic Steam Gasification of Heavy Oil Fractions for On-Site Upgrading. <i>Catalysts</i> , <b>2017</b> , 7, 319	4	19
83	Improving the stability of nitrogen foams using silica nanoparticles coated with polyethylene glycol. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 300, 112256	6	19
82	Design and Tuning of Nanofluids Applied to Chemical Enhanced Oil Recovery Based on the Surfactant-Nanoparticle-Brine Interaction: From Laboratory Experiments to Oil Field Application. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	18

81	Effect of Multifunctional Nanocatalysts on n-C7 Asphaltene Adsorption and Subsequent Oxidation under High-Pressure Conditions. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 6261-6278	4.1	16
80	Adsorption of water on Grace Silica Gel 127B at low and high pressure. <i>Adsorption</i> , <b>2011</b> , 17, 977-984	2.6	16
79	Ca-DTPMP nanoparticles-based nanofluids for the inhibition and remediation of formation damage due to CaCO <sub>3</sub> scaling in tight gas-condensate reservoirs. <i>Journal of Petroleum Science and Engineering</i> , <b>2018</b> , 169, 636-645	4.4	16
78	Effect of the nanoparticles in the stability of hydrolyzed polyacrylamide/resorcinol/formaldehyde gel systems for water shut-off/conformance control applications. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47568	2.9	15
77	Improvement of Steam Injection Processes Through Nanotechnology: An Approach through in Situ Upgrading and Foam Injection. <i>Energies</i> , <b>2019</b> , 12, 4633	3.1	15
76	Cardanol/SiO <sub>2</sub> Nanocomposites for Inhibition of Formation Damage by Asphaltene Precipitation/Deposition in Light Crude Oil Reservoirs. Part I: Novel Nanocomposite Design Based on SiO <sub>2</sub> /Cardanol Interactions. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 7048-7057	4.1	14
75	Functionalization of $\gamma$ -Alumina and Magnesia Nanoparticles with a Fluorocarbon Surfactant to Promote Ultra-Gas-Wet Surfaces: Experimental and Theoretical Approach. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13510-13520	9.5	14
74	Polifenoles y Actividad Antioxidante del Fruto de Guayaba Agria (Psidium araca). <i>Informacion Tecnologica (discontinued)</i> , <b>2013</b> , 24, 103-112	0.9	14
73	A rapid and novel approach for predicting water sorption isotherms and isosteric heats of different meat types. <i>Meat Science</i> , <b>2010</b> , 86, 921-5	6.4	14
72	Adsorption and catalytic oxidation of asphaltenes in fumed silica nanoparticles: Effect of the surface acidity. <i>DYNA (Colombia)</i> , <b>2016</b> , 83, 171	0.6	14
71	Effect of the NiO/SiO <sub>2</sub> Nanoparticles-Assisted Ultrasound Cavitation Process on the Rheological Properties of Heavy Crude Oil: Steady State Rheometry and Oscillatory Tests. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 9671-9680	4.1	13
70	NiO, Fe <sub>2</sub> O <sub>3</sub> , and MoO <sub>3</sub> Supported over SiO <sub>2</sub> Nanocatalysts for Asphaltene Adsorption and Catalytic Decomposition: Optimization through a Simplex-Centroid Mixture Design of Experiments. <i>Catalysts</i> , <b>2020</b> , 10, 569	4	13
69	Chemical Alteration of Wettability of Sandstones with Polysorbate 80. Experimental and Molecular Dynamics Study. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 11918-11924	4.1	12
68	Effect of Nanoparticles with Different Chemical Nature on the Stability and Rheology of Acrylamide Sodium Acrylate Copolymer/Chromium (III) Acetate Gel for Conformance Control Operations. <i>Nanomaterials</i> , <b>2019</b> , 10,	5.4	12
67	Theoretical-experimental evaluation of rheological behavior of asphaltene solutions in toluene and p-xylene: Effect of the additional methyl group. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 303, 112664	6	11
66	Nano-Intermediate of Magnetite Nanoparticles Supported on Activated Carbon from Spent Coffee Grounds for Treatment of Wastewater from Oil Industry and Energy Production. <i>Processes</i> , <b>2021</b> , 9, 63	2.9	11
65	Physicochemical characteristics of calcined MnFeO solid nanospheres and their catalytic activity to oxidize para-nitrophenol with peroxymonosulfate and n-C asphaltenes with air. <i>Journal of Environmental Management</i> , <b>2021</b> , 281, 111871	7.9	11
64	Influence of silica nanoparticles on heavy oil microrheology via time-domain NMR T <sub>2</sub> and diffusion probes. <i>Fuel</i> , <b>2019</b> , 241, 962-972	7.1	11

63	Reduction of heavy oil viscosity through ultrasound cavitation assisted by NiO nanocrystals-functionalized SiO <sub>2</sub> nanoparticles. <i>DYNA (Colombia)</i> , <b>2018</b> , 85, 153-160	0.6	11
62	Dynamic Molecular Modeling and Experimental Approach of Fluorocarbon Surfactant-Functionalized SiO <sub>2</sub> Nanoparticles for Gas-Wettability Alteration on Sandstones. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 1860-1872	2.8	10
61	Development of Nanofluids for the Inhibition of Formation Damage Caused by Fines Migration: Effect of the interaction of Quaternary Amine (CTAB) and MgO Nanoparticles. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	10
60	Easy and Rapid Synthesis of Carbon Quantum Dots from Morti <sup>®</sup> (Vaccinium Meridionale Swartz) Extract for Use as Green Tracers in the Oil and Gas Industry: Lab-to-Field Trial Development in Colombia. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 11359-11369	3.9	10
59	Mathematical model of the sorption phenomenon of methanol in activated coal. <i>Energy Conversion and Management</i> , <b>2009</b> , 50, 1295-1303	10.6	10
58	Anomalous Heavy-Oil Rheological Thinning Behavior upon Addition of Nanoparticles: Departure from Einstein <sup>®</sup> Theory. <i>Chemical Engineering Communications</i> , <b>2017</b> , 204, 648-657	2.2	9
57	Effect of Relative Humidity on the Antioxidant Activity of Spray-Dried Banana Passion Fruit (Passiflora Mollissima Baley)-Coated Pulp: Measurement of the Thermodynamic Properties of Sorption. <i>Chemical Engineering Communications</i> , <b>2015</b> , 202, 269-278	2.2	9
56	Investigating the Performance of Carboxylate-Alumoxane Nanoparticles as a Novel Chemically Functionalized Inhibitor on Asphaltene Precipitation. <i>ACS Omega</i> , <b>2020</b> , 5, 16149-16164	3.9	9
55	Effect of resin/asphaltene ratio on the rheological behavior of asphaltene solutions in a de-asphalted oil and p-xylene: A theoretical <sup>®</sup> experimental approach. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 315, 113754	6	9
54	Field Applications of Nanotechnology in the Oil and Gas Industry: Recent Advances and Perspectives. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 19266-19287	4.1	9
53	Effects of glycerol on the minimization of water readsorption on sub-bituminous coal. <i>Drying Technology</i> , <b>2017</b> , 35, 249-260	2.6	8
52	Immobilization of on Activated Carbons for Degradation of Hydrocarbons from Oil-in-Saltwater Emulsions. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	8
51	Novel biomaterial design based on Pseudomonas stutzeri <sup>®</sup> carbon xerogel microspheres for hydrocarbon removal from oil-in-saltwater emulsions: A new proposed treatment of produced water in oilfields. <i>Journal of Water Process Engineering</i> , <b>2020</b> , 35, 101222	6.7	8
50	An Enhanced-Solvent Deasphalting Process: Effect of Inclusion of SiO <sub>2</sub> Nanoparticles in the Quality of Deasphalted Oil. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-14	3.2	8
49	Effect of the Asphaltene Oxidation Process on the Formation of Emulsions of Water in Oil (W/O) Model Solutions. <i>Energies</i> , <b>2018</b> , 11, 722	3.1	7
48	Monolithic carbon xerogels-metal composites for crude oil removal from oil in-saltwater emulsions and subsequent regeneration through oxidation process: Composites synthesis, adsorption studies, and oil decomposition experiments. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 319, 111039	5.3	7
47	A novel design of silica-based completion nanofluids for heavy oil reservoirs. <i>Journal of Petroleum Science and Engineering</i> , <b>2020</b> , 194, 107483	4.4	6
46	Remoci <sup>®</sup> de hidrocarburos de aguas de producci <sup>®</sup> de la industria petrolera utilizando nanointermedios compuestos por SiO <sub>2</sub> funcionalizados con nanopart <sup>®</sup> culas magn <sup>®</sup> ficas. <i>DYNA (Colombia)</i> , <b>2017</b> , 84, 65-74	0.6	6

45	Cardanol /SiO Nanocomposites for Inhibition of Formation Damage by Asphaltene Precipitation/Deposition in Light Crude Oil Reservoirs. Part II: Nanocomposite Evaluation and Coreflooding Test. <i>ACS Omega</i> , <b>2020</b> , 5, 27800-27810	3.9	6
44	Catalytic Conversion of -C Asphaltenes and Resins II into Hydrogen Using CeO-Based Nanocatalysts. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	6
43	Effect of Steam Quality on Extra-Heavy Crude Oil Upgrading and Oil Recovery Assisted with PdO and NiO-Functionalized Al <sub>2</sub> O <sub>3</sub> Nanoparticles. <i>Processes</i> , <b>2021</b> , 9, 1009	2.9	6
42	Phenomenological study of the micro- and macroscopic mechanisms during polymer flooding with SiO <sub>2</sub> nanoparticles. <i>Journal of Petroleum Science and Engineering</i> , <b>2021</b> , 198, 108135	4.4	6
41	Molecular Dynamics Study of the Aggregation Behavior of Polycyclic Aromatic Hydrocarbon Molecules in n-HeptaneToluene Mixtures: Assessing the Heteroatom Content Effect. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 3119-3129	4.1	6
40	The effects of chemical composition of fines and nanoparticles on inhibition of formation damage caused by fines migration: Insights through a simplex-centroid mixture design of experiments. <i>Journal of Petroleum Science and Engineering</i> , <b>2021</b> , 203, 108494	4.4	6
39	Influence of size and surface acidity of silica nanoparticles on inhibition of the formation damage by bentonite-free water-based drilling fluids. Part II: dynamic filtration. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , <b>2020</b> , 11, 015011	1.6	5
38	A New Model for Describing the Rheological Behavior of Heavy and Extra Heavy Crude Oils in the Presence of Nanoparticles. <i>Energies</i> , <b>2017</b> , 10, 2064	3.1	5
37	A New Model for Predicting Sorption Isotherm of Water in Foods. <i>International Journal of Food Engineering</i> , <b>2011</b> , 7,	1.9	5
36	Injection of Nanofluids with Fluorosurfactant-Modified Nanoparticles Dispersed in a Flue Gas Stream at Very Low Concentration for Enhanced Oil Recovery (EOR) in Tight GasCondensate Reservoirs. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 12517-12526	4.1	5
35	Influence of size and surface acidity of silica nanoparticles on inhibition of the formation damage by bentonite-free water-based drilling fluids. Part I: nanofluid design based on fluid-nanoparticle interaction. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , <b>2019</b> , 10, 045020	1.6	5
34	Well injectivity loss during chemical gas stimulation process in gas-condensate tight reservoirs. <i>Fuel</i> , <b>2021</b> , 283, 118931	7.1	5
33	Evaluation of the Sorption Equilibrium and Effect of Drying Temperature on the Antioxidant Capacity of the Jaboticaba ( <i>Myrciaria cauliflora</i> ). <i>Chemical Engineering Communications</i> , <b>2015</b> ,	2.2	4
32	Disaggregation and discretization methods for formation damage estimation in oil and gas fields: an overview. <i>DYNA (Colombia)</i> , <b>2020</b> , 87, 105-115	0.6	4
31	An Enhanced Carbon Capture and Storage Process (e-CCS) Applied to Shallow Reservoirs Using Nanofluids Based on Nitrogen-Rich Carbon Nanospheres. <i>Materials</i> , <b>2019</b> , 12,	3.5	4
30	Sorption Properties of Cape Gooseberry ( <i>Physalis peruviana</i> L.). <i>International Journal of Food Engineering</i> , <b>2012</b> , 8,	1.9	4
29	Effect of surface acidity of SiO <sub>2</sub> nanoparticles on thermal stability of polymer solutions for application in EOR processes. <i>Journal of Petroleum Science and Engineering</i> , <b>2021</b> , 196, 107802	4.4	4
28	Extra-Heavy Crude Oil Viscosity Reduction Using and Reusing Magnetic Copper Ferrite Nanospheres. <i>Processes</i> , <b>2021</b> , 9, 175	2.9	4

27	Theoretical and Experimental Approach for Understanding the Interactions Among SiO <sub>2</sub> Nanoparticles, CaCO <sub>3</sub> , and Xanthan Gum Components of Water-Based Mud. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 4803-4814	4.1	4
26	Biomass-Derived Carbon Molecular Sieves Applied to an Enhanced Carbon Capture and Storage Process (e-CCS) for Flue Gas Streams in Shallow Reservoirs. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	3
25	Insights into the Morphology Effect of Ceria on the Catalytic Performance of NiO/PdO/CeO <sub>2</sub> Nanoparticles for Thermo-oxidation of n-C <sub>7</sub> Asphaltenes under Isothermal Heating at Different Pressures. <i>Energy &amp; Fuels</i> ,	4.1	3
24	Dual-Purpose Materials Based on Carbon Xerogel Microspheres (CXMs) for Delayed Release of Cannabidiol (CBD) and Subsequent Aflatoxin Removal. <i>Molecules</i> , <b>2019</b> , 24,	4.8	2
23	Efecto Térmico del Secado por Aspersión sobre los Metabolitos Antioxidantes de la Curuba Larga ( <i>Passiflora mollissima</i> baley). <i>Informacion Tecnologica (discontinued)</i> , <b>2015</b> , 26, 77-84	0.9	2
22	Emulsions with heavy crude oil in presence of nanoparticles. <i>Boletín De Ciencias De La Tierra</i> , <b>2014</b> , 55-68	0.1	2
21	Compositional characterization and storage capacity of shale samples from La Luna and Conejo Formations (Middle Magdalena basin and the Eastern Cordillera): Implications for evaluation of cretaceous shale gas in Colombia. <i>Boletín De Ciencias De La Tierra</i> , <b>2015</b> , 45-53	0.1	2
20	Effect of ionic strength in low salinity water injection processes. <i>CTyF - Ciencia, Tecnologia Y Futuro</i> , <b>2020</b> , 10, 17-26	0.5	2
19	Development of a monolithic carbon xerogel-metal composite for crude oil removal from oil in-saltwater emulsions: Evaluation of reuse cycles. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 327, 111424	5.3	2
18	Effect of pressure on the thermo-oxidative behavior of saturates, aromatics, and resins (S-Ar-R) mixtures. <i>Fuel</i> , <b>2022</b> , 314, 122787	7.1	1
17	Effect of pressure on thermo-oxidative reactions of saturates, aromatics, and resins (S-Ar-R) from extra-heavy crude oil. <i>Fuel</i> , <b>2021</b> , 122596	7.1	1
16	Physical Insights about Viscosity Differences of Asphaltene Dissolved in Benzene and Xylene Isomers: Theoretical/Experimental Approaches. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 18574-18582	4.1	1
15	A Selection Flowchart for Micromodel Experiments Based on Computational Fluid Dynamic Simulations of Surfactant Flooding in Enhanced Oil Recovery. <i>Processes</i> , <b>2021</b> , 9, 1887	2.9	1
14	Effect of the temperature in adsorption phenomena of water onto Sub-Bituminous coal. <i>Boletín De Ciencias De La Tierra</i> , <b>2016</b> , 57-64	0.1	1
13	Glycerol effect on the inhibition of spontaneous combustion of subbituminous coal. <i>Boletín De Ciencias De La Tierra</i> , <b>2016</b> , 64-74	0.1	1
12	Chemical Composition and Low-Temperature Fluidity Properties of Jet Fuels. <i>Processes</i> , <b>2021</b> , 9, 1184	2.9	0
11	Catalytic Decomposition of n-C <sub>7</sub> Asphaltenes Using Tungsten Oxides-Functionalized SiO <sub>2</sub> Nanoparticles in Steam/Air Atmospheres. <i>Processes</i> , <b>2022</b> , 10, 349	2.9	0
10	Technical and Environmental Feasibility Study of the Co-Production of Crude Oil and Electrical Energy from Geothermal Resources: First Field Trial in Colombia. <i>Processes</i> , <b>2022</b> , 10, 568	2.9	0



9	Freshwater production from air dehumidification using novel SiO <sub>2</sub> -based supported material and solar energy: Colombia case study. <i>Energy Reports</i> , <b>2022</b> , 8, 3115-3126	4.6	0
8	Effect of Pressure on Thermo-oxidation and Thermocatalytic Oxidation of n-C7 Asphaltenes. <i>Lecture Notes in Nanoscale Science and Technology</i> , <b>2021</b> , 165-200	0.3	
7	Removal of Uranium from Flowback Water of Hydraulic Fracturing Processes in Unconventional Reservoirs Using Phosphorus- and Nitrogen-Functionalized Activated Carbons. <i>Lecture Notes in Nanoscale Science and Technology</i> , <b>2021</b> , 429-444	0.3	
6	Double Purpose Drilling Fluid Based on Nanotechnology: Drilling-Induced Formation Damage Reduction and Improvement in Mud Filtrate Quality. <i>Lecture Notes in Nanoscale Science and Technology</i> , <b>2021</b> , 381-405	0.3	
5	Evaluation from Laboratory to Field Trial of Nanofluids for CaCO <sub>3</sub> Scale Inhibition in Oil Wells. <i>Lecture Notes in Nanoscale Science and Technology</i> , <b>2021</b> , 407-427	0.3	
4	Nanotechnology Applications for Viscosity Reduction of Heavy and Extra-Heavy Oils: A Review. <i>Lecture Notes in Nanoscale Science and Technology</i> , <b>2021</b> , 241-267	0.3	
3	Influence of Surfactant Adsorption on Surface-Functionalized Silica Nanoparticles for Gas Foam Stability. <i>Lecture Notes in Nanoscale Science and Technology</i> , <b>2021</b> , 339-357	0.3	
2	Development of Acid Nanocapsules with Tailored Breaking Reservoir Temperature for the Removal of Formation Damage by Fines Migration. <i>Energy &amp; Fuels</i> , <b>2022</b> , 36, 4792-4798	4.1	
1	Development of a Novel Green Bio-Nanofluid from <i>Sapindus Saponaria</i> for Enhanced Oil Recovery Processes. <i>Processes</i> , <b>2022</b> , 10, 1057	2.9	