

Feridun Esmailzadeh

List of Publications by Year in descending order

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112
papers

2,481
citations

159585

30
h-index

254184

43
g-index

114
all docs

114
docs citations

114
times ranked

2065
citing authors

#	ARTICLE	IF	CITATIONS
1	Pretreatment of wheat straw by supercritical CO ₂ and its enzymatic hydrolysis for sugar production. <i>Biosystems Engineering</i> , 2010, 107, 61-66.	4.3	109
2	Micronization of drug particles via RESS process. <i>Journal of Supercritical Fluids</i> , 2010, 52, 84-98.	3.2	101
3	Experimental study of using CuO nanoparticles as a methane hydrate promoter. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 1518-1522.	4.4	75
4	Solubility prediction of CO ₂ , CH ₄ , H ₂ , CO and N ₂ in Choline Chloride/Urea as a eutectic solvent using NRTL and COSMO-RS models. <i>Journal of Molecular Liquids</i> , 2017, 247, 70-74.	4.9	68
5	Measurement and modeling of mefenamic acid solubility in supercritical carbon dioxide. <i>Fluid Phase Equilibria</i> , 2012, 313, 140-147.	2.5	64
6	Removal of contaminants from polluted drilling mud using supercritical carbon dioxide extraction. <i>Journal of Supercritical Fluids</i> , 2014, 88, 1-7.	3.2	64
7	Pitting corrosion failure analysis of a wet gas pipeline. <i>Engineering Failure Analysis</i> , 2017, 82, 16-25.	4.0	61
8	Mathematical modelling of a hydrocyclone for the down-hole oil/water separation (DOWS). <i>Chemical Engineering Research and Design</i> , 2012, 90, 2186-2195.	5.6	55
9	Solubility of an Anthracene, Phenanthrene, and Carbazole Mixture in Supercritical Carbon Dioxide. <i>Journal of Chemical & Engineering Data</i> , 2002, 47, 333-338.	1.9	53
10	Solubility of ketoprofen in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2012, 72, 191-197.	3.2	51
11	Crystallization of micro particles of sulindac using rapid expansion of supercritical solution. <i>Journal of Crystal Growth</i> , 2010, 312, 3373-3383.	1.5	47
12	Micronization of ketoprofen by the rapid expansion of supercritical solution process. <i>Journal of Aerosol Science</i> , 2010, 41, 821-833.	3.8	46
13	The effects of RESS parameters on the diclofenac particle size. <i>Advanced Powder Technology</i> , 2011, 22, 587-595.	4.1	46
14	Experimental measurement and correlation for solubility of piroxicam (a non-steroidal) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (ant 2013, 80, 38-43.	3.2	46
15	Optimization of biodiesel production from <i>Moringa oleifera</i> seeds oil in the presence of nano-MgO using Taguchi method. <i>International Nano Letters</i> , 2019, 9, 257-263.	5.0	46
16	Solubility of sulindac in the supercritical carbon dioxide: Experimental and modeling approach. <i>Journal of Supercritical Fluids</i> , 2012, 68, 39-44.	3.2	45
17	Pretreatment of wheat straw using steam, steam/acetic acid and steam/ethanol and its enzymatic hydrolysis for sugar production. <i>Biosystems Engineering</i> , 2010, 105, 288-297.	4.3	44
18	Cultivation of microalgae in a power plant wastewater for sulfate removal and biomass production: A batch study. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 2812-2820.	6.7	44

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19	Solubility Measurement of Diclofenac Acid in the Supercritical CO ₂ . Journal of Chemical & Engineering Data, 2012, 57, 1659-1664.	1.9	43
20	Micronization of creatine monohydrate via Rapid Expansion of Supercritical Solution (RESS). Journal of Supercritical Fluids, 2010, 55, 316-324.	3.2	40
21	Effects of low-salinity water coupled with silica nanoparticles on wettability alteration of dolomite at reservoir temperature. Petroleum Science and Technology, 2016, 34, 1345-1351.	1.5	40
22	Cetirizine solubility in supercritical CO ₂ at different pressures and temperatures. Journal of Supercritical Fluids, 2011, 58, 198-203.	3.2	39
23	Investigation of the rapid expansion of supercritical solution parameters effects on size and morphology of cephalixin particles. Journal of Aerosol Science, 2010, 41, 1090-1102.	3.8	37
24	Analyzing the solubility of fluoxetine hydrochloride in supercritical carbon dioxide. Journal of Supercritical Fluids, 2013, 73, 57-62.	3.2	37
25	Prediction of CO ₂ -oil molecular diffusion using adaptive neuro-fuzzy inference system and particle swarm optimization technique. Fuel, 2016, 181, 178-187.	6.4	36
26	Representing experimental solubility of phenylephrine hydrochloride in supercritical carbon dioxide and modeling solute solubility using semi-empirical correlations. Journal of Supercritical Fluids, 2013, 75, 181-186.	3.2	35
27	Adsorption of asphaltene from crude oil by applying polythiophene coating on Fe ₃ O ₄ nanoparticles. Journal of Dispersion Science and Technology, 2018, 39, 578-588.	2.4	35
28	Identification and selection of a stable gel polymer to control or reduce water production in gas condensate fields. Journal of Natural Gas Science and Engineering, 2014, 21, 940-950.	4.4	33
29	Formation of ultrafine deferasirox particles via rapid expansion of supercritical solution (RESS) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	3.2	32
30	Density estimation of pure carbon dioxide at supercritical region and estimation solubility of solid compounds in supercritical carbon dioxide: Correlation approach based on sensitivity analysis. Fluid Phase Equilibria, 2013, 342, 31-41.	2.5	32
31	Applications of cubic equations of state for determination of the solubilities of industrial solid compounds in supercritical carbon dioxide: A comparative study. Chemical Engineering Science, 2012, 71, 283-299.	3.8	30
32	Solubility of cyproheptadine in supercritical carbon dioxide; experimental and modeling approaches. Journal of Supercritical Fluids, 2013, 84, 13-19.	3.2	29
33	Regeneration of the Midrex Reformer Catalysts Using Supercritical Carbon Dioxide. Chemical Engineering Journal, 2018, 343, 748-758.	12.7	29
34	The role of thermodynamic parameter on membrane morphology based on phase diagram. Journal of Molecular Liquids, 2016, 224, 776-785.	4.9	27
35	Experimental study of sodium chloride aqueous solution effect on the kinetic parameters of carbon dioxide hydrate formation in the presence/absence of magnetic field. Journal of Natural Gas Science and Engineering, 2018, 50, 231-239.	4.4	27
36	A modification of the alpha function ($\hat{\alpha}$), and the critical compressibility factor ($\hat{\omega}_c$) in ER (Esmaeilzadeh-Roshanfekar) equation of state. Fluid Phase Equilibria, 2008, 273, 31-37.	2.5	26

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37	Natural gas viscosity estimation through corresponding states based models. <i>Fluid Phase Equilibria</i> , 2013, 354, 80-88.	2.5	26
38	Effect of Surfactant on Stability and Size Distribution of Gas Condensate Droplets in Water. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 1461-1467.	1.9	26
39	Supercritical Extraction of Phenanthrene in the Crossover Region. <i>Journal of Chemical & Engineering Data</i> , 2005, 50, 49-51.	1.9	25
40	Fabrication of Micron Level Particles of Amoxicillin by Rapid Expansion of Supercritical Solution. <i>Journal of Dispersion Science and Technology</i> , 2012, 33, 1419-1428.	2.4	25
41	Experimental investigation and modeling of the solubility of carvedilol in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2013, 81, 42-47.	3.2	25
42	Effect of Modified Fe ₃ O ₄ Magnetic NPs on the Absorption Capacity of CO ₂ in Water, Wettability Alteration of Carbonate Rock Surface, and Water-Oil Interfacial Tension for Oilfield Applications. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 3421-3434.	3.7	25
43	The Effect of Various Nanofluids on Absorption Intensification of CO ₂ /SO ₂ in a Single-Bubble Column. <i>Processes</i> , 2019, 7, 393.	2.8	24
44	Recrystallization of Microparticles of Fenopropfen Using Rapid Expansion of Supercritical Solution. <i>Journal of Dispersion Science and Technology</i> , 2012, 33, 1106-1115.	2.4	23
45	Effect of low-salinity water on asphaltene precipitation. <i>Journal of Dispersion Science and Technology</i> , 2018, 39, 1031-1039.	2.4	23
46	Experimental and theoretical investigation of CO ₂ mass transfer enhancement of silica nanoparticles in water. <i>Petroleum Research</i> , 2018, 3, 370-380.	2.7	23
47	Precipitation of Micronized Piroxicam Particles via RESS. <i>Journal of Dispersion Science and Technology</i> , 2012, 33, 990-999.	2.4	22
48	Solubility of spironolactone in supercritical carbon dioxide: Experimental and modeling approaches. <i>Fluid Phase Equilibria</i> , 2013, 355, 130-134.	2.5	22
49	Amoxicillin Solubility and Supercritical Carbon Dioxide. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 2750-2755.	1.9	20
50	A comparative study for evaluating the performance of five coatings applied on Fe ₃ O ₄ nanoparticles for inhibition of asphaltene precipitation from crude oil. <i>Journal of Dispersion Science and Technology</i> , 2020, 41, 1616-1632.	2.4	20
51	Prediction of H ₂ S solubility in [hmim][Pf6], [hmim][Bf4] and [hmim][Tf2N] using UNIQUAC, NRTL and COSMO-RS. <i>Journal of Molecular Liquids</i> , 2016, 220, 631-634.	4.9	19
52	Estimation of the dimension of micropores and mesopores in single walled carbon nanotubes using the method Horvath-Kawazoe, Saito and Foley and BJH equations. <i>Micro and Nano Letters</i> , 2017, 12, 1-5.	1.3	19
53	Wax formation from paraffinic mixtures: A simplified thermodynamic model based on sensitivity analysis together with a new modified predictive UNIQUAC. <i>Fuel</i> , 2012, 99, 235-244.	6.4	18
54	Solubility of gabapentin in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2013, 78, 1-6.	3.2	18

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55	Fabrication of integrally skinned asymmetric membranes based on nanocomposite polyethersulfone by supercritical CO ₂ for gas separation. <i>Journal of Supercritical Fluids</i> , 2015, 97, 6-15.	3.2	18
56	Solubility of chlorpheniramine maleate in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2013, 84, 29-35.	3.2	17
57	The impacts of silica nanoparticles coupled with low-salinity water on wettability and interfacial tension: Experiments on a carbonate core. <i>Journal of Dispersion Science and Technology</i> , 2020, 41, 1159-1173.	2.4	17
58	An insight into the role of the association equations of states in gas hydrate modeling: a review. <i>Petroleum Science</i> , 2020, 17, 1432-1450.	4.9	17
59	Experimental solubility measurement of cephalexin in supercritical carbon dioxide. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2014, 20, 387-395.	0.7	16
60	Investigation of key influence parameters for synthesis of submicron carboxymethylcellulose particles via rapid expansion of supercritical CO ₂ solution by Taguchi method. <i>Journal of Supercritical Fluids</i> , 2012, 69, 34-44.	3.2	15
61	Investigation on the effect of different supercritical fluid extraction process on the activation of the R-134 catalyst. <i>Journal of Supercritical Fluids</i> , 2012, 67, 1-6.	3.2	14
62	Application of expert systems for accurate determination of dew-point pressure of gas condensate reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 18, 296-303.	4.4	14
63	An experimental investigation of polyacrylamide and sulfonated polyacrylamides based gels crosslinked with cr(III)-acetate for water shutoff in fractured oil reservoirs. <i>Journal of Dispersion Science and Technology</i> , 2018, 39, 1780-1789.	2.4	14
64	Synthesis of an efficient copolymer of acrylamide and acrylic acid and determination of its swelling behavior. <i>Journal of Petroleum Exploration and Production</i> , 2018, 8, 1331-1340.	2.4	13
65	Prediction of densities of pure ionic liquids using Esmaeilzadeh-Roshanfekr equation of state and critical properties from group contribution method. <i>Fluid Phase Equilibria</i> , 2016, 423, 101-108.	2.5	12
66	Extraction of hydrocarbons from the contaminated soil of Pazanan II production unit by supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2012, 72, 298-304.	3.2	11
67	High pressure phase equilibrium of wax: A new thermodynamic model. <i>Fuel</i> , 2014, 117, 900-909.	6.4	11
68	Environmentally friendly acetic acid/steam explosion/supercritical carbon dioxide system for the pre-treatment of wheat straw. <i>Environmental Science and Pollution Research</i> , 2021, 28, 37867-37881.	5.3	11
69	Synthesize and characterization of chitosan and silica supported on Fe ₃ O ₄ nanoparticles for the adsorption and removal of asphaltene molecules from crude oil. <i>Materials Research Express</i> , 2018, 5, 095022.	1.6	10
70	Three-dimensional and two-phase numerical simulation of fractured dry gas reservoirs. <i>Journal of Petroleum Exploration and Production</i> , 2018, 8, 1425-1441.	2.4	10
71	Investigation the Effect of TiO ₂ Nanoparticles on Proton Exchange Membrane of sPEEK Used as a Fuel Cell Electrolyte Based on Phase Diagram. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 63-72.	3.7	9
72	Oil recovery from fractured reservoirs using in situ and preformed particle gels in micromodel structures. <i>Journal of Petroleum Exploration and Production</i> , 2019, 9, 2309-2317.	2.4	9

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73	Predictive correlation between surface tension, density, and speed of sound of ionic liquids: Auerbach model revisited. <i>Journal of Molecular Liquids</i> , 2019, 274, 193-203.	4.9	9
74	A Laboratory Approach to Measure Carbonate Rocks' Adsorption Density by Surfactant and Polymer. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-7.	1.1	9
75	Destabilization and Separation of Gas Condensate from Wastewater using Different Surfactant Demulsifiers. <i>Tenside, Surfactants, Detergents</i> , 2018, 55, 153-161.	1.2	9
76	Esmailzadeh's Roshanfekar equation of state coupled with CPA model: Application in viscosity modeling. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018, 13, e2159.	1.5	8
77	Modeling of Pig Operations in Natural Gas and Liquid Pipeline. , 2006, , .		7
78	Ozonation of an effluent of oil refineries for COD and sulfide removal. <i>Desalination and Water Treatment</i> , 2015, 56, 1648-1656.	1.0	7
79	Solubility of fluvoxamine maleate in supercritical carbon dioxide. <i>Fluid Phase Equilibria</i> , 2015, 399, 98-104.	2.5	7
80	Prediction of surface tension of pure hydrocarbons using Esmailzadeh-Roshanfekar equation of state and group contribution method. <i>Fluid Phase Equilibria</i> , 2016, 427, 353-361.	2.5	7
81	Modification of PES/PU membrane by supercritical CO ₂ to enhance CO ₂ /CH ₄ selectivity: Fabrication and correlation approach using RSM. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 2503-2515.	3.5	7
82	The effect of various capping agents on V ₂ O ₅ morphology and photocatalytic degradation of dye. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10473-10490.	2.2	7
83	Regeneration of catalyst clay soils (Tonsil CO 610 G) by supercritical carbon dioxide. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 842-851.	2.7	6
84	An experimental investigation of creaming phenomenon using a novel optical method: A case study of mineral oil-in-water emulsion. <i>Journal of Dispersion Science and Technology</i> , 2018, 39, 634-643.	2.4	6
85	Effect of Brine on Asphaltene Precipitation at High Pressures in Oil Reservoirs. <i>Petroleum Chemistry</i> , 2018, 58, 1076-1084.	1.4	6
86	Demulsification by increasing the gravitational force acting upon the dispersed phase owing to the adsorption/absorption of the magnetite particles. <i>Journal of Dispersion Science and Technology</i> , 2019, 40, 1581-1590.	2.4	6
87	Determination of Swelling Behavior and Mechanical and Thermal Resistance of Acrylamide-Acrylic Acid Copolymers under High Pressures and Temperatures. <i>ACS Omega</i> , 2021, 6, 23862-23872.	3.5	6
88	Treatment of methyldiethanolamine wastewater using subcritical and supercritical water oxidation: parameters study, process optimization and degradation mechanism. <i>Environmental Science and Pollution Research</i> , 2022, 29, 57688-57702.	5.3	6
89	Manipulation of key parameters in RESS process for attapulgite particles utilizing in drilling mud and investigation on its rheological characteristics. <i>Journal of Petroleum Science and Engineering</i> , 2013, 112, 359-369.	4.2	5
90	1-D MATHEMATICAL MODELING OF HYDRATE DECOMPOSITION IN POROUS MEDIA BY DEPRESSURIZATION AND THERMAL STIMULATION. <i>Journal of Porous Media</i> , 2011, 14, 1-16.	1.9	5

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91	Optimization of Key Parameters Affecting Swelling Capacity of Poly(acrylamide-co-acrylic acid) Hydrogels in Salt Water Using Response Surface Methodology (RSM). Journal of Macromolecular Science - Physics, 0, , 1-18.	1.0	4
92	3-D SIMULATION OF ACID INJECTION INTO A CARBONATE POROUS MEDIA: NONLINEAR CHEMISTRY. Journal of Porous Media, 2013, 16, 959-966.	1.9	4
93	Absorption increment of various physical/chemical CO ₂ absorbents using CeO ₂ /SiO ₂ /TiO ₂ nanocomposite. Chemical Papers, 2022, 76, 4817-4834.	2.2	4
94	Evaluation of Activity Coefficient Models in Prediction of Wax Appearance Temperature. , 2006, , .		3
95	Predicting the Three Dimensional Distribution of Gas Pollutants for Industrial-type Geometries in the South Pars Gas Complex Using Computational Fluid Dynamics. Industrial & Engineering Chemistry Research, 2013, 52, 6559-6570.	3.7	3
96	Micronization of Iron Oxide Particles Using Gas Antisolvent Process. Journal of Dispersion Science and Technology, 2013, 34, 140-145.	2.4	3
97	Experimental investigation of inhibitors injection to control salt precipitation using wetted wall column. Journal of Petroleum Science and Engineering, 2014, 122, 667-674.	4.2	3
98	New models for the binary interaction parameters of nitrogen-alkanes mixtures based on the cubic equations of state. Chemical Engineering Communications, 2018, 205, 914-928.	2.6	3
99	Synthesis and Characterization of Nano-Sized Pt/HZSM-5 Catalyst for Application in the Xylene Isomerization Process. Catalysis Letters, 2022, 152, 139-150.	2.6	3
100	Modeling of dissolution patterns for carbonate acidizing in the porous media. AIP Conference Proceedings, 2012, , .	0.4	2
101	Kinetic Study on <i>Nannochloropsis Oculata</i> 's Lipid Extraction Using Supercritical CO ₂ and <i>n</i> -Hexane for Biodiesel Production. ACS Omega, 0, , .	3.5	2
102	Experimental investigation of supercritical methane injection in oil fields on salt deposit formation by gas anti-solvent process. Journal of Supercritical Fluids, 2014, 85, 110-115.	3.2	1
103	Comparison of SRK and CPA equations of state for phase equilibrium of binary and ternary systems containing aromatics. Fluid Phase Equilibria, 2016, 408, 38-46.	2.5	1
104	Effect of Brine on Asphaltene Precipitation at High Pressures in Oil Reservoirs. Petroleum Chemistry, 2019, 59, 57-65.	1.4	1
105	Elucidation of Si/Al ratio on physicochemical properties of HZSM-5 zeolites. Journal of Thermal Analysis and Calorimetry, 2021, 146, 581-586.	3.6	1
106	Micronization of Cetirizine Using Rapid Expansion of Supercritical Carbon Dioxide. Open Access Library Journal (oalib), 2015, 02, 1-14.	0.2	1
107	Gas Condensate Wells Simulation to Optimize Well Flow Performance Using Tubing Equations Coupled with Inflow-Performance-Relation (IPR) Curve. Open Access Library Journal (oalib), 2018, 05, 1-17.	0.2	1
108	A Simulation Approach for Screening of EOR Scenarios in Naturally Fractured Reservoirs. International Journal of Geosciences, 2018, 09, 19-43.	0.6	1

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109	Insight into the application of supercritical water oxidation for dichlorvos degradation: experimental and simulation aspects. <i>Environmental Technology (United Kingdom)</i> , 2023, 44, 4113-4122.	2.2	1
110	Liquid Density and Viscosity of Ethyl Caprate/1-Propanol Mixture at High Pressures. <i>Journal of Chemical & Engineering Data</i> , 2022, 67, 1438-1449.	1.9	1
111	PRESSURE TRANSIENT RESPONSE OF PARTIALLY FRACTURED RESERVOIRS. <i>Special Topics and Reviews in Porous Media</i> , 2013, 4, 1-11.	1.1	0
112	Optimization of parameters in using two different approaches for palladium-based spent catalysts (ethylene synthesis process) regeneration: supercritical carbon dioxide based extraction process and thermal process. <i>Separation Science and Technology</i> , 0, , 1-13.	2.5	0