

Dariush Mowla

List of Publications by Year in descending order

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109
papers

2,784
citations

147566

31
h-index

214527

47
g-index

109
all docs

109
docs citations

109
times ranked

2947
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosurfactant production under extreme environmental conditions by an efficient microbial consortium, ERCPP1-2. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 84, 292-300.	2.5	150
2	Energy optimization for liquefaction process of natural gas in peak shaving plant. <i>Energy</i> , 2010, 35, 2878-2885.	4.5	132
3	Shrinkage of carrots during drying in an inert medium fluidized bed. <i>Journal of Food Engineering</i> , 2002, 55, 247-252.	2.7	106
4	Experimental study of drag reduction by a polymeric additive in slug two-phase flow of crude oil and air in horizontal pipes. <i>Chemical Engineering Science</i> , 2006, 61, 1549-1554.	1.9	91
5	Experimental and theoretical investigation of shelled corn drying in a microwave-assisted fluidized bed dryer using Artificial Neural Network. <i>Food and Bioproducts Processing</i> , 2011, 89, 15-21.	1.8	89
6	UiO-66(Ti)-Fe ₃ O ₄ -WO ₃ photocatalyst for efficient ammonia degradation from wastewater into continuous flow-loop thin film slurry flat-plate photoreactor. <i>Journal of Hazardous Materials</i> , 2020, 393, 122360.	6.5	74
7	Fabrication of CuWO ₄ /Bi ₂ S ₃ /ZIF67 MOF: A novel double Z-scheme ternary heterostructure for boosting visible-light photodegradation of antibiotics. <i>Chemosphere</i> , 2020, 251, 126453.	4.2	72
8	Correlations for shrinkage, density and diffusivity for drying of maize and green peas in a fluidized bed with energy carrier. <i>Journal of Food Engineering</i> , 2003, 59, 221-227.	2.7	71
9	Selectivity study of H ₂ S and CO ₂ absorption from gaseous mixtures by MEA in packed beds. <i>Chemical Engineering Research and Design</i> , 2008, 86, 401-409.	2.7	65
10	Removal of contaminants from polluted drilling mud using supercritical carbon dioxide extraction. <i>Journal of Supercritical Fluids</i> , 2014, 88, 1-7.	1.6	64
11	Theoretical and experimental investigation of desalting and dehydration of crude oil by assistance of ultrasonic irradiation. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 378-385.	3.8	57
12	Mathematical modelling of a hydrocyclone for the down-hole oil-water separation (DOWS). <i>Chemical Engineering Research and Design</i> , 2012, 90, 2186-2195.	2.7	55
13	Simulation of a cross-flow continuous fluidized bed dryer for paddy rice. <i>Journal of Food Engineering</i> , 2003, 58, 325-329.	2.7	52
14	Experimental and theoretical investigation of drying behaviour of garlic in an inert medium fluidized bed assisted by microwave. <i>Journal of Food Engineering</i> , 2008, 88, 438-449.	2.7	49
15	Synthesis of CuWO ₄ /Bi ₂ S ₃ Z-scheme heterojunction with enhanced cephalexin photodegradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 394, 112463.	2.0	49
16	Investigation of microplastic removal from greywater by coagulation and dissolved air flotation. <i>Chemical Engineering Research and Design</i> , 2021, 151, 341-354.	2.7	48
17	Axial and radial moisture diffusivity in cylindrical fresh green beans in a fluidized bed dryer with energy carrier: Modeling with and without shrinkage. <i>Journal of Food Engineering</i> , 2008, 88, 9-19.	2.7	47
18	Membrane Absorption Coupling Process for CO ₂ Capture: Application of Water-Based ZnO, TiO ₂ , and Multi-Walled Carbon Nanotube Nanofluids. <i>Energy & Fuels</i> , 2019, 33, 1392-1403.	2.5	46

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19	Experimental study of forced circulation evaporator in zero discharge desalination process. <i>Desalination</i> , 2012, 285, 352-358.	4.0	44
20	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.	3.3	44
21	SO ₂ removal from simulated flue gas using various aqueous solutions: Absorption equilibria and operational data in a packed column. <i>Separation and Purification Technology</i> , 2015, 153, 162-169.	3.9	43
22	Improvement in filtration properties of water-based drilling fluid by nanocarboxymethyl cellulose/polystyrene core-shell nanocomposite. <i>Journal of Petroleum Exploration and Production</i> , 2018, 8, 445-454.	1.2	42
23	Boosted Cr(VI) clean up over magnetically recoverable NiS ₂ /Fe ₂ O ₃ /C type-II heterostructure derived from bimetal (Fe/Ni)-organic framework under visible light. <i>Journal of Cleaner Production</i> , 2021, 317, 128471.	4.6	41
24	A general model for predicting drag reduction in crude oil pipelines. <i>Journal of Petroleum Science and Engineering</i> , 2013, 111, 78-86.	2.1	39
25	Experimental study of a solar desalination pond as second stage in proposed zero discharge desalination process. <i>Solar Energy</i> , 2013, 97, 138-146.	2.9	39
26	Experimental and theoretical analysis of the UV/H ₂ O ₂ advanced oxidation processes treating aromatic hydrocarbons and MTBE from contaminated synthetic wastewaters. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1252-1260.	3.3	39
27	New insights to direct conversion of wet microalgae impregnated with ethanol to biodiesel exploiting extraction with supercritical carbon dioxide. <i>Fuel</i> , 2021, 285, 119199.	3.4	37
28	Experimental investigation of oily water treatment by membrane bioreactor. <i>Desalination</i> , 2010, 250, 598-600.	4.0	36
29	An experimental study of drag reduction by nanofluids through horizontal pipe turbulent flow of a Newtonian liquid. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 633-637.	2.9	35
30	Experimental investigation of asphaltene-augmented gel polymer performance for water shut-off and enhancing oil recovery in fractured oil reservoirs. <i>Journal of Molecular Liquids</i> , 2019, 275, 654-666.	2.3	35
31	Identification and selection of a stable gel polymer to control or reduce water production in gas condensate fields. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 21, 940-950.	2.1	33
32	Facile construction of novel Z-scheme MnWO ₄ /Bi ₂ S ₃ heterojunction with enhanced photocatalytic degradation of antibiotics. <i>Materials Science in Semiconductor Processing</i> , 2021, 127, 105723.	1.9	33
33	Estimation of viscosity of binary mixtures of ionic liquids and solvents using an artificial neural network based on the structure groups of the ionic liquid. <i>Fluid Phase Equilibria</i> , 2014, 364, 88-94.	1.4	32
34	Simulation of drying behaviour of a small spherical foodstuff in a microwave assisted fluidized bed of inert particles. <i>Food Research International</i> , 2008, 41, 255-265.	2.9	31
35	Estimation of viscosities of pure ionic liquids using an artificial neural network based on only structural characteristics. <i>Journal of Molecular Liquids</i> , 2017, 227, 309-317.	2.3	30
36	Theoretical and experimental investigation of biodegradation of hydrocarbon polluted water in a three phase fluidized-bed bioreactor with PVC biofilm support. <i>Biochemical Engineering Journal</i> , 2007, 36, 147-156.	1.8	29

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37	Experimental and Theoretical Investigation of Drying of Carrots in a Fluidized Bed with Energy Carrier. <i>Drying Technology</i> , 2003, 21, 83-101.	1.7	28
38	Zero-valent iron nanoparticles assisted purification of rhamnolipid for oil recovery improvement from oily sludge. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 917-922.	3.3	27
39	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.	1.0	26
40	An artificial neural network to calculate pure ionic liquid densities without the need for any experimental data. <i>Journal of Supercritical Fluids</i> , 2014, 95, 60-67.	1.6	26
41	Modeling of the adsorption breakthrough behaviors of oil from salty waters in a fixed bed of commercial organoclay/sand mixture. <i>Chemical Engineering Journal</i> , 2013, 218, 116-125.	6.6	25
42	Kinetics of calcium carbonate precipitation through CO ₂ absorption from flue gas into distiller waste of soda ash plant. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3480-3486.	2.9	24
43	Experimental analysis of drag reduction in the pipelines with response surface methodology. <i>Journal of Petroleum Science and Engineering</i> , 2016, 138, 104-112.	2.1	24
44	Exploitation of novel synthetic bacterial consortia for biodegradation of oily-sludge TPH of Iran gas and oil refineries. <i>Journal of Environmental Chemical Engineering</i> , 2017, 5, 2964-2975.	3.3	24
45	The Effect of Various Nanofluids on Absorption Intensification of CO ₂ /SO ₂ in a Single-Bubble Column. <i>Processes</i> , 2019, 7, 393.	1.3	24
46	Integrated CO ₂ capture, nutrients removal and biodiesel production using <i>Chlorella vulgaris</i> . <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104763.	3.3	24
47	Effect of low-salinity water on asphaltene precipitation. <i>Journal of Dispersion Science and Technology</i> , 2018, 39, 1031-1039.	1.3	23
48	Total petroleum hydrocarbon degradation in contaminated soil as affected by plants growth and biochar. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	22
49	Investigation of Solar Desalination Pond Performance Experimentally and Mathematically. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2012, 134, 041201.	1.4	20
50	Improved waste-sourced biocomposite for simultaneous removal of crude oil and heavy metals from synthetic and real oilfield-produced water. <i>Environmental Science and Pollution Research</i> , 2018, 25, 31407-31420.	2.7	20
51	Mathematical modeling of biological sulfide removal in a fed batch bioreactor. <i>Biochemical Engineering Journal</i> , 2011, 58-59, 50-56.	1.8	19
52	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.	1.6	18
53	Study of co-combustion of dried sewage sludge with coke: Thermogravimetric assessment and gaseous emissions. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102871.	3.3	18
54	Biodegradation of heavy crude oil in wastewater by an efficient strain, ERCPP1-1. <i>Desalination and Water Treatment</i> , 2011, 28, 46-54.	1.0	17

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55	Artificial intelligence approach to predict drag reduction in crude oil pipelines. Journal of Petroleum Science and Engineering, 2019, 178, 586-593.	2.1	17
56	Enhancement of sulfate removal from the power plant wastewater using cultivation of indigenous microalgae: Stage-wise operation. Journal of Environmental Chemical Engineering, 2019, 7, 102870.	3.3	17
57	Highly Selective Physical/Chemical CO ₂ Separation by Functionalized Fe ₃ O ₄ Nanoparticles in Hollow Fiber Membrane Contactors: Experimental and Modeling Approaches. Energy & Fuels, 2022, 36, 4456-4469.	2.5	17
58	The photocatalytic degradation and kinetic analysis of BTEX components in polluted wastewater by UV/H ₂ O ₂ -based advanced oxidation. Desalination and Water Treatment, 2014, 52, 3054-3062.	1.0	16
59	Comparison of the effects of poultry manure and its biochar on barley growth in petroleum-contaminated soils. International Journal of Phytoremediation, 2018, 20, 98-103.	1.7	16
60	Third Generation of Biofuels Exploiting Microalgae. Nanotechnology in the Life Sciences, 2020, , 575-588.	0.4	15
61	Prediction of Waxy Oil Rheology by a New Model. Energy & Fuels, 2010, 24, 1762-1770.	2.5	14
62	Developing a new approach for evaluating a de-oiling hydrocyclone efficiency. Desalination, 2012, 285, 131-137.	4.0	14
63	Application of expert systems for accurate determination of dew-point pressure of gas condensate reservoirs. Journal of Natural Gas Science and Engineering, 2014, 18, 296-303.	2.1	14
64	An experimental investigation of polyacrylamide and sulfonated polyacrylamides based gels crosslinked with cr(III)-acetate for water shutoff in fractured oil reservoirs. Journal of Dispersion Science and Technology, 2018, 39, 1780-1789.	1.3	14
65	Removal of Oil Spills from Salty Waters by Commercial Organoclays. Journal of Dispersion Science and Technology, 2012, 33, 1682-1687.	1.3	13
66	Synthesis of an efficient copolymer of acrylamide and acrylic acid and determination of its swelling behavior. Journal of Petroleum Exploration and Production, 2018, 8, 1331-1340.	1.2	13
67	Experimental Investigation of Drying Behavior of Carrots in a Fluidized Bed with Energy Carrier. Engineering in Life Sciences, 2003, 3, 43-49.	2.0	12
68	Numerical evaluation of turbulence models for dense to dilute gas–solid flows in vertical conveyor. Particuology, 2012, 10, 553-561.	2.0	12
69	Analysis of membrane pore-blocking models applied to the MF of real oily wastewaters treatment using mullite and mullite–alumina ceramic membranes. Desalination and Water Treatment, 2014, 52, 2481-2493.	1.0	12
70	Production performance analysis of Sarkhoon gas condensate reservoir. Journal of Petroleum Science and Engineering, 2010, 75, 44-53.	2.1	11
71	Hydrothermal synthesis of V ₂ O ₅ nanospheres as catalyst for hydrogen sulfide removal from sour water. Ceramics International, 2021, 47, 923-934.	2.3	11
72	Three-dimensional and two-phase numerical simulation of fractured dry gas reservoirs. Journal of Petroleum Exploration and Production, 2018, 8, 1425-1441.	1.2	10

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73	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.	1.2	9
74	Experimental study of chemical sand consolidation using epoxy and furan resins for oil wells: Experimental design models. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 135, 104486.	2.6	9
75	Destabilization and Separation of Gas Condensate from Wastewater using Different Surfactant Demulsifiers. <i>Tenside, Surfactants, Detergents</i> , 2018, 55, 153-161.	0.5	9
76	Review of Progress in Microalgal Biotechnology Applied to Wastewater Treatment. <i>Nanotechnology in the Life Sciences</i> , 2020, , 539-557.	0.4	8
77	Numerical Modeling of Heat Transfer for Gas-Solid Flow in Vertical Pipes. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012, 62, 659-677.	1.2	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	The effect of various capping agents on V2O5 morphology and photocatalytic degradation of dye. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10473-10490.	1.1	7
80	Biological removal of methanethiol from gas and water streams by using <i>Thiobacillus thioparus</i> : investigation of biodegradability and optimization of sulphur production. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 1729-1735.	1.2	6
81	Development of rectangular broad-crested weirs for flow characteristics and discharge measurement. <i>KSCE Journal of Civil Engineering</i> , 2015, 19, 136-141.	0.9	6
82	CFD Modeling of Algae Flash Pyrolysis in the Batch Fluidized Bed Reactor Including Heat Carrier Particles. <i>International Journal of Chemical Reactor Engineering</i> , 2016, 14, 463-480.	0.6	6
83	Effect of Brine on Asphaltene Precipitation at High Pressures in Oil Reservoirs. <i>Petroleum Chemistry</i> , 2018, 58, 1076-1084.	0.4	6
84	Examination of the impacts of salinity and culture media compositions on <i>Clostridium acetobutylicum</i> NRRL B-591 growth and acetone-butanol-ethanol biosynthesis. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102835.	3.3	6
85	Determination of Swelling Behavior and Mechanical and Thermal Resistance of Acrylamide- <i>Acrylic Acid Copolymers</i> under High Pressures and Temperatures. <i>ACS Omega</i> , 2021, 6, 23862-23872.	1.6	6
86	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.	2.7	6
87	Optimization of biological sulfide removal in a CSTR bioreactor. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 1005-1010.	1.7	5
88	Optimization of Key Parameters Affecting Swelling Capacity of Poly(acrylamide-co-acrylic acid) Hydrogels in Salt Water Using Response Surface Methodology (RSM). <i>Journal of Macromolecular Science - Physics</i> , 0, , 1-18.	0.4	4
89	Evaluating the binary Z-scheme Bi2S3/CuWO4 immobilized on FTO as a visible-light-driven photocatalyst for metronidazole degradation-response surface method. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	4
90	Mathematical Modeling of Destabilizing Gas Condensate Droplets in Water Emulsions Using the Population Balance Method. <i>Tenside, Surfactants, Detergents</i> , 2019, 56, 119-125.	0.5	4

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91	DRYING BEHAVIOR OF FRESH GREEN BEANS IN AN INERT MEDIUM FLUIDIZED BED. <i>Journal of Food Processing and Preservation</i> , 2008, 32, 697-718.	0.9	3
92	Aqueous phase adsorption of organic compounds on activated carbon in fluidized bed. <i>Desalination and Water Treatment</i> , 2011, 28, 35-41.	1.0	3
93	Predicting the Three Dimensional Distribution of Gas Pollutants for Industrial-type Geometries in the South Pars Gas Complex Using Computational Fluid Dynamics. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 6559-6570.	1.8	3
94	Micronization of Iron Oxide Particles Using Gas Antisolvent Process. <i>Journal of Dispersion Science and Technology</i> , 2013, 34, 140-145.	1.3	3
95	Comparison Between Long- and Short-Chain Organoclays for Oil Removal from Salty Waters. <i>Journal of Dispersion Science and Technology</i> , 2013, 34, 1790-1796.	1.3	3
96	Experimental investigation of inhibitors injection to control salt precipitation using wetted wall column. <i>Journal of Petroleum Science and Engineering</i> , 2014, 122, 667-674.	2.1	3
97	Optimization Conditions for Maximum Oil Bioremediation and Biopolymer Production by Pseudomonads. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2019, 43, 1439-1446.	0.7	3
98	Synthesis and Characterization of Nano-Sized Pt/HZSM-5 Catalyst for Application in the Xylene Isomerization Process. <i>Catalysis Letters</i> , 2022, 152, 139-150.	1.4	3
99	SELECTIVE CATALYTIC REDUCTION OF NITRIC OXIDE WITH AMMONIA OVER SILICA-SUPPORTED VANADIUM OXIDE CATALYST. <i>Chemical Engineering Communications</i> , 2009, 196, 1090-1101.	1.5	1
100	Experimental and Theoretical Study of MTBE Adsorption from Polluted Water on GAC and PAC in Continuous Process. <i>Journal of Dispersion Science and Technology</i> , 2013, 34, 692-700.	1.3	1
101	Experimental investigation of supercritical methane injection in oil fields on salt deposit formation by gas anti-solvent process. <i>Journal of Supercritical Fluids</i> , 2014, 85, 110-115.	1.6	1
102	Investigation of gas oil separation from wastewater using a specific natural clay as adsorbent. <i>Desalination and Water Treatment</i> , 2014, 52, 1370-1377.	1.0	1
103	Effect of Brine on Asphaltene Precipitation at High Pressures in Oil Reservoirs. <i>Petroleum Chemistry</i> , 2019, 59, 57-65.	0.4	1
104	Elucidation of Si/Al ratio on physicochemical properties of HZSM-5 zeolites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 581-586.	2.0	1
105	Experimental and theoretical investigation about the effect of nano-coating on heating load. <i>International Journal of Industrial Chemistry</i> , 2020, 11, 147-159.	3.1	1
106	Production of biosolvents and acids by salinity-adapted strain of clostridium acetobutylicum: Effects of salt and molasses concentrations. <i>Journal of the Serbian Chemical Society</i> , 2018, 83, 411-423.	0.4	1
107	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.	1.2	1
108	The analysis of salt production by a recrystallization method using the concentrated backflow effluent of the desalination units. <i>Desalination and Water Treatment</i> , 2014, 52, 5276-5283.	1.0	0

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109	Mathematical Modeling of Biological Methyl Mercaptide Removal in a Fed Batch Bioreactor. Chemical Engineering Communications, 2015, 202, 1668-1675.	1.5	0