

Ali Mohebbi

List of Publications by Year in descending order

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84
papers

2,395
citations

201674

27
h-index

223800

46
g-index

85
all docs

85
docs citations

85
times ranked

2718
citing authors

#	ARTICLE	IF	CITATIONS
1	Combination of CFD and DOE for optimization of thermosyphon heat pipe. Heat and Mass Transfer, 2022, 58, 561-574.	2.1	5
2	Non-linear boundary conditions for the convection-diffusion equation in lattice Boltzmann framework. Chemical Engineering Science, 2022, 247, 116925.	3.8	2
3	Carbon Derivatives from CO ₂ . Advances in Science, Technology and Innovation, 2022, , 285-296.	0.4	0
4	Comparison of dissolution in a calcite fracture by isothermal and non-isothermal models. Computational Geosciences, 2022, 26, 401-421.	2.4	1
5	Improvement hydrocyclone separation of biodiesel impurities prepared from waste cooking oil using CFD simulation. Separation Science and Technology, 2021, 56, 1152-1167.	2.5	12
6	Machine Learning-Based Adherence Detection of Type 2 Diabetes Patients on Once-Daily Basal Insulin Injections. Journal of Diabetes Science and Technology, 2021, 15, 98-108.	2.2	7
7	Optimal loading of omecamtiv mecarbil by chitosan: A comprehensive and comparative molecular dynamics study. Journal of Molecular Liquids, 2021, 322, 114908.	4.9	1
8	Remediation of Pollution by Oil Spills. Environmental Chemistry for A Sustainable World, 2021, , 387-499.	0.5	1
9	Combining 10 meta-heuristic algorithms, CFD, DOE, MGGP and PROMETHEE II for optimizing Stairmand cyclone separator. Powder Technology, 2021, 382, 70-84.	4.2	11
10	Biodegradation of Weathered Petroleum Hydrocarbons Using Organic Waste Amendments. Applied and Environmental Soil Science, 2021, 2021, 1-12.	1.7	9
11	MD and DFT calculations on the structural variations of amino-cyclodextrin as a pH-sensitive carrier for smart carriage and release of Doxorubicin. Journal of Molecular Structure, 2021, 1230, 129855.	3.6	6
12	The effect of radio-waves irradiation on copper-ore leaching. Hydrometallurgy, 2021, 201, 105584.	4.3	5
13	Lattice Boltzmann study of porosity-permeability variation in different regimes of non-isothermal dissolution in porous media. Journal of Petroleum Science and Engineering, 2021, 202, 108570.	4.2	7
14	Carbon-Based Materials for Desalination. Advances in Science, Technology and Innovation, 2021, , 197-212.	0.4	1
15	Polymerized Ionic Liquids as Antimicrobial Materials. Environmental and Microbial Biotechnology, 2021, , 87-126.	0.7	4
16	Experimental Investigation and Multi-Gene Genetic Programming Simulation of Portland Clinker Burnability. Chemistry and Chemical Technology, 2021, 15, 559-566.	1.1	9
17	Assessment of pH-responsive nanoparticles performance on laboratory column flotation cell applying a real ore feed. International Journal of Mining Science and Technology, 2020, 30, 197-205.	10.3	56
18	CFD simulation of an industrial hydrocyclone based on multiphase particle in cell (MPPIC) method. Separation and Purification Technology, 2019, 209, 851-862.	7.9	52

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19	The possibility of cadmium extraction to the ionic liquid 1-hexyl-3-methylimidazolium hexafluorophosphate in the presence of hydrochloric acid: a molecular dynamics study of the water-IL interface. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	1.4	3
20	Molecular dynamics insight into the behaviour of 5-nonylsalicylaldehyde and its complex with Cu(II) in different diluent/water systems. <i>Journal of Molecular Liquids</i> , 2019, 291, 111350.	4.9	0
21	A new insight into pore body filling mechanism during waterflooding in a glass micro-model. <i>Chemical Engineering Research and Design</i> , 2019, 151, 100-107.	5.6	18
22	The effect of magnetic field and operating parameters on cathodic copper winning in electrowinning process. <i>Chemical Engineering Science</i> , 2019, 199, 1-19.	3.8	12
23	Application of a clean-up procedure using a ternary liquid phase system combined with pre-concentration by microextraction in the analysis of seven pesticides from soya milk. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 4094-4104.	3.5	2
24	Visualization study of the effects of oil type and model geometry on oil recovery under ultrasonic irradiation in a glass micro-model. <i>Fuel</i> , 2019, 239, 709-716.	6.4	19
25	Numerical Simulation of the Impact of Natural Fracture on Fluid Composition Variation Through a Porous Medium. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	2.3	5
26	Combination of Modified QuEChERS Extraction Method and Dispersive Liquid-Liquid Microextraction as an Efficient Sample Preparation Approach for Extraction and Preconcentration of Pesticides from Fruit and Vegetable Samples. <i>Food Analytical Methods</i> , 2019, 12, 534-543.	2.6	36
27	Combination of a modified quick, easy, cheap, efficient, rugged, and safe extraction method with a deep eutectic solvent based microwave-assisted dispersive liquid-liquid microextraction: Application in extraction and preconcentration of multiclass pesticide residues in tomato samples. <i>Journal of Separation Science</i> , 2019, 42, 1273-1280.	2.5	67
28	Headspace mode of liquid phase microextraction: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 110, 8-14.	11.4	70
29	Experimental investigation on the effect of ultrasonic waves on reducing asphaltene deposition and improving oil recovery under temperature control. <i>Ultrasonics Sonochemistry</i> , 2018, 45, 204-212.	8.2	35
30	CFD simulation of the preheater cyclone of a cement plant and the optimization of its performance using a combination of the design of experiment and multi-gene genetic programming. <i>Powder Technology</i> , 2018, 327, 430-441.	4.2	27
31	Development of Salt-Induced Homogenous Liquid-Liquid Microextraction Based on iso-Propanol/Sodium Sulfate System for Extraction of Some Pesticides in Fruit Juices. <i>Food Analytical Methods</i> , 2018, 11, 2497-2507.	2.6	47
32	The microwave irradiation effect on copper leaching from sulfide/oxide ores. <i>Materials and Manufacturing Processes</i> , 2018, 33, 1-6.	4.7	27
33	Development of salt and pH-induced solidified floating organic droplets homogeneous liquid-liquid microextraction for extraction of ten pyrethroid insecticides in fresh fruits and fruit juices followed by gas chromatography-mass spectrometry. <i>Talanta</i> , 2018, 176, 565-572.	5.5	59
34	Development of magnetic dispersive solid phase extraction using toner powder as an efficient and economic sorbent in combination with dispersive liquid-liquid microextraction for extraction of some widely used pesticides in fruit juices. <i>Journal of Chromatography A</i> , 2018, 1532, 10-19.	3.7	53
35	Understanding the structural, dynamic and thermodynamic properties of 5-Nonylsalicylaldehyde: Molecular dynamics and experimental studies. <i>Journal of Molecular Liquids</i> , 2018, 271, 290-300.	4.9	10
36	Combination of dispersive solid phase extraction and deep eutectic solvent-based air-assisted liquid-liquid microextraction followed by gas chromatography-mass spectrometry as an efficient analytical method for the quantification of some tricyclic antidepressant drugs in biological fluids. <i>Journal of Chromatography A</i> , 2018, 1571, 84-93.	3.7	72

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37	Simultaneous derivatization and air-assisted liquid-liquid microextraction based on solidification of lighter than water deep eutectic solvent followed by gas chromatography-mass spectrometry: An efficient and rapid method for trace analysis of aromatic amines in aqueous samples. <i>Analytica Chimica Acta</i> , 2018, 1032, 48-55.	5.4	70
38	Determination of tricyclic antidepressants in human urine samples by the three-step sample pretreatment followed by HPLC-UV analysis: an efficient analytical method for further pharmacokinetic and forensic studies. <i>EXCLI Journal</i> , 2018, 17, 952-963.	0.7	27
39	Lattice Boltzmann Simulation of Natural Convection in a Fractured Petroleum Reservoir Domain: Single-Phase and Multi-Phases Investigations. <i>Open Petroleum Engineering Journal</i> , 2018, 11, 48-66.	0.6	0
40	Experimental and Numerical Study of the Onset of Transient Natural Convection in a Fractured Porous Medium. <i>Transport in Porous Media</i> , 2017, 116, 923-939.	2.6	3
41	Prediction of Pressure Drop in Venturi Scrubbers by Multi-Gene Genetic Programming and Adaptive Neuro-Fuzzy Inference System. <i>Chemical Product and Process Modeling</i> , 2017, 12, .	0.9	1
42	Atomistic insights into the thermodynamics, structure, and dynamics of ionic liquid 1-hexyl-3-methylimidazolium hexafluorophosphate via molecular dynamics study. <i>Journal of Molecular Liquids</i> , 2017, 246, 39-47.	4.9	14
43	Removal of iron ions from industrial copper raffinate and electrowinning electrolyte solutions by chemical precipitation and ion exchange. <i>Minerals Engineering</i> , 2017, 113, 23-35.	4.3	56
44	Prediction of critical temperature, critical pressure and acentric factor of some ionic liquids using Patel-Teja equation of state based on genetic algorithm. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 2686-2702.	2.7	22
45	Computational Fluid Dynamics Simulation of Two-dimensional Natural Convection in a Fractured Porous Medium. <i>Heat Transfer Engineering</i> , 2017, 38, 1606-1615.	1.9	3
46	A deep learning approach to adherence detection for type 2 diabetics. , 2017, 2017, 2896-2899.		36
47	Development of a simple and efficient pretreatment technique named pH-dependent continuous homogenous liquid-liquid extraction. <i>Analytical Methods</i> , 2016, 8, 5676-5683.	2.7	20
48	Development of continuous dispersive liquid-liquid microextraction performed in home-made device for extraction and preconcentration of aryloxyphenoxy-propionate herbicides from aqueous samples followed by gas chromatography-flame ionization detection. <i>Analytica Chimica Acta</i> , 2016, 920, 1-9.	5.4	43
49	Using surface modified clay nanoparticles to improve rheological behavior of Hydrolyzed Polyacrylamid (HPAM) solution for enhanced oil recovery with polymer flooding. <i>Journal of Molecular Liquids</i> , 2016, 222, 1148-1156.	4.9	99
50	Dew point pressure model for gas condensate reservoirs based on multi-gene genetic programming approach. <i>Applied Soft Computing Journal</i> , 2016, 47, 168-178.	7.2	17
51	Simultaneous absorption of carbon dioxide (CO ₂) and hydrogen sulfide (H ₂ S) from CO ₂ -H ₂ S-CH ₄ gas mixture using amine-based nanofluids in a wetted wall column. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 28, 410-417.	4.4	72
52	Impact of natural convection and diffusion on variation of oil composition through a fractured model. <i>Scientia Iranica</i> , 2016, 23, 2811-2819.	0.4	2
53	CFD simulation of an industrial copper electrowinning cell. <i>Hydrometallurgy</i> , 2015, 153, 88-97.	4.3	9
54	Design and simulation of high pressure cyclones for a gas city gate station using semi-empirical models, genetic algorithm and computational fluid dynamics. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 313-329.	4.4	18

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55	Permeability Estimation in Petroleum Reservoir by Meta-heuristics: An Overview. , 2015, , 269-285.		3
56	Upgrading of Ilmenite Using KOH Sub-molten Salt Process Assisted by Mechanical Activation. Materials and Manufacturing Processes, 2014, 29, 1284-1288.	4.7	7
57	Wellhead Choke Performance in Oil Well Pipeline Systems Based on Genetic Programming. Journal of Pipeline Systems Engineering and Practice, 2014, 5, .	1.6	16
58	A combined CFD modeling with population balance equation to predict pressure drop in venturi scrubbers. Research on Chemical Intermediates, 2014, 40, 1021-1042.	2.7	9
59	Permeability estimation in heterogeneous oil reservoirs by multi-gene genetic programming algorithm. Journal of Petroleum Science and Engineering, 2014, 123, 201-206.	4.2	48
60	Optimization of the reflux ratio of benzene-toluene stage distillation columns by the Cuckoo algorithm. Petroleum Science, 2014, 11, 446-453.	4.9	2
61	Investigation of nanoparticle aggregation effect on thermal properties of nanofluid by a combined equilibrium and non-equilibrium molecular dynamics simulation. Journal of Molecular Liquids, 2014, 197, 14-22.	4.9	51
62	The impact of silica nanoparticles on the performance of polymer solution in presence of salts in polymer flooding for heavy oil recovery. Fuel, 2014, 123, 123-132.	6.4	190
63	Estimation of the compressive strength of 28-day-old concrete by use of an adaptive cuckooâ€“fuzzy logic model. Research on Chemical Intermediates, 2013, 39, 4001-4009.	2.7	4
64	Application of artificial neural networks for formulation and modeling of dye adsorption onto multiwalled carbon nanotubes. Research on Chemical Intermediates, 2013, 39, 3595-3609.	2.7	14
65	Evaluation of the corrosion inhibition effect of micro/nanocapsulated polymeric coatings: a comparative study by use of EIS and Tafel experiments and the area under the Bode plot. Research on Chemical Intermediates, 2013, 39, 2049-2062.	2.7	27
66	A comparison study of using optimization algorithms and artificial neural networks for predicting permeability. Journal of Petroleum Science and Engineering, 2013, 112, 17-23.	4.2	31
67	Optimization of smart self-healing coatings based on micro/nanocapsules in heavy metals emission inhibition. Progress in Organic Coatings, 2013, 76, 1006-1015.	3.9	35
68	CFD modeling of the electrolyte flow in the copper electrorefining cell of Sarcheshmeh copper complex. Hydrometallurgy, 2013, 139, 54-63.	4.3	17
69	Prediction of specific heat and thermal conductivity of nanofluids by a combined equilibrium and non-equilibrium molecular dynamics simulation. Journal of Molecular Liquids, 2012, 175, 51-58.	4.9	77
70	A case study on suspended particles in a natural gas urban transmission and distribution network. Fuel Processing Technology, 2012, 93, 65-72.	7.2	14
71	Permeability prediction based on reservoir zonation by a hybrid neural genetic algorithm in one of the Iranian heterogeneous oil reservoirs. Journal of Petroleum Science and Engineering, 2011, 78, 497-504.	4.2	27
72	Pore-Scale Monitoring of Wettability Alteration by Silica Nanoparticles During Polymer Flooding to Heavy Oil in a Five-Spot Glass Micromodel. Transport in Porous Media, 2011, 87, 653-664.	2.6	124

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73	Mercury(II) removal from aqueous solutions by adsorption on multi-walled carbon nanotubes. Korean Journal of Chemical Engineering, 2011, 28, 1029-1034.	2.7	66
74	Experimental study of filtration system performance of natural gas in urban transmission and distribution network: A case study on the city of Kerman, Iran. Fuel, 2011, 90, 1166-1171.	6.4	16
75	CFD simulation and optimization of the settler of an industrial copper solvent extraction plant: A case study. Hydrometallurgy, 2011, 106, 148-158.	4.3	15
76	CFD modeling of the launder of settler of an industrial copper solvent extraction plant: A case study on Sarcheshmeh copper complex, Iran. International Journal of Mineral Processing, 2011, 98, 55-65.	2.6	9
77	A CFD study of the effect of cyclone size on its performance parameters. Journal of Hazardous Materials, 2010, 182, 835-841.	12.4	142
78	SIMULATION OF SO ₂ ABSORPTION IN A VENTURI SCRUBBER. Chemical Engineering Communications, 2010, 197, 934-952.	2.6	8
79	Study of kinetic and fixed bed operation of removal of sulfate anions from an industrial wastewater by an anion exchange resin. Journal of Hazardous Materials, 2009, 166, 961-966.	12.4	77
80	Design of artificial neural networks using a genetic algorithm to predict collection efficiency in venturi scrubbers. Journal of Hazardous Materials, 2008, 157, 122-129.	12.4	25
81	A neural network for predicting saturated liquid density using genetic algorithm for pure and mixed refrigerants. International Journal of Refrigeration, 2008, 31, 1317-1327.	3.4	54
82	ESTIMATION OF PARTICLE CONCENTRATION EMITTED FROM THE STACKS OF KERMEN CEMENT PLANT USING ARTIFICIAL NEURAL NETWORKS. Chemical Engineering Communications, 2008, 195, 821-833.	2.6	5
83	Numerical Modeling of Particulate Matter Dispersion from Kerman Cement Plant, Iran. Environmental Monitoring and Assessment, 2007, 130, 73-82.	2.7	6
84	Artificial Neural Networks Approach for Estimating Filtration Properties of Drilling Fluids. Journal of the Japan Petroleum Institute, 2006, 49, 65-70.	0.6	11