

Ali Mohebbi

List of Publications by Year in descending order

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97
papers

2,449
citations

218592

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223716

46
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100
all docs

100
docs citations

100
times ranked

2678
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.	1.2	5
2	Non-linear boundary conditions for the convection-diffusion equation in lattice Boltzmann framework. Chemical Engineering Science, 2022, 247, 116925.	1.9	2
3	Comparison of dissolution in a calcite fracture by isothermal and non-isothermal models. Computational Geosciences, 2022, 26, 401-421.	1.2	1
4	Lattice Boltzmann study of dissolution in porous media: Comparison of VOP with VOF-curved boundary coupling. Journal of Petroleum Science and Engineering, 2022, 216, 110754.	2.1	5
5	Improvement hydrocyclone separation of biodiesel impurities prepared from waste cooking oil using CFD simulation. Separation Science and Technology, 2021, 56, 1152-1167.	1.3	12
6	Optimal loading of omecamtiv mecarbil by chitosan: A comprehensive and comparative molecular dynamics study. Journal of Molecular Liquids, 2021, 322, 114908.	2.3	1
7	Membrane Reactors for Green Synthesis. Advances in Science, Technology and Innovation, 2021, , 139-161.	0.2	1
8	Remediation of Pollution by Oil Spills. Environmental Chemistry for A Sustainable World, 2021, , 387-499.	0.3	1
9	Combining 10 meta-heuristic algorithms, CFD, DOE, MGGP and PROMETHEE II for optimizing Stairmand cyclone separator. Powder Technology, 2021, 382, 70-84.	2.1	11
10	Biodegradation of Weathered Petroleum Hydrocarbons Using Organic Waste Amendments. Applied and Environmental Soil Science, 2021, 2021, 1-12.	0.8	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.	1.8	6
12	The effect of radio-waves irradiation on copper-ore leaching. Hydrometallurgy, 2021, 201, 105584.	1.8	5
13	Modeling and optimization of radish root extract drying as peroxidase source using spouted bed dryer. Scientific Reports, 2021, 11, 14362.	1.6	3
14	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.	2.1	7
15	Carbon-Based Materials for Desalination. Advances in Science, Technology and Innovation, 2021, , 197-212.	0.2	1
16	Polymerized Ionic Liquids as Antimicrobial Materials. Environmental and Microbial Biotechnology, 2021, , 87-126.	0.4	4
17	Experimental Investigation and Multi-Gene Genetic Programming Simulation of Portland Clinker Burnability. Chemistry and Chemical Technology, 2021, 15, 559-566.	0.2	9
18	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.	4.6	56

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19	CFD simulation of an industrial hydrocyclone based on multiphase particle in cell (MPPIC) method. Separation and Purification Technology, 2019, 209, 851-862.	3.9	52
20	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. Theoretical Chemistry Accounts, 2019, 138, 1.	0.5	3
21	Molecular dynamics insight into the behaviour of 5-nonylsalicylaldehyde and its complex with Cu(II) in different diluent/water systems. Journal of Molecular Liquids, 2019, 291, 111350.	2.3	0
22	A new insight into pore body filling mechanism during waterflooding in a glass micro-model. Chemical Engineering Research and Design, 2019, 151, 100-107.	2.7	18
23	The effect of magnetic field and operating parameters on cathodic copper winning in electrowinning process. Chemical Engineering Science, 2019, 199, 1-19.	1.9	12
24	Investigation of the Capability of Carbon Nanotube Membranes in Separating the Heavy Metal Ions from Aqueous Solutions by Molecular Dynamics Simulation. Journal of Engineering Thermophysics, 2019, 28, 123-137.	0.6	7
25	Ion Exchange Resin Technology in Recovery of Precious and Noble Metals. , 2019, , 193-258.		6
26	Visualization study of the effects of oil type and model geometry on oil recovery under ultrasonic irradiation in a glass micro-model. Fuel, 2019, 239, 709-716.	3.4	19
27	Numerical Simulation of the Impact of Natural Fracture on Fluid Composition Variation Through a Porous Medium. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	1.4	5
28	Experimental investigation on the effect of ultrasonic waves on reducing asphaltene deposition and improving oil recovery under temperature control. Ultrasonics Sonochemistry, 2018, 45, 204-212.	3.8	35
29	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. Powder Technology, 2018, 327, 430-441.	2.1	27
30	The microwave irradiation effect on copper leaching from sulfide/oxide ores. Materials and Manufacturing Processes, 2018, 33, 1-6.	2.7	27
31	Sol-gel derived flexible silica aerogel as selective adsorbent for water decontamination from crude oil. Marine Pollution Bulletin, 2018, 129, 438-447.	2.3	57
32	Understanding the structural, dynamic and thermodynamic properties of 5-Nonylsalicylaldehyde: Molecular dynamics and experimental studies. Journal of Molecular Liquids, 2018, 271, 290-300.	2.3	10
33	Experimental and Numerical Study of the Onset of Transient Natural Convection in a Fractured Porous Medium. Transport in Porous Media, 2017, 116, 923-939.	1.2	3
34	Prediction of Pressure Drop in Venturi Scrubbers by Multi-Gene Genetic Programming and Adaptive Neuro-Fuzzy Inference System. Chemical Product and Process Modeling, 2017, 12, .	0.5	1
35	Atomistic insights into the thermodynamics, structure, and dynamics of ionic liquid 1-hexyl-3-methylimidazolium hexafluorophosphate via molecular dynamics study. Journal of Molecular Liquids, 2017, 246, 39-47.	2.3	14
36	Removal of iron ions from industrial copper raffinate and electrowinning electrolyte solutions by chemical precipitation and ion exchange. Minerals Engineering, 2017, 113, 23-35.	1.8	56

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37	Prediction of critical temperature, critical pressure and acentric factor of some ionic liquids using Patel-Teja equation of state based on genetic algorithm. Korean Journal of Chemical Engineering, 2017, 34, 2686-2702.	1.2	22
38	Computational Fluid Dynamics Simulation of Two-dimensional Natural Convection in a Fractured Porous Medium. Heat Transfer Engineering, 2017, 38, 1606-1615.	1.2	3
39	CFD simulation of melting process of phase change materials (PCMs) in a spherical capsule. International Journal of Refrigeration, 2017, 73, 209-218.	1.8	93
40	Using surface modified clay nanoparticles to improve rheological behavior of Hydrolized Polyacrylamid (HPAM) solution for enhanced oil recovery with polymer flooding. Journal of Molecular Liquids, 2016, 222, 1148-1156.	2.3	99
41	Prediction of thermal conductivity and viscosity of nanofluids by molecular dynamics simulation. Journal of Engineering Thermophysics, 2016, 25, 389-400.	0.6	28
42	Dew point pressure model for gas condensate reservoirs based on multi-gene genetic programming approach. Applied Soft Computing Journal, 2016, 47, 168-178.	4.1	17
43	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. Journal of Natural Gas Science and Engineering, 2016, 28, 410-417.	2.1	72
44	Impact of natural convection and diffusion on variation of oil composition through a fractured model. Scientia Iranica, 2016, 23, 2811-2819.	0.3	2
45	CFD simulation of an industrial copper electrowinning cell. Hydrometallurgy, 2015, 153, 88-97.	1.8	9
46	Design and simulation of high pressure cyclones for a gas city gate station using semi-empirical models, genetic algorithm and computational fluid dynamics. Journal of Natural Gas Science and Engineering, 2015, 26, 313-329.	2.1	18
47	Permeability Estimation in Petroleum Reservoir by Meta-heuristics: An Overview. , 2015, , 269-285.		3
48	Upgrading of Ilmenite Using KOH Sub-molten Salt Process Assisted by Mechanical Activation. Materials and Manufacturing Processes, 2014, 29, 1284-1288.	2.7	7
49	Developing a Formula Based on a Hybrid Neural Genetic Algorithm for the Prediction of Minimum Miscibility Pressure. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2014, 36, 679-688.	1.2	2
50	Wellhead Choke Performance in Oil Well Pipeline Systems Based on Genetic Programming. Journal of Pipeline Systems Engineering and Practice, 2014, 5, .	0.9	16
51	A combined CFD modeling with population balance equation to predict pressure drop in venturi scrubbers. Research on Chemical Intermediates, 2014, 40, 1021-1042.	1.3	9
52	Permeability estimation in heterogeneous oil reservoirs by multi-gene genetic programming algorithm. Journal of Petroleum Science and Engineering, 2014, 123, 201-206.	2.1	48
53	Prediction of Oil Recovery Factor in CO ₂ Injection Process. Petroleum Science and Technology, 2014, 32, 2093-2101.	0.7	11
54	Optimization of the reflux ratio of benzene-toluene stage distillation columns by the Cuckoo algorithm. Petroleum Science, 2014, 11, 446-453.	2.4	2

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55	Investigation of nanoparticle aggregation effect on thermal properties of nanofluid by a combined equilibrium and non-equilibrium molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2014, 197, 14-22.	2.3	51
56	The impact of silica nanoparticles on the performance of polymer solution in presence of salts in polymer flooding for heavy oil recovery. <i>Fuel</i> , 2014, 123, 123-132.	3.4	190
57	Estimation of the compressive strength of 28-day-old concrete by use of an adaptive cuckooâ€fuzzy logic model. <i>Research on Chemical Intermediates</i> , 2013, 39, 4001-4009.	1.3	4
58	Application of artificial neural networks for formulation and modeling of dye adsorption onto multiwalled carbon nanotubes. <i>Research on Chemical Intermediates</i> , 2013, 39, 3595-3609.	1.3	14
59	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. <i>Research on Chemical Intermediates</i> , 2013, 39, 2049-2062.	1.3	27
60	An Experimental Investigation of Silica Nanoparticles Effect on the Rheological Behavior of Polyacrylamide Solution to Enhance Heavy Oil Recovery. <i>Petroleum Science and Technology</i> , 2013, 31, 500-508.	0.7	89
61	A comparison study of using optimization algorithms and artificial neural networks for predicting permeability. <i>Journal of Petroleum Science and Engineering</i> , 2013, 112, 17-23.	2.1	31
62	Artificial neural network (ANN) approach for modeling and formulation of phenol adsorption onto activated carbon. <i>Journal of Engineering Thermophysics</i> , 2013, 22, 322-336.	0.6	23
63	Optimization of smart self-healing coatings based on micro/nanocapsules in heavy metals emission inhibition. <i>Progress in Organic Coatings</i> , 2013, 76, 1006-1015.	1.9	35
64	CFD modeling of the electrolyte flow in the copper electrorefining cell of Sarcheshmeh copper complex. <i>Hydrometallurgy</i> , 2013, 139, 54-63.	1.8	17
65	Experimental study on convective heat transfer of TiO ₂ nanofluids. <i>Heat and Mass Transfer</i> , 2013, 49, 1159-1165.	1.2	27
66	On the Control of Glass Micro-model Characteristics Developed by Laser Technology. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2013, 35, 193-201.	1.2	41
67	A Dew Point Pressure Model for Gas Condensate Reservoirs Based on an Artificial Neural Network. <i>Petroleum Science and Technology</i> , 2013, 31, 1228-1237.	0.7	8
68	A new correlation based on artificial neural networks for predicting the natural gas compressibility factor. <i>Journal of Engineering Thermophysics</i> , 2012, 21, 248-258.	0.6	7
69	The Prediction of Permeability From Well Logging Data Based on Reservoir Zoning, Using Artificial Neural Networks in One of an Iranian Heterogeneous Oil Reservoir. <i>Petroleum Science and Technology</i> , 2012, 30, 1998-2007.	0.7	21
70	Neural Fuzzy System Development for the Prediction of Permeability From Wireline Data Based on Fuzzy Clustering. <i>Petroleum Science and Technology</i> , 2012, 30, 2036-2045.	0.7	20
71	Prediction of specific heat and thermal conductivity of nanofluids by a combined equilibrium and non-equilibrium molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2012, 175, 51-58.	2.3	77
72	Introducing a new formula based on an artificial neural network for prediction of droplet size in venturi scrubbers. <i>Brazilian Journal of Chemical Engineering</i> , 2012, 29, 549-558.	0.7	6

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73	A case study on suspended particles in a natural gas urban transmission and distribution network. Fuel Processing Technology, 2012, 93, 65-72.	3.7	14
74	Prediction of Thermal Conductivity and Convective Heat Transfer Coefficient of Nanofluids by Local Composition Theory. Journal of Heat Transfer, 2011, 133, .	1.2	8
75	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.	2.1	27
76	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.	1.2	124
77	Mercury(II) removal from aqueous solutions by adsorption on multi-walled carbon nanotubes. Korean Journal of Chemical Engineering, 2011, 28, 1029-1034.	1.2	66
78	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.	3.4	16
79	CFD simulation and optimization of the settler of an industrial copper solvent extraction plant: A case study. Hydrometallurgy, 2011, 106, 148-158.	1.8	15
80	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
81	Correlation of Shear Viscosity of Nanofluids Using the Local Composition Theory. Chinese Journal of Chemical Engineering, 2010, 18, 102-107.	1.7	15
82	A CFD study of the effect of cyclone size on its performance parameters. Journal of Hazardous Materials, 2010, 182, 835-841.	6.5	142
83	SIMULATION OF SO ₂ ABSORPTION IN A VENTURI SCRUBBER. Chemical Engineering Communications, 2010, 197, 934-952.	1.5	8
84	Estimation of pressure drop in venturi scrubbers based on annular two-phase flow model, artificial neural networks and genetic algorithm. Chemical Engineering Journal, 2009, 150, 131-138.	6.6	25
85	A laboratory study of hot WAG injection into fractured and conventional sand packs. Petroleum Science, 2009, 6, 400-404.	2.4	4
86	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.	6.5	77
87	Design of artificial neural networks using a genetic algorithm to predict collection efficiency in venturi scrubbers. Journal of Hazardous Materials, 2008, 157, 122-129.	6.5	25
88	A neural network for predicting saturated liquid density using genetic algorithm for pure and mixed refrigerants. International Journal of Refrigeration, 2008, 31, 1317-1327.	1.8	54
89	ESTIMATION OF PARTICLE CONCENTRATION EMITTED FROM THE STACKS OF KERMAN CEMENT PLANT USING ARTIFICIAL NEURAL NETWORKS. Chemical Engineering Communications, 2008, 195, 821-833.	1.5	5
90	Predicting pressure drop in venturi scrubbers with artificial neural networks. Journal of Hazardous Materials, 2007, 143, 144-149.	6.5	23

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91	Numerical Modeling of Particulate Matter Dispersion from Kerman Cement Plant, Iran. Environmental Monitoring and Assessment, 2007, 130, 73-82.	1.3	6
92	Artificial Neural Networks Approach for Estimating Filtration Properties of Drilling Fluids. Journal of the Japan Petroleum Institute, 2006, 49, 65-70.	0.4	11
93	Measuring and modeling particulate dispersion: A case study of Kerman Cement Plant. Journal of Hazardous Materials, 2006, 136, 468-474.	6.5	28
94	Estimating the initial pressure, permeability and skin factor of oil reservoirs using artificial neural networks. Journal of Petroleum Science and Engineering, 2006, 50, 11-20.	2.1	60
95	Simulation of an orifice scrubber performance based on Eulerian/Lagrangian method. Journal of Hazardous Materials, 2003, 100, 13-25.	6.5	34
96	Prediction of Pressure Drop in an Orifice Scrubber Based on a Lagrangian Approach. Journal of the Air and Waste Management Association, 2002, 52, 308-312.	0.9	6
97	Numerical analysis of steady and transient magnetohydrodynamic flows around a cylinder. International Journal of Modern Physics C, 0, , .	0.8	0