# Ali Mohebbi

## List of Publications by Year
in descending order

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|---|---|---|---|
| 97 papers | 2,449 citations | 218592<br>26 h-index | 223716<br>46 g-index |
| 100 all docs | 100 docs citations | 100 times ranked | 2678 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | 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. | 3.4 | 190 |
| 2 | A CFD study of the effect of cyclone size on its performance parameters. Journal of Hazardous Materials, 2010, 182, 835-841. | 6.5 | 142 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | An Experimental Investigation of Silica Nanoparticles Effect on the Rheological Behavior of Polyacrylamide Solution to Enhance Heavy Oil Recovery. Petroleum Science and Technology, 2013, 31, 500-508. | 0.7 | 89 |
| 7 | 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 |
| 8 | 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. | 2.3 | 77 |
| 9 | Simultaneous absorption of carbon dioxide ($CO_2$) and hydrogen sulfide ($H_2S$) from $CO_2$–$H_2S$–$CH_4$ 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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. | 2.3 | 51 |
| 18 | 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 |

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|---|---------|----|-----------|
| 19 | On the Control of Glass Micro-model Characteristics Developed by Laser Technology. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2013, 35, 193-201. | 1.2 | 41 |
| 20 | Optimization of smart self-healing coatings based on micro/nanocapsules in heavy metals emission inhibition. Progress in Organic Coatings, 2013, 76, 1006-1015. | 1.9 | 35 |
| 21 | 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 |
| 22 | Simulation of an orifice scrubber performance based on Eulerian/Lagrangian method. Journal of Hazardous Materials, 2003, 100, 13-25. | 6.5 | 34 |
| 23 | A comparison study of using optimization algorithms and artificial neural networks for predicting permeability. Journal of Petroleum Science and Engineering, 2013, 112, 17-23. | 2.1 | 31 |
| 24 | Measuring and modeling particulate dispersion: A case study of Kerman Cement Plant. Journal of Hazardous Materials, 2006, 136, 468-474. | 6.5 | 28 |
| 25 | Prediction of thermal conductivity and viscosity of nanofluids by molecular dynamics simulation. Journal of Engineering Thermophysics, 2016, 25, 389-400. | 0.6 | 28 |
| 26 | 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 |
| 27 | 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. | 1.3 | 27 |
| 28 | Experimental study on convective heat transfer of TiO2 nanofluids. Heat and Mass Transfer, 2013, 49, 1159-1165. | 1.2 | 27 |
| 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 | 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 |
| 32 | 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 |
| 33 | Predicting pressure drop in venturi scrubbers with artificial neural networks. Journal of Hazardous Materials, 2007, 143, 144-149. | 6.5 | 23 |
| 34 | Artificial neural network (ANN) approach for modeling and formulation of phenol adsorption onto activated carbon. Journal of Engineering Thermophysics, 2013, 22, 322-336. | 0.6 | 23 |
| 35 | 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 |
| 36 | The Prediction of Permeability From Well Logging Data Based on Reservoir Zoning, Using Artificial Neural Networks in One of an Iranian Heterogeneous Oil Reservoir. Petroleum Science and Technology, 2012, 30, 1998-2007. | 0.7 | 21 |

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|---|---------|-----|-----------|
| 37 | Neural Fuzzy System Development for the Prediction of Permeability From Wireline Data Based on Fuzzy Clustering. Petroleum Science and Technology, 2012, 30, 2036-2045. | 0.7 | 20 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | CFD modeling of the electrolyte flow in the copper electrorefining cell of Sarcheshmeh copper complex. Hydrometallurgy, 2013, 139, 54-63. | 1.8 | 17 |
| 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 | 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 |
| 44 | Wellhead Choke Performance in Oil Well Pipeline Systems Based on Genetic Programming. Journal of Pipeline Systems Engineering and Practice, 2014, 5, . | 0.9 | 16 |
| 45 | Correlation of Shear Viscosity of Nanofluids Using the Local Composition Theory. Chinese Journal of Chemical Engineering, 2010, 18, 102-107. | 1.7 | 15 |
| 46 | 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 |
| 47 | 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 |
| 48 | Application of artificial neural networks for formulation and modeling of dye adsorption onto multiwalled carbon nanotubes. Research on Chemical Intermediates, 2013, 39, 3595-3609. | 1.3 | 14 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | Artificial Neural Networks Approach for Estimating Filtration Properties of Drilling Fluids. Journal of the Japan Petroleum Institute, 2006, 49, 65-70. | 0.4 | 11 |
| 53 | Prediction of Oil Recovery Factor in $CO_2$ Injection Process. Petroleum Science and Technology, 2014, 32, 2093-2101. | 0.7 | 11 |
| 54 | 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 |

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|---|---------|-----|-----------|
| 55 | Understanding the structural, dynamic and thermodynamic properties of 5-Nonylsalicylaldoxime: Molecular dynamics and experimental studies. Journal of Molecular Liquids, 2018, 271, 290-300. | 2.3 | 10 |
| 56 | 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 |
| 57 | 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 |
| 58 | CFD simulation of an industrial copper electrowinning cell. Hydrometallurgy, 2015, 153, 88-97. | 1.8 | 9 |
| 59 | Biodegradation of Weathered Petroleum Hydrocarbons Using Organic Waste Amendments. Applied and Environmental Soil Science, 2021, 2021, 1-12. | 0.8 | 9 |
| 60 | Experimental Investigation and Multi-Gene Genetic Programming Simulation of Portland Clinker Burnability. Chemistry and Chemical Technology, 2021, 15, 559-566. | 0.2 | 9 |
| 61 | SIMULATION OF $SO_2$ ABSORPTION IN A VENTURI SCRUBBER. Chemical Engineering Communications, 2010, 197, 934-952. | 1.5 | 8 |
| 62 | Prediction of Thermal Conductivity and Convective Heat Transfer Coefficient of Nanofluids by Local Composition Theory. Journal of Heat Transfer, 2011, 133, . | 1.2 | 8 |
| 63 | A Dew Point Pressure Model for Gas Condensate Reservoirs Based on an Artificial Neural Network. Petroleum Science and Technology, 2013, 31, 1228-1237. | 0.7 | 8 |
| 64 | A new correlation based on artificial neural networks for predicting the natural gas compressibility factor. Journal of Engineering Thermophysics, 2012, 21, 248-258. | 0.6 | 7 |
| 65 | Upgrading of Ilmenite Using KOH Sub-molten Salt Process Assisted by Mechanical Activation. Materials and Manufacturing Processes, 2014, 29, 1284-1288. | 2.7 | 7 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | Numerical Modeling of Particulate Matter Dispersion from Kerman Cement Plant, Iran. Environmental Monitoring and Assessment, 2007, 130, 73-82. | 1.3 | 6 |
| 70 | Introducing a new formula based on an artificial neural network for prediction of droplet size in venturi scrubbers. Brazilian Journal of Chemical Engineering, 2012, 29, 549-558. | 0.7 | 6 |
| 71 | Ion Exchange Resin Technology in Recovery of Precious and Noble Metals. , 2019, , 193-258. | | 6 |
| 72 | 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 |

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|---|---------|----|-----------|
| 73 | 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 |
| 74 | 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 |
| 75 | The effect of radio-waves irradiation on copper-ore leaching. Hydrometallurgy, 2021, 201, 105584. | 1.8 | 5 |
| 76 | Combination of CFD and DOE for optimization of thermosyphon heat pipe. Heat and Mass Transfer, 2022, 58, 561-574. | 1.2 | 5 |
| 77 | 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 |
| 78 | A laboratory study of hot WAG injection into fractured and conventional sand packs. Petroleum Science, 2009, 6, 400-404. | 2.4 | 4 |
| 79 | Estimation of the compressive strength of 28-day-old concrete by use of an adaptive cuckoo–fuzzy logic model. Research on Chemical Intermediates, 2013, 39, 4001-4009. | 1.3 | 4 |
| 80 | Polymerized Ionic Liquids as Antimicrobial Materials. Environmental and Microbial Biotechnology, 2021, , 87-126. | 0.4 | 4 |
| 81 | 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 |
| 82 | Computational Fluid Dynamics Simulation of Two-dimensional Natural Convection in a Fractured Porous Medium. Heat Transfer Engineering, 2017, 38, 1606-1615. | 1.2 | 3 |
| 83 | 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 |
| 84 | Modeling and optimization of radish root extract drying as peroxidase source using spouted bed dryer. Scientific Reports, 2021, 11, 14362. | 1.6 | 3 |
| 85 | Permeability Estimation in Petroleum Reservoir by Meta-heuristics: An Overview. , 2015, , 269-285. |  | 3 |
| 86 | 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 |
| 87 | Optimization of the reflux ratio of benzene-toluene stage distillation columns by the Cuckoo algorithm. Petroleum Science, 2014, 11, 446-453. | 2.4 | 2 |
| 88 | Non-linear boundary conditions for the convection-diffusion equation in lattice Boltzmann framework. Chemical Engineering Science, 2022, 247, 116925. | 1.9 | 2 |
| 89 | Impact of natural convection and diffusion on variation of oil composition through a fractured model. Scientia Iranica, 2016, 23, 2811-2819. | 0.3 | 2 |
| 90 | 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 |

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|---|---------|-----|-----------|
| 91 | Optimal loading of omecamtiv mecarbil by chitosan: A comprehensive and comparative molecular dynamics study. Journal of Molecular Liquids, 2021, 322, 114908. | 2.3 | 1 |
| 92 | Membrane Reactors for Green Synthesis. Advances in Science, Technology and Innovation, 2021, , 139-161. | 0.2 | 1 |
| 93 | Remediation of Pollution by Oil Spills. Environmental Chemistry for A Sustainable World, 2021, , 387-499. | 0.3 | 1 |
| 94 | Carbon-Based Materials for Desalination. Advances in Science, Technology and Innovation, 2021, , 197-212. | 0.2 | 1 |
| 95 | Comparison of dissolution in a calcite fracture by isothermal and non-isothermal models. Computational Geosciences, 2022, 26, 401-421. | 1.2 | 1 |
| 96 | Molecular dynamics insight into the behaviour of 5-nonylsalicylaldoxime and its complex with Cu(II) in different diluent/water systems. Journal of Molecular Liquids, 2019, 291, 111350. | 2.3 | 0 |
| 97 | Numerical analysis of steady and transient magnetohydrodynamic flows around a cylinder. International Journal of Modern Physics C, 0, , . | 0.8 | 0 |