

# Mohammad-Reza Mohammadi

## List of Publications by Year in descending order

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15  
papers

316  
citations

840776

11  
h-index

996975

15  
g-index

15  
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15  
docs citations

15  
times ranked

97  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling hydrogen solubility in alcohols using machine learning models and equations of state. <i>Journal of Molecular Liquids</i> , 2022, 346, 117807.	4.9	16
2	Application of robust machine learning methods to modeling hydrogen solubility in hydrocarbon fuels. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 320-338.	7.1	26
3	Modeling Interfacial Tension of N <sub>2</sub> /CO <sub>2</sub> Mixture + n-Alkanes with Machine Learning Methods: Application to EOR in Conventional and Unconventional Reservoirs by Flue Gas Injection. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 252.	2.0	11
4	Modeling solubility of CO <sub>2</sub> –N <sub>2</sub> gas mixtures in aqueous electrolyte systems using artificial intelligence techniques and equations of state. <i>Scientific Reports</i> , 2022, 12, 3625.	3.3	26
5	Toward predicting SO <sub>2</sub> solubility in ionic liquids utilizing soft computing approaches and equations of state. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 133, 104220.	5.3	14
6	On the evaluation of asphaltene adsorption onto dolomite surface: The roles of flow condition, composition of asphaltene, and dolomite size. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 9411-9425.	6.4	8
7	Modeling surface tension of ionic liquids by chemical structure-intelligence based models. <i>Journal of Molecular Liquids</i> , 2021, 342, 116961.	4.9	23
8	Modeling hydrogen solubility in hydrocarbons using extreme gradient boosting and equations of state. <i>Scientific Reports</i> , 2021, 11, 17911.	3.3	52
9	Experimental Measurement and Equilibrium Modeling of Adsorption of Asphaltenes from Various Origins onto the Magnetite Surface under Static and Dynamic Conditions. <i>ACS Omega</i> , 2021, 6, 24256-24268.	3.5	10
10	On the evaluation of crude oil oxidation during thermogravimetry by generalised regression neural network and gene expression programming: application to thermal enhanced oil recovery. <i>Combustion Theory and Modelling</i> , 2021, 25, 1268-1295.	1.9	21
11	Application of cascade forward neural network and group method of data handling to modeling crude oil pyrolysis during thermal enhanced oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108836.	4.2	50
12	Toward mechanistic understanding of asphaltene adsorption onto quartz surface: The roles of size, concentration, and hydrophobicity of quartz, asphaltene composition, flow condition, and aqueous phase. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108820.	4.2	11
13	Evaluation of asphaltene adsorption on minerals of dolomite and sandstone formations in two and three-phase systems. <i>Advances in Geo-Energy Research</i> , 2021, 5, 39-52.	6.0	23
14	Modeling of nitrogen solubility in unsaturated, cyclic, and aromatic hydrocarbons: Deep learning methods and SAFT equation of state. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 131, 104124-104124.	5.3	12
15	Modeling of nitrogen solubility in normal alkanes using machine learning methods compared with cubic and PC-SAFT equations of state. <i>Scientific Reports</i> , 2021, 11, 24403.	3.3	13