

Paper Code	Title / Authors
Thermodynamics	
1008	A Comprehensive CO₂ Capturing Pilot Plant and a Modified Volume Translated Correlation in Peneloux-Lin & Duan Equations for Calculation of Alkanolamine Densities H. R. Kalatjari
1010	Experimental Evaluation of Two Predictive Models in a TEG Dehydration Pilot Plant H. R. Kalatjari
1023	Investigation of the impact of calcination on phase structure, chemical composition and Thermal stability of Magnesium Silicate M. Dayani, J. Sargolzaei*
1061	Thermodynamic Modeling of CO₂ Absorption in Pure and Mixed Deep Eutectic Solvent Systems via NRTL-PR A. Jafari, F. Karami, A. Haghtalab*
1320	Thermodynamic Modeling of Methane Hydrate Equilibrium in TBAC Solution S. Najmaie, A. Askarizadeh, H. Bagheri*, S. Ghader
1547	Evaluation of Coconut Oil-Based Antifoams in Diethanolamine Solutions H. Karami, S. Haghighat Pajoo, Kargar, L. Zargarzadeh*
1608	Examining Phase Equilibria and Tie Line Characteristics of PEG400:ChCl (4:1)-K₂HPO₄ Aqueous Two Phase Systems S. Esmaeili, J. Rahbar Shahrrouzi*
1634	Conceptual Design of a Three Dimensional Twisted Impeller for Enhanced 3D Mixing, Dead-Zone Reduction, and Energy Efficiency Improvement F.Khalili*, A. Shojai, S. Mohammadi Motlagh
1636	A Waste-to-Resource Strategy: Simultaneous Extraction of Antimony and Zinc from EAF Dust Blended with Low-Grade Stibnite Ore S. M. Moosavi-Nezhad
1723	Thermodynamic and environmental analysis of azeotropic mixture separation using exergy analysis and life cycle assessment M. Koushki*, M. Orouji
1773	Data driven artificial intelligence models for prediction of Excess Enthalpy, viscosity and molar heat capacity in hydrogen systems Z. Nouri, A. Naghash Asadi, A. Safaei*, R. Pouryousef, M. Mohammadi-Khanaposhtani
1790	Effect of Polyethylene Glycol Versus Pure and Impure Glue Additives on Cathode Quality in Copper Electrowinning A. Heidari Alikhani, F. Adkia, A. Mohebbi*, A. Abolghasemi Mahani
1797	A Simple and Generalized Empirical Correlation for Predicting Hydrate Suppression Temperature M. R. Eftekhari, J. Javanmardi*, A. Rasoolzadeh
1855	Predictive Modeling and Analysis of Gas Hydrate Suppression Temperature Using Freezing Point Depression and Water Activity Z. Ahmadzad Khojasteh, J. Javanmardi*, A. Rasoolzadeh
1917	Synthesis of Acrylic Acid-Based Nano-Polymer Demulsifier for Water Separating in Crude Oil Emulsions M. Mombeni, P. R. Parvasi*, Y. Alavi, M. Jokar
1978	Regeneration of Deep Eutectic Solvent in Extractive Desulfurization Process H. Kazemi Golbaghi, V. Mohebbi*
1985	Prediction of the Hydrogen Fugacity Coefficient: A Comparative Study of Peng-Robinson and Soave-Redlich-Kwong Equations of State M. Rezaee Jouybari, S. Abdi*, M. Nasiri
2056	Gypsum Crystallization from Phosphoric Acid Solution Under Dihydrate Process Conditions F. Feizollah, T. Yadegar, F. S. Fatemina*
2078	Enhancing Predictive Accuracy: Interaction Parameters of Temperature-Dependent for CO₂-Ionic Liquid Systems with PR and SRK Models H. Heydari*, S. Salimi