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### Papers in Conferences

1. امین مرادیان، محمدحسین اقبال احمدی، مرتضی عزیزیان شریف اباد، بررسی فعالیت و پایداری کاتالیستهای ریفرمر. در واحد احیا مستقیم شرکت آهن و فولاد ارفع، سمپوزیوم فولاد ۴۰۱، کیش، ۲۰۲۲، ۱۱

### Papers in Journals

1. H Eghbalahmadi, P Khadiv و Parsi, SMA Mousavian, MHE Ahmadi. Development of a CFD-based simulation model and optimization of thermal diffusion column: application on noble gas separation. *Chemical Product and Process Modeling*, ۲۰۲۱.
2. Fathollahi, M., Eghbal Ahmadi M.H, & Hosseini, S. M. J. Simulation of particle pneumatic conveying process: electrostatic charge and hazard evaluation. *Journal of Biochemical Technology*, ۲۰۱۹.
3. محمدحسین اقبال احمدی، سید جاوید روئیایی، شکوفه طیبی، مدلسازی فرآیند تبخیر ناگهانی با استفاده از روش فازی. ممدانی و مفهومی جدید به نام ترکیب درصد فازی، مجله پژوهش نفت، ۱۳۹۶.
4. Amir Mosayebi, & Mohammad Hosein Eghbal Ahmadi, Combined steam and dry reforming of methanol process to syngas formation: Kinetic modeling and thermodynamic equilibrium analysis, *Energy*, 2022 9 1.
5. H Eghbalahmadi, P Khadiv, & parsi, SMA Mousavian, MH Eghbal Ahmadi, Development of a CFD-based simulation model and optimization of thermal diffusion column: application on noble gas separation, *Chemical Product and Process Modeling*, 2021 11 19.
6. Amir Mosayebi, & Mohammad Hosein Eghbal Ahmadi, Combined steam and dry reforming of methanol over Fe-Mn-Cu/ZrO<sub>2</sub> catalyst to syngas formation: Study about kinetic and fuzzy model approaches, *International Journal of Energy Research*, 2021 04 08.
7. Mohammad Hosein Eghbal Ahmadi, & Amir Mosayebi, Fischer – Tropsch synthesis over Co-Ni/Al<sub>2</sub>O<sub>3</sub> catalyst: Comparison between comprehensive kinetic modeling, Artificial Neural Network, and a novel hybrid GA-Fuzzy models, *Journal of the Taiwan Institute of Chemical Engineers*, 2021.
8. M.H.Eghbal Ahmadi, SJ Royae, S Tayyebi, RB Boozarjomehry, A new insight into implementing Mamdani fuzzy inference system for dynamic process modeling: Application on flash separator fuzzy dynamic modeling, *Engineering Applications of Artificial Intelligence*, 2020.
9. Rad A., Rashtchian D., Eghbal Ahmadi M.H, Optimum Placement of Gas Detectors Considering Voting Strategy with Different Detection Set Points, *Journal of Loss Prevention in the Process Industries*, 2018.
10. Eghbal Ahmadi M.H, Royae S.J., Tayyebi S., and Boozarjomehry, R. B, Development of Genetically tuned Fuzzy dynamic model for nonlinear dynamical systems: Application on reaction section of Tennessee Eastman process, *Scientia Iranica*, 2018.
11. Eghbal Ahmadi M.H., Rad A, Plant-Wide Simulation Model for Modified Claus Process Based on Simultaneous Data Reconciliation and Parameter Estimation, *Chemical engineering transaction*, 2017.

12. Eghbal Ahmadi, M. H., Data reconciliation and gross error detection: application in chemical processes, Cumhuriyet science journal, 2015.
13. Eghbal Ahmadi, M. H., Zaerpour, M., Daneshpayeh, M., & Mostoufi, N., Optimization of Fluidized Bed Reactor of Oxidative Coupling of Methane, International journal of chemical reactor engineering, 2012.