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Papers in Conferences

1. محمد ایرانی, A computational fluid dynamic simulation for CO₂/CH₄ membrane separation process, The 12th International Chemical Engineering Congress & Exhibition (ICChEC 2023), 1 - 13 12 2023, تهران.
2. S.A Razavi_ E Nemati Lay, INDUSTRIAL CHALLENGES OF HDPE FLUID BED DRYING IN DIFFERENT GRADES, 4th International Conference on Recent Innovations in Chemistry and Chemical Engineering, تهران, ۲۰۱۷, ۱۴ ۷.
3. erfani Omid و Priya Izadi_Mohammad Reza Shafeghi_Ebrahim Nemati Lay, Evaluation of ethylene glycol production methods, Third National Conference on Modern Technologies in Chemistry, Petrochemicals and Nano-Iran, تهران, ۲۰۱۶, ۱۱ ۶.
4. Gholamhossein Abbasi Barzoki _ Alireza Abbasi Barzoki _Ebrahim Nemati Lay, Heat-integrated condenser for essential oil extraction process, The First Iranian Seminar of Essential oil, کاشان, ۲۰۱۶, ۱۰ ۵.
5. Behzad Nematalahi_Ali Hasan Zadeh_Mehran Rezaee_Ebrahim Nemati Lay, Low Temperature CO Methanation over High Surface Area Ni/□-Al₂O₃ Nanocatalysts for CO Removal of H₂-rich Stream, The ۱۵th Iranian National Congress of Chemical Engineering (ICChEC ۲۰۱۵), تهران, ۲۰۱۵, ۱۷ ۲.
6. Mojtaba Abdollahi_Ebrahim Nemati Lay_Ehsan Sanjari, Experimental Analysis on Effects of Cycling Operation of Methane Adsorption and Desorption on Monolithic Activated Carbon, 4th International Conference on Power and Energy Systems Engineering, CPESE 2017, 26 9 2017, برلین.
7. Marzieh zamani mazdeh_Ebrahim nemati lay, EXPERIMENTAL STUDY OF KOH-ACTIVATION ON METHANE ADSORPTION AND DESORPTION ON MONOLITHIC ACTIVATED CARBONS AT 293.15K, 5TH International Conference of Iran Chemistry, Chemical Engineering And Nano, Tehran, Iran, 8 2017, تهران, 31.
8. Elaheh Mirzakhani _Ebrahim Nemati Lay, Thermal Capacity Modeling of Amorphous and Semi-Crystalline Linear Polymers with Aromatic Ring, Venue: Fourth International Conference on Recent Chemical Innovations and Chemical Engineering, تهران, 2017, 14 7.
9. S.A Razavi Alavi_ E Nemati Lay_S.K.Afzali_S.A.Alizadeh Makhmali, Theoretical, industrial and CFD study of double-cyclone in HDPE drying, 4th International Conference on Recent Innovations in Chemistry and Chemical Engineering, تهران, 2017, 14 7.
10. _Masoumeh Sadat Hosseini _ Ebrahim Nemati Lay, A new pressure gradient correlation for oil-water dispersed flow in horizontal pipes, 4th International Conference on Recent Innovations in Chemistry and Chemical Engineering, تهران, 2017, 14 7.
11. Seyed Abolfazl Razavi Alavi, Ebrahim Nemati Lay, Kamal Afzali, Appropriate operating conditions of cyclones for HDPE drying process, 20th European Symposium on Polymer Spectroscopy, 2016, درسدن, 11 9.

12. _Erfan Omid _ Priya Izadi _ Mohammad Reza Shafeghi _ Amir Mohammad Norouzi_ ebrahim nemati lay ,Characteristics of Authors Article Review of Methods of Production of Ethylene Glycol ,Third National Conference on Modern Technologies in Chemistry, Petrochemicals and Nano-Iran ,تهران, 11 6 2016,.
13. Seyed Ali Reza Hosseini Nasab, Ebrahim Nemati Lay ,Effects of temperature and pressure on exergy analysis in solar energy storage systems ,11th International Energy Conference ,5 2016, تهران 30.
14. Arash Kadivar, Ebrahim Nemati Lay ,Modeling and Optimization of Gas Metering Using Genetic Algorithm ,11th International Energy Conference ,30 5 2016, تهران.
15. Maryam MashayekhPoor_Ebrahim Nemati Lay ,EXPERIMENTAL INVESTIGATION OF PRESSURE DROP OF COUNTER CURRENT AIR-WATER FLOW IN A VERTICAL COLUMN ,9th International Conference on Multiphase Flow (ICMF 2016) ,22 5 2016, فیرنزه.
16. Maryam MashayekhPoor_Ebrahim Nemati Lay ,A NEW TWO-PHASE FRICTIONAL PRESSURE DROP FOR ADIABATIC AND CONDENSING MINI/MICRO-CHANNEL FLOWS ,9th International Conference on Multiphase Flow (ICMF 2016) ,22 5 2016, فیرنزه.
17. Seyed Abolfazl Sajjadi Nooshabadi, Ebrahim Nemati Lay ,Modeling the Critical Properties of Organic Substances Using Adaptive Neuro-Fuzzy Inference System ,Third National Conference and First International Conference on Applied Research in Chemistry and Chemical Engineering ,22 4 2016, تهران.
18. S.A. Razavi Alavi, E. Nemati Lay, Z.S. Alizadeh Makhmali ,Investigation of effective operational parameters on an industrial double-cyclone of HDPE fluidized bed drying ,The 9th International Chemical Engineering Congress & Exhibition (ICChE 2015) ,26 12 2016, شیراز.
19. Mina karami Nezhad_Ebrahim Nemati Lay ,NaOH activation of activated carbon for methane storage ,The 9th International Chemical Engineering Congress & Exhibition (ICChE 2015) ,12 2015, تهران 26.
20. Marzieh Zamani Mazdeh_Ebrahim Nemati Lay ,Separation and Adsorption of Methane and Hydrogen Gas Mixture on Two Nano-porous Activated Carbon Monoliths at 298.15K ,2nd International Conference on Nanotechnology (ICN 2014 ,10 7 2014, استانبول).
21. M.A.Hosseini_E.Nemati.Lay ,PRESSURE GRADIENT CORRELATION FOR OIL-WATER DISPERSED FLOW IN HORIZONTAL ACRYLIC PIPES ,2nd International Conference Of Oil, Gas And Petrochemical ,18 12 2014, تهران.
22. Behzad Nematollahi_Mehran Rezaee_Ebrahim Nemati Lay ,Methanation of Carbon Monoxide over Nickel-Ceria Nanocatalysts in Hydrogen Purification ,2nd International Conference Of Oil, Gas And Petrochemical ,18 12 2014, تهران.

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1. سیدامیرحسین عودی, شیوا یارمحمدیان, مریم حسینی, ابراهیم نعمتی لای, بهینه سازی ضرایب الگوریتم بهینه سازی ازدحام ذرات برای حل مساله توزیع بار اقتصادی جهت کاهش انتشار آلاینده ها ی محیط زیست, مدل سازی در ISC, مهندسی, مجلد ۲۱, شماره صفحات ۱۴۰۳/۱۰/۰۱, ۲۹۷.
2. سیدامیرحسین عودی, شیوا یارمحمدیان, مریم حسینی, ابراهیم نعمتی لای, بهینه سازی ضرایب الگوریتم بهینه سازی ازدحام ذرات برای حل مساله توزیع بار اقتصادی جهت کاهش انتشار آلاینده ها ی محیط زیست, مدل سازی در ISC, مهندسی, مجلد ۲۱, شماره صفحات ۱۴۰۳/۱۰/۰۱, ۲۹۷.
3. Simulation and optimization of Venturi type bubble generator to improve cavitation, Chemical Product and Process Modeling, 2025 02 24, ISI-Listed , SCOPUS.
4. Simulation and optimization of Venturi type bubble generator to improve cavitation, Chemical Product and Process Modeling, 2025 02 20, ISI-Listed , SCOPUS.
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8. An Empirical Correlation for Predicting Vapor Pressure of Ionic Liquids, *Journal of Ionic Liquids*, Vol. 2, pp. 1, 2022 12 31, SCOPUS.
9. هادی عمیدزاده, ابراهيم نعمتی لای, علیرضا محبی, عرفان کاملی, Simulation of Dehydration Unit with a Pre-cooler to Improve the Hydrate Formation Temperature of Natural Gas, *Gas Processing Journal*, Vol. 10, pp. 95, 2022 11 27, SCOPUS ,ISI-Listed.
10. Development of a dimensionless and dynamic model of the three-phase trickle bed reactor in light naphtha isomerization process: effects of axial mass dispersion and liquid-solid mass transfer on isomers concentration, *International Journal of Chemical Reactor Engineering*, Vol. 29, pp. 1, 2022 08 18, SCOPUS ,JCR.
11. Simon Stehle , Ebrahim Nemat Lay , Alessandro Triolo , Nora Ventosa , Andreas Siegfried Braeuer, A fast and remote screening method for sub-micro-structuration in pressurized mixtures containing water and carbon dioxide, *The Journal of Supercritical Fluids*, October 2019.
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17. Ehsan Sanjari_Ebrahim Nemat Lay, Evaluation of correlations for optimizing gas mixture compressibility factors applicable to natural gas storage and transportation, *Journal of Natural Gas Science and Engineering*, November 2010.
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19. Behzad Nematollahi , Mehran Rezaei , Ebrahim Nemat Lay, Selective methanation of carbon monoxide in hydrogen rich stream over Ni/CeO₂ nanocatalysts, *Journal of Rare Earths*, June 2015.
20. Maryam Mashayekhpour , Cristian Marchioli , Salvatore Lovecchio , Ebrahim Nemat Lay , Alfredo Soldati, Wind effect on gyrotactic micro-organism surfacing in free-surface turbulence, *Advances in Water Resources*, July 2019.
21. Mojtaba Abdollahi , Ebrahim Nemat Lay , Ehsan Sanjari, Experimental Analysis on Effects of Cycling Operation of Methane Adsorption and Desorption on Monolithic Activated Carbon, *Energy Procedia*, December 2017.
22. Amir Alihosseinzadeh_Behzad Nematollahi_Mehran Rezaei_Ebrahim Nemat Lay, CO methanation over Ni catalysts supported on high surface area mesoporous nanocrystalline γ -Al₂O₃ for CO removal in H₂-rich stream, *International Journal of Hydrogen Energy* Volume 40, Issue 4, , Pages, pp. 1809-1819, 30

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26. Seyedalireza Hosseininasab , Ebrahim Nematilay,Critical Modeling & Exergy Analysis of Multi Phase Change Materials Storage System,Chemical Product and Process Modeling,2017 07 28.
27. Behzad Nematollahi , Mehran Rezaei , Ebrahim Nematilay,Synthesis of Nanocrystalline CeO₂ with High Surface Area by the Taguchi Method and its Application in Methanation,chemical engineeringThechnology,2014 12December.
28. Behzad Nematollahi , Mehran Rezaei , Morteza Asghari , Ali Fazeli , Ebrahim Nematilay , Farhad Nematollahi,A comparative study between modeling and experimental results over rhodium supported catalyst in dry reforming reaction,Fuel,pp. (565-572),2014.
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