



بسمه تعالی

خلاصه سوابق علمی و اجرایی



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دانشیار دانشکده مهندسی شیمی، نفت و گاز دانشگاه سمنان

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تحصیلات

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- عنوان رساله دکتری: شناسایی فرمولاسیون گل حفاری سنتزی مناسب برای حفاری چاه‌های نفت دریایی
- Ph.D. Thesis: Identification of a Synthetic Drilling Fluid Appropriate for Offshore Oil Well Drilling
- فرصت مطالعاتی در دانشگاه ایالتی لوئیزیانا (Louisiana State University) در سال ۲۰۰۶
 - فرصت مطالعاتی در دانشگاه میشکولتس مجارستان (University of Miskolc) در سال ۲۰۲۳

سوابق پژوهشی

- داور مجلات علمی بین‌المللی (تاکنون-۲۰۰۸)
- عضو هیات تحریریه مجله Journal of Heat and Mass Transfer Research (تاکنون-۲۰۱۴)
- عضو هیات تحریریه مجله Progress in Engineering Thermodynamics and Kinetics (تاکنون-۲۰۲۲)
- مدیر "هسته شتابدهی نوآوری و پژوهش در هیدروژن سبز"، دانشگاه سمنان (تاکنون-۲۰۲۴)

سوابق اجرایی

- رئیس کمیسیون دائمی هیات امنای دانشگاه دامغان (تاکنون-۱۴۰۳)
- ریاست دانشگاه سمنان (از ۱۳۹۶/۱۲/۲۷ تا ۱۴۰۱/۱۰/۱۰)
- نماینده مقام عالی وزارت علوم، تحقیقات و فناوری در هیات امنای موسسه آموزش عالی غیردولتی- غیرانتفاعی فضیلت (-۱۳۹۷)
- معاون اداری و مالی دانشگاه سمنان (سال ۱۳۹۶ از ابتدا تا آخر اسفند)
- معاون دانشجویی دانشگاه سمنان (۱۳۹۰-۱۳۹۶)
- سرپرست معاونت فرهنگی دانشگاه سمنان (۱۳۹۳-۱۳۹۵)
- مدیر گروه آموزشی طراحی فرآیندهای نفت (۱۳۸۸-۱۳۹۴)
- مدیر گروه آموزشی مخازن هیدروکربوری (۱۳۹۲-۱۳۹۴)
- رئیس دفتر ریاست و روابط عمومی دانشگاه (۱۳۸۹-۱۳۹۳)
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- مسئول تحصیلات تکمیلی دانشکده مهندسی شیمی، نفت و گاز (۱۳۸۹-۱۳۹۰)
- مدیر دفتر همکاری‌های علمی و بین المللی دانشگاه (۱۳۸۹-۱۳۹۱)
- مسئول راه اندازی دانشکده مهندسی نفت پردیس علوم و فناوری‌های نوین دانشگاه (۱۳۹۰-۱۳۹۴)
- عضو شورای سیاستگذاری پردیس دانشگاه (بین الملل دانشگاه سمنان) (۱۳۹۱-)
- مسئول کمیته برنامه‌ریزی و سیاستگذاری بزرگداشت چهلمین سال تاسیس دانشگاه سمنان (۱۳۹۱)
- عضو هیات علمی دانشکده مهندسی شیمی، نفت و گاز، دانشگاه سمنان (تاکنون-۱۳۸۸).
- رئیس دانشکده فنی و مهندسی دانشگاه ملایر (۱۳۸۵-۱۳۸۷)
- معاون پژوهشی مجتمع آموزش عالی ملایر (۱۳۸۴-۱۳۸۵)
- معاون اداری و مالی مجتمع آموزش عالی ملایر (۱۳۸۰-۱۳۸۲)

زمینه‌های تحقیقاتی

- فرایندهای جداسازی
- فرآیندهای غشایی
- خواص ترمودینامیکی سیالات مخزن
- ازدیاد برداشت نفت
- ذخیره‌سازی زیر سطحی گاز هیدروژن
- سیالات حفاری

عناوین مورد تدریس

- ترمودینامیک مهندسی شیمی ۱
- ترمودینامیک مهندسی شیمی ۲
- شیمی فیزیک مهندسی
- مقدمات مهندسی نفت
- محاسبات مهندسی پالایش نفت
- روش‌های اندازه‌گیری
- ترمودینامیک پیشرفته
- روش‌های خاص جداسازی
- پدیده‌های سطحی
- سیالات حفاری

اختراعات ثبت شده

- Abdi, S., Nasiri, M., Semnan University, Removal of non-steroidal anti-inflammatory drugs from aqueous solutions using PES/MOF-808@PA thin film nanocomposite membranes, *Iranian Industrial Property General Office*, Patent No. 111937, **2024** Nov. 13 (Scientific confirmation was obtained from Science and Technology Park of Semnan University, **2025** Jun. 15)
- Abdi, S., Nasiri, M., Semnan University, Selective separation of gold and palladium using the Gemini micellar enhanced ultrafiltration process, *Iranian Industrial Property General Office*, Patent No. 109668, **2023** Aug. 19 (Scientific confirmation was obtained from Iranian Research Organization for Science and Technology, **2024** Feb. 18).
- Abdi, S., Nasiri, M., Azhdari, A., Semnan University, Improvement of the surface properties of PES membranes with aluminum fumarate nanoparticles as a metal-organic framework material, *Iranian Industrial Property General Office*, Patent No. 98981, **2019** July 10 (Scientific confirmation was obtained from Science and Technology Park of Semnan University, **2020** Feb. 17).
- Zarei, Gh., Nasiri, M., Maleki, A., Heydari, A., Mohajerani, H., Synthesis of Engelhard titanasilicate-10 polyacrylonitrile composite nanofibers by electrospinning method and Ion

exchange mechanism for the adsorption of heavy metals, *Iranian Industrial Property General Office*, Patent No. 86930, **2015** Oct.18.

- Abdi, S., Nasiri, M., Khani, M.H., Adsorption of thorium ions from aqueous solution by polyaniline nanocomposites, *Iranian Industrial Property General Office*, Patent No. 84110, **2014** Oct. 27.
- Khodapanah, E., Haddadi, A., Nasiri, M., Naderi, M.M, Tabatabaei Nezhad, A., Construction of Asmari reservoir similar to the space inside the oil well for laboratory study of the effect of retention time of carbon dioxide gas on the formation of asphaltene sediment, *Iranian Industrial Property General Office*, Patent No. 81511, **2013** Nov. 9.
- Khodapanah, E., Naderi, M.M, Tabatabaei Nezhad, A., Nasiri, M., Haddadi, A., Investigation the effect of retention time on the permeability of compressed sand retainer at Asmari reservoir temperature and pressure, *Iranian Industrial Property General Office*, Patent No. 81511, **2013** Oct. 25.
- Ashrafizadeh, S. N., Nasiri, M., Design of formulation of synthetic-based drilling fluids for drilling oil and gas wells in the offshore drilling and high-temperature conditions, *Iranian Industrial Property General Office*, Patent No. 48476, **2008** May 5.

کتاب

- Nasiri, M., Abdi, S. (**2020**). Introduction to Dissipative Particle Dynamics (DPD) Simulation, 1st Ed. Semnan: *Semnan University Press*.
- Bahman, J., Nasiri, M., Sabeti, M., & Mohammadi, A. H. (**2017**). An Introduction to Asphaltenes Chemistry. *Heavy Oil: Characteristics, Production and Emerging Technologies*. Nova Science Publishers: NewYork, NY, USA, 15.
- Nasiri, M., Abbaszadeh, M. (**2015**). Wettability, 1st Ed. Semnan: *Semnan University Press*.
- Ashrafizadeh, S. N., Ghalambor, A., Nasiri, M. (**2007**). Ester-Based Drilling Fluids for High Temperature Drilling, *Smart Fields, Smart Wells and Smart Technologies (Progress in Oilfield Chemistry)*, Akadémiai Kiadó, 7, 37-58.

طرح‌های پژوهشی

- Separation of carcinogenic compounds, especially nitrate ions from drinking water using membrane processes, **2014**.

مقالات منتشر شده

الف- مقالات چاپ شده در ژورنال‌های خارجی و ISI

- Abdi, S., & Nasiri, M. (2025). Enhanced performance of thin film nanocomposite (TFN) membranes by incorporating hydrophilic MOF-808 into the organic phase: Towards eliminating non-steroidal anti-inflammatory drugs (NSAIDs) from aqueous solutions. *Desalination*, 601, 118590.
- Abdi, S., Nasiri, M., & Van der Bruggen, B. (2025). Optimization of parameters affecting the separation of gold and palladium using the response surface methodology. *Environment, Development and Sustainability*, 1-28.
- Shojaei, S., & Nasiri, M. (2024). Investigation of the Effect of SCA Surfactant on Enhanced Oil Recovery Using Glass Micromodel. *Arabian Journal for Science and Engineering*, 1-12.
- Ghasemi, Z., Abdi, S., Nasiri, M. (2024). Removal of High Concentrations of Arsenite from Aqueous Solutions by the Emulsion Liquid Membrane Technique. *ChemistrySelect*, 9(8), e202304952.
- Zolfaghari, M., Nasiri, M., & Haghighi Asl, A. (2024). Evaluating the Effectiveness of Piperazine on Carbon Dioxide Loading in N-Methyl Diethanolamine Aqueous Solutions and Water/Oil Microemulsions. *Journal of Chemical & Engineering Data*, 69(5), 1884-1896.
- Jahromi, S. A., Farahavar, G., Zarandi, M. N., & Tamaddon, A. M. (2023). Unraveling the potential of polydopamine-assisted photoresponsive polyurethanes for industrial and biomedical applications. *Journal of Industrial and Engineering Chemistry*, 130, 73-90.
- Zolfaghari, M., Nasiri, M., & Haghighi Asl, A. (2023). Properties and Phase Behavior of Water-Tween-Kerosene Microemulsions and Prediction of Their Viscosity. *Chemical Engineering & Technology*, 46(10), 2081-2089.
- Yarahmadi, A., Khani, M. H., Nasiri, M., Amini, Y., Yadollahi, A. (2023). Ce (III) and La (III) ions adsorption using Amberlite XAD-7 resin impregnated with DEHPA extractant: response surface methodology, isotherm and kinetic study. *Scientific Reports*, 13(1), 9959.

- Yarahmadi, A., Khani, M. H., Nasiri, M., Amini, Y. (2023). Ce (III) and La (III) ions adsorption through Amberlite XAD-7 resin impregnated via CYANEX-272 extractant. *Scientific Reports*, 13(1), 6930.
- Rahnama Haratbar, P., Nasiri, M., & Ghaemi, A. (2023). Hypercrosslinked polystyrene-based adsorbents for the removal of lead ions from aqueous effluents: Experimental and RSM modeling. *Iranian Polymer Journal*, 32(7), 929-946.
- Karambeigi, M. S., Hasan-Zadeh, A., Karameigi, M. S., Faal Rastegar, S. A., Nasiri, M., Kazemzadeh, Y. (2023). Multi-objective optimization of petroleum engineering problems using a hybrid workflow: Combination of particle swarm optimization, fuzzy logic, imperialist competitive algorithm and response surface methodology. *Geoenergy Science and Engineering*, 224, 211579.
- Abdi, S., Nasiri, M., Mai, Z. (2023). Effect of Conventional and Gemini Surfactants on the Micellar-Enhanced Ultrafiltration Process Performance for the Separation of Au(III) from Aqueous Solutions: A Dissipative Particle Dynamics Study. *Chemical Engineering Research and Design*, 191, 578-589.
- Abhari, P., Abdi, S., Nasiri, M. (2022). Effect of various types of anions and anionic surfactants on the performance of micellar-enhanced ultrafiltration process in the removal of Pb (II) ions: an optimization with the response surface methodology. *Chemical Engineering Research and Design*, 187, 332-346.
- Abdi, S., Nasiri, M., Van der Bruggen, B. (2022). Selective Separation of Gold and Palladium Using the Improved Gemini Micellar-Enhanced Ultrafiltration. *Chemical Engineering Journal*, 444, 136570.
- Shahrabadi, A., Babakhani Dehkordi, P., Razavirad, F., Noorimotlagh, R., & Nasiri Zarandi, M. (2022). Enhanced Oil Recovery from a Carbonate Reservoir During Low Salinity Water Flooding: Spontaneous Imbibition and Core-Flood Methods. *Natural Resources Research*, 31(5), 2995-3015.
- Rahnama Haratbar, P., Ghaemi, A., & Nasiri, M. (2021). Potential of hypercrosslinked microporous polymer based on carbazole networks for Pb (II) ions removal from aqueous solutions. *Environmental Science and Pollution Research*, 29(10), 15040-15056.
- Ghazvehi, M., Nasiri, M., Mallah, M. H., & Safdari, J. (2021). Influence of SiO₂ Nanoparticles and Surfactants on Extraction Efficiency: Sensitivity Analysis. *Chemical Engineering & Technology*, 44(10), 1929-1938.
- Abdi, S., Nasiri, M., Yuan, S., Zhu, J., Van der Bruggen, B. (2021). Fabrication of PES-based super-hydrophilic ultrafiltration membranes by combining hydrous ferric oxide particles and UV irradiation. *Separation and Purification Technology*, 259, 118132.

- Abdi, S., Nasiri, M., Khani, M. H. (2020). Application of polyaniline nanocomposites in the trapping of thorium ions from aqueous solutions: adsorption equilibrium, kinetics and thermodynamics. *Progress in Nuclear Energy*, 130, 103537.
- Pashaei, H., Ghaemi, A., Nasiri, M., & Karami, B. (2020). Experimental modeling and optimization of CO₂ absorption into piperazine solutions using RSM-CCD methodology. *ACS Omega*, 5(15), 8432-8448.
- Abdi, S., Nasiri, M. (2019). Enhanced hydrophilicity and water flux of poly (ether sulfone) membranes in the presence of aluminum fumarate metal–organic framework nanoparticles: preparation and characterization. *ACS Applied Materials & Interfaces*, 11(16), 15060-15070.
- Shamsodin, M., Fazli, M., & Nasiri, M. (2019). Comparison Study of Paraquat Herbicide Adsorption by Xerogels: Application of Experimental Design. *Environmental Progress & Sustainable Energy*, 38(s1), S128-S138.
- Heydarifard, M., Pashaei, H., Ghaemi, A., & Nasiri, M. (2018). Reactive absorption of CO₂ into Piperazine aqueous solution in a stirrer bubble column: Modeling and experimental. *International Journal of Greenhouse Gas Control*, 79, 91-116.
- Jafari, I., Masihi, M., & Nasiri, M. (2018). Scaling of counter-current imbibition recovery curves using artificial neural networks. *Journal of Geophysics and Engineering*, 15(3), 1062-1070.
- Bahman, J., Sharifi, K., Nasiri, M., & Haghighi Asl, M. (2018). Development of a Log-Log scaling law approach for prediction of asphaltene precipitation from crude oil by n-alkane titration. *Journal of Petroleum Science and Engineering*, 160, 393-400.
- Pashaei, H., Ghaemi, A., Nasiri, M., & Heydarifard, M. (2018). Experimental investigation of the effect of nano heavy metal oxide particles in Piperazine solution on CO₂ absorption using a stirrer bubble column. *Energy & Fuels*, 32(2), 2037-2052.
- Abdi, S., Nasiri, M. (2018). Removal of Fast Green FCF dye from aqueous solutions using Flower Gel as a low-cost adsorbent. *Water Science and Technology*, 77(5), 1213-1221.
- Shamsodin, M., Nasiri, M., & Fazli, M. (2018). Preparation and characterization of PES-xerogel nanocomposite ultra-filtration membrane. *Cellulose*, 25(10), 5939-5950.

- Karambeigi, M. S., Haghighi Asl, A., & Nasiri, M. (2018). Multi-Objective optimization of microemulsion flooding for chemical enhanced oil recovery. *Oil & Gas Sciences and Technology–Revue d'IFP Energies nouvelles*, 73, 4.
- Nasiri, M., & Soltani, A. (2018). Emulsion liquid membrane design in vitro for removal of lead from aqueous solution. *Oriental Journal of Chemistry*, 34(6), 2747.
- Nasiri, M., & Jafari, I. (2017). Investigation of the Effect of Nanoclay on Xanthan-Cr (III) Nanocomposite Gel Structure and Stability. *Special Topics & Reviews in Porous Media: an International Journal*, 8(1).
- Abdi, S., Nasiri, M., Mesbahi, A., Khani, M. H. (2017). Investigation of uranium (VI) adsorption by polypyrrole. *Journal of Hazardous Materials*, 332, 132-139. ***Highly Cited Paper***
- Nasiri, M., & Jafari, I. (2017). Produced water from oil-gas plants: A short review on challenges and opportunities. *Periodica Polytechnica Chemical Engineering*, 61(2), 73-81.
- Nasiri, M., Jafari, I., & Parniankhoy, B. (2017). Oil and gas produced water management: a review of treatment technologies, challenges, and opportunities. *Chemical Engineering Communications*, 204(8), 990-1005.
- Jafari, I., Masihi, M., & Nasiri Zarandi, M. (2017). Numerical simulation of counter-current spontaneous imbibition in water-wet fractured porous media: Influences of water injection velocity, fracture aperture, and grains geometry. *Physics of Fluids*, 29(11), 113305.
- Pashaei, H., Ghaemi, A., & Nasiri, M. (2017). Experimental investigation of CO₂ removal using Piperazine solution in a stirrer bubble column. *International Journal of Greenhouse Gas Control*, 63, 226-240.
- Pashaei, H., Nasiri, M., & Ghaemi, A. (2017). Experimental study and modeling of CO₂ absorption into diethanolamine solutions using stirrer bubble column. *Chemical Engineering Research and Design*, 121, 32-43.
- Jafari, I., Masihi, M., & Nasiri Zarandi, M. (2017). Experimental study on imbibition displacement mechanisms of two-phase fluid using micromodel: Fracture network, distribution of pore size, and matrix construction. *Physics of Fluids*, 29(12), 122004.
- Abbaszadeh, M., Nasiri, M., & Riazi, M. (2016). Experimental investigation of the impact of rock dissolution on carbonate rock properties in the presence of carbonated water. *Environmental Earth Sciences*, 75(9), 791.

- Karambeigi, M. S., Nasiri, M., Haghighi Asl, A., & Emadi, M. A. (2016). Enhanced oil recovery in high temperature carbonates using microemulsions formulated with a new hydrophobic component. *Journal of Industrial and Engineering Chemistry*, 39, 136-148.
- Pashaei, H., Ghaemi, A., & Nasiri, M. (2016). Modeling and experimental study on the solubility and mass transfer of CO₂ into aqueous DEA solution using a stirrer bubble column. *RSC Advances*, 6(109), 108075-108092.
- Abbaszadeh, M., Nasiri, M., & Riazi, M. (2016). Numerical simulation of countercurrent spontaneous imbibition of carbonated water in porous media. *Journal of Porous Media*, 19(7).
- Nasiri, M., & Jafari, I. (2016). Investigation of drilling fluid loss and its affecting parameters in one of the Iranian gas fields. *Bulgarian Chemical Communications*, 48, 306-312.
- Shahbazi, M. R., Khoshandam, B., Nasiri, M., & Ghazvini, M. (2012). Biodiesel production via alkali-catalyzed transesterification of Malaysian RBD palm oil—Characterization, kinetics model. *Journal of the Taiwan Institute of Chemical Engineers*, 43(4), 504-510.
- Nasiri, M., & Ashrafizadeh, S. N. (2010). Novel equation for the prediction of rheological parameters of drilling fluids in an annulus. *Industrial & Engineering Chemistry Research*, 49(7), 3374-3385.
- Nasiri, M., Ashrafizadeh, S. N., & Ghalambor, A. (2009). Synthesis of a novel ester-based drilling fluid applicable to high temperature conditions. *Journal of Energy Resources Technology*, 131(1).
- Ashrafizadeh, S. N., Saien, J., Reza, B., & Nasiri, M. (2008). Development of an empirical model to predict the effect of contaminants in liquid-liquid extraction. *Industrial & Engineering Chemistry Research*, 47(19), 7242-7249.

ب- مقالات علمی پژوهشی

- Nasiri, M., & Abdi, S. (2024). Fabrication and Performance Evaluation of the Polyamide Thin Film Composite Membrane in Desalination and Removal of Naproxen from Aqueous Solutions. *Applied Chemistry Today*, 19(72), 339-362.
- Nasiri, M., Zolfaghari, M., & Haghighi Asl, A. (2023). Evaluating the Ability of Methyl-diethanolamine/Piperazine Microemulsion in CO₂ Absorption. *Applied Chemistry Today*, 18(69), 33-44.

- Yarahmadi, A., Nasiri Zarandi, M., Khani, M. H., & Yadollahi, A. (2021). Kinetic, Equilibrium and Thermodynamic Studies of Cerium and Lanthanum Adsorption from Aqueous Solutions by Amberlit XAD-7 ion exchange resin impregnated with bis (2, 4, 4-trimethylpentyl) phosphinic acid extractant. *Journal of Separation Science and Engineering*, 13(1), 94-107.
- Yarahmadi, A., Nasiri Zarandi, M., & Khani, M. H. (2022). Investigation of effective parameters of Lanthanum and Cerium Adsorption from Aqueous solutions using Amberlit XAD-7 resin impregnated With DEHPA. *Journal of Nuclear Science, Engineering and Technology (JONSAT)*, 43(2), 103-113.
- Ghazvehi, M., Nasiri, M., Mallah, M. H., Safdari, J. (2021). Investigating the Effect of Nanoparticle and Surfactant on the Mass Transfer Coefficient in the Pulsed Packed Column. *Journal of Modeling in Engineering*, 19(66), 141-156.
- Ghazvehi, M., Nasiri, M., Mallah, M. H., & Safdari, J. (2021). Determining Effective Parameters on Hydrodynamic Characteristics of Pulsed Packed Column Using ANOVA Method: Determining Optimum Conditions with Maximum Extraction Efficiency. *Journal of Heat and Mass Transfer Research*, 8(2), 267-281.
- Shamsodin, M., Fazli, M., & Nasiri, M. (2019). Preparation and characterization of PES–Diatomaceous organic–inorganic composite ultrafiltration membrane. *Applied Chemistry Today*, 14(50), 235-248.
- Jafari, I., Masihi, M., & Nasiri Zarandi, M. (2019). An Analytical Solution for One-dimensional Horizontal Imbibition in a Cocurrent Flow. *Iranian Journal of Oil & Gas Science and Technology*, 8(3), 40-57.
- Shahrabadi, A., Parizad, K., Nasiri, M., & Abbasi, S. (2018). Experimental Investigation of Formation Damage due to Asphaltene Deposition in Crude Oils with Low Asphaltene Content. *Journal of Petroleum Research*, 28(99), 10-14.
- Naderi, M.M., Nasiri, M., Tabatabaei Nezhad, A. (2017). Experimental investigation of residence time effect on formation of asphaltene deposition. *Journal of Petroleum Research*, 26, 200-212.
- Shahrabadi, A., Nasiri, M., Khanlari, K., & Abbasi, S. (2016). An experimental investigation into the effect of injection pressure on formation damage due to asphaltene deposition in natural gas injection process. *Journal of Petroleum Research*, 25(84), 37-47.
- Shamsoddin, M., Fazli, M., Nasiri, M., & Haghbin, K. (2016). Removal of strontium (II) from aqueous solution by adsorption using xerogel synthesized by TEOS: kinetics and

thermodynamics study. *Iranian Journal of Chemistry & Chemical Engineering*, 34(4), 31-44.

- Shamsoddin, M., Nasiri, M., Fazli, M., & Haghbin, K. (2015). Removal of strontium (II) from aqueous solution by adsorption using xerogel synthesized from TEOS: Batch and Fixed-bed Study. *Applied Chemistry Today*, 9(33), 35-50.
- Abdi, S., Nasiri, M., Khani, M. H. (2015). Equilibrium and kinetic studies of thorium removal from aqueous solutions using polyaniline composite. *Applied Chemistry Today*, 9(33), 65-78.
- Karambeigi, M. S., Haghighi Asl, A., & Nasiri, M. (2014). The effect of oilfield chemicals on the surface tension of surfactant systems. *Journal of Petroleum Science and Technology*, 4(2), 56-66.
- Peyvandi, M., Haghighi Asl, A., Nasiri, M. (2012). Removal of Copper Ions from Wastewater through Membrane Filtration Methods. *Applied Chemistry Today*, 7(24), 99-109.

ج- مقالات علمی ترویجی

- Nayerabadi, A., Abdi, S., & Nasiri, M. (2024). Removal of lead ions from aqueous solutions using the micellar-enhanced ultrafiltration process: Response surface methodology optimization. *Progress in Engineering Thermodynamics and Kinetics*, 1(1).
- Jafari, I., Nasiri, M., Masihi, M. (2020). Simulation and investigation of methods to prevent the harmful effects of coning and water production on the environment in one of Iran's gas fields. *Oil & Gas Exploration & Production*, 176, 22-27.
- Ghaemi, A., Khani, M. H., Nasiri, M., Qasemi, M. (2016). The effect of using a secondary distributor on the hydrodynamics of the fluidized bed reactors. *Iranian Chemical Engineering Journal*, 14(82), 75-84.
- Nasiri, M., Jafari, I., Masihi, M., Parniankhoy, B. (2016). Prediction of flow behavior in dual-porosity media using Stehfest numerical algorithm and the superposition principle. *Oil & Gas Exploration & Production*, 138, 67-71.
- Nasiri, M., Jafari, I. (2015). Investigating the causes of drilling mud lost and variables affecting it in one of Iran's gas fields. *Oil & Gas Exploration & Production*, 128, 62-67.
- Nasiri, M., Abdi, S. (2015). Introduce a New Equation to Predict Amount of Adsorption. *Iranian Chemical Engineering Journal*, 14(80), 14-21.
- Zarei, G., Maleki, A., Heidari, A., & Nasiri, M. (2015). Synthesis and characterization of Nano-fibers ETS-10/PAN. *Journal of Radiation and Nuclear Technology*, 2(2), 53-59.

- Nasiri, M., Ashrafizadeh, S. N. (2009). Extraction of Starch from Potato and its Application in the Water-Based Drilling. *Iranian Chemical Engineering Journal*, 8(39).

د- مقالات ارائه شده در کنفرانس‌ها و همایش‌ها

- Joudaki, F., Abdi, S., Nasiri, M. (2025). A Review of Methods for Production and Underground Storage of Hydrogen Gas with the Potential Approach of Salt Caverns, *10th National Conference on Chemical, Petroleum and Environmental Engineering*.
- Karimi, B., Nasiri, M., Abdi, S. (2025). A review on the removal of non-steroidal anti-inflammatory drugs by adsorption, *10th National Conference on Chemical, Petroleum and Environmental Engineering*.
- Mohebbshahedin, M., Nasiri, M., Abdi, S. (2025). Investigating the Effect of Surfactants on the Surface Tension and Viscosity of Solution, *The 3rd International Conference of New Horizons in Chemical Engineering and Biotechnology with a Focus on Commercialization*.
- Amin, M., Nasiri, M., Abdi, S. (2024). A Review of Effective Parameters in the Separation of Metals by the Emulsion Liquid Membrane, *12th National Conference on Environment, Energy and Sustainable Natural Resources*.
- Abdi, S., Nasiri, M. (2024). A Review on the Advantages and Disadvantages of Polymeric Membranes and Membrane Fabrication Methods: Interfacial Polymerization, *First International Conference on Nanotechnology in Engineering Processes*.
- Moein, M.S., Nasiri, M., Abdi, S. (2024). Investigating the Effect of Different Parameters on the Stability of Foams, *First International Conference on Nanotechnology in Engineering Processes*.
- Shojaei, S., Nasiri, M. (2023). A review of microemulsion flooding on the glass micromodel, *9th International Conference on Chemical, Petroleum and Environmental Engineering*.
- Zolfaghari, M., Nasiri, M., Haghighi Asl, A. (2023). Investigation of the CO₂ Absorption into W/O and O/W Microemulsion with Different Aqueous Phases, *11th International Conference on Chemistry, Chemical Engineering and Petroleum*.
- Khosravi, B., Nasiri, M., Abdi, S. (2023). Separation of Naproxen from Aqueous Solutions Using the Cloud Point Extraction Method, *1st International Conference on Research in Agriculture and Environment*.

- Abdi, S., Nasiri, M. (2022). Separation of Gold from Aqueous Solutions Using Micellar-Enhanced Ultrafiltration Process, *8th International Conference on Chemical and Petroleum Engineering*.
- Abdi, S., Mohit Sekeravani, H.R., Nasiri, M. (2022). Review on the types of functionalized adsorbents for the adsorption of heavy metals and adsorbent classification, *8th International Conference on Chemical and Petroleum Engineering*.
- Mohit Sekeravani, H.R., Nasiri, M. (2022). Review on the graphene oxide synthesis methods and their comparison, *8th International Conference on Chemical and Petroleum Engineering*.
- Shojaei, S., Nasiri, M. (2022). Review on the effect of surfactants on the enhanced oil recovery in the porous media, *8th International Conference on Chemical and Petroleum Engineering*.
- Bahoo, S., Nasiri, M., Keramati, N. (2021). Optimization of clinoptilolite modification with sodium hydroxide for selective adsorption of lead from solution, *2nd International Conference on Nanotechnology & Nanoscience*.
- Amini Jahromi, S., Nasiri, M. (2021). A review on the application of polymeric micelles as carriers in drug delivery systems, *2nd International Conference on Nanotechnology & Nanoscience*.
- Bahoo, S., Nasiri, M., Keramati, N. (2020). Investigating the conventional methods of chemical modification of zeolite adsorbents with the aim of selective removal of heavy metals, *7th National Conference on Applied Research in Chemistry and Chemical Engineering with an Emphasis on Indigenous Technology in Iran*.
- Yarahmadi, A., Nasiri, M., Khani, M.H. (2020). Investigation of the adsorption of cerium and lanthanum from aqueous solutions using Dowex50wx-8 ion exchange resin, *3rd International Conference on Technology Development in Oil, Gas, Refining and Petrochemicals*.
- Yarahmadi, A., Nasiri, M., Khani, M.H., Yadollahi, A. (2020). Investigation of the adsorption process of cerium and lanthanum from aqueous solutions using Amberlite Xad-7 ion exchange resin, *3rd International Conference on Technology Development in Oil, Gas, Refining and Petrochemicals*.

- Jokar, M., Nasiri, M., Shahsavani, B., Rizai, M. (2020). Investigation of parameters affecting zeta potential, *3rd International Biennial Conference on Oil, Gas, and Petrochemical Engineering (OGPC2020)*.
- Abdi, S., Nasiri, M. (2020). Mesoscopic simulation of DTAB surfactant in the aqueous solution using dissipative particle dynamics method, *6th International Conference on Chemical and Petroleum Engineering*.
- Abhari, P., Nasiri, M. (2019). Investigation of the Electrolyte Effect on Lead Removal from Wastewaters by Using Micellar-Enhanced Ultrafiltration Process, *26th Iranian Conference of Analytical Chemistry*.
- Ghasemi, Z., Nasiri, M. (2019). Investigation the Effect of Different Carriers and Contact Time on Arsenic Removal by Emulsion Liquid Membrane, *26th Iranian Conference of Analytical Chemistry*.
- Abdi, S., Nasiri, M., Rahmati, M. (2018). Molecular dynamics simulation of the penetration of water molecules through polyethersulfone/polyvinylpyrrolidone membranes, *5th International Conference on Applied Research in Chemistry and Chemical Engineering Focusing on Local Technologies*.
- Abhari, P., Abdi, S., Nasiri, M. (2018). Review on the parameters affecting the micellar-enhanced ultrafiltration process in the removal of heavy metals and organic pollutants, *2nd International Conference on Modern Technologies in Sciences*.
- Panouran, T., Nasiri, M. (2018). The effect of different electrolytes on the micelle formation mechanism of sodium dodecyl sulfate (SDS) and hexadecyl trimethyl ammonium bromide (CTAB) surfactants and calculation of their surface parameters, *2nd National Conference of Major Infrastructure of Electrical Engineering, Energy and Nanotechnology*.
- Nayerabadi, A., Nasiri, M. (2018). The kinetic study of Lead Ions removal in the MEUF process, *International Congress of Chemistry and Nanochemicals from Research to Technology*.
- Shamsodin, M., Fazli, M., Nasiri, M. (2017). Removing Paraquat Herbicide from Aqueous Solutions on TEOS Nano-Porous Xerogel using Experimental Design, *4th National Conference on New Researches in Chemistry and Chemical Engineering*.

- Mehraban, M. F., Afzali, S., Ahmadi, Z., Mokhtari, R., Ayatollahi, S., Sharifi, M., Kazemi, A., Nasiri, M., Fathollahi, S. (2017). SmartWater flooding in a carbonate asphaltenic fractured oil reservoir-comprehensive fluid-fluid-rock mechanistic study. In *IOR 2017-19th European Symposium on Improved Oil Recovery* (Vol. 2017, No. 1, pp. 1-15). European Association of Geoscientists & Engineers.
- Abdi, S., Azhdari, R., Nasiri, M. (2017). Investigation of the effect of addition of aluminum fumarate nanoparticles with metal-organic framework on the properties of polyethersulfone ultrafiltration membranes, *5th International Conference on Chemistry, Chemical Engineering & Nanotechnology*.
- Abdi, S., Nasiri, M. (2017). Recycle and Reuse of Discarded Reverse Osmosis Membrane, *3rd International Conference on Research in Chemistry and Chemical Engineering*.
- Sadeghi, N., Nasiri, M., Masihi, M., Ganjeh Ghazvini, M. (2016). The effect of heterogeneity in the simulation of enhanced oil recovery processes using dynamic networks in the realization of percolation, *3rd International Conference on Oil, Gas, Refining & Petrochemical With Focus Relationship Between Government, University and Industry*.
- Pashaei, H., Nasiri, M., Ghaemi, A. (2016). Investigating the causes of gas hydrate formation and ways to prevent it in gas condensate pipelines, *3rd International Conference on New Research Achievements in Chemistry and Chemical Engineering*.
- Pashaei, H., Nasiri, M., Ghaemi, A. (2016). Application of iron, alumina and magnesium nano oxides in the removal of heavy metals from industrial effluents, *4th National Conference on Nanotechnology from Theory to Application*.
- Pashaei, H., Nasiri, M., Ghaemi, A. (2016). Review on the effect of nanoparticles in amine solutions on the carbon dioxide absorption, *4th National Conference on Nanotechnology from Theory to Application*.
- Nasiri, M., Soltani, A.H. (2016). Separation of Lead ions from wastewater by emulsion liquid membrane, *3rd International Conference on Recent Innovations in Chemistry and Chemical Engineering*.
- Mesbahi, A., Nasiri, M., Khani, M.H. (2015). Preparation of polypyrrole using different surfactants and study of its performance, *15th Iranian National Congress of Chemical Engineering*.

- Nasiri, M., Abdi, S. (2015). Surface tension prediction for pure fluids, *4th Technical Conference of Thermodynamics*.
- Nasiri, M., Ghazvehi, M. (2015). Investigation the effect of ultrasonic waves on the increasing efficiency in the oil extraction, *15th Iranian National Congress of Chemical Engineering*.
- Nasiri, M., Beyranvand, F. (2015). Removal of copper and zinc ions from wastewater by MEUF process, *15th Iranian National Congress of Chemical Engineering*.
- Sadeghi, N., Nasiri, M., Masihi, M., Ganjeh Ghazvini, M. (2015). Dynamic local grid refinement to describe front tracking, *1st International Conference on Oil, Gas and Petrochemical Industries with Focus on Sustainable Development (Relationship between University and Industry)*.
- Nasiri, M., Firoozpour, K. (2015). Phase behavior prediction of pure materials by PR and SAFT equations of state, *15th Iranian National Congress of Chemical Engineering*.
- Abdi, S., Nasiri, M., Khani, M.H. (2015). Optimization of the thorium adsorption parameters using polyaniline nanocomposite, *International Conference on Science, Engineering and Environmental Technologies*.
- Karambeigi, M.S., Haghighi Asl, A., Nasiri, M., Emadi, M.A. (2015). Modelling of Microemulsion Flooding Using Artificial Neural Networks, *9th International Chemical Engineering Congress & Exhibition (IChEC 2015)*.
- Karambeigi, M.S., Haghighi Asl, A., Nasiri, M., Emadi, M.A. (2015), Effect of Different Parameters on the Stability of Nanoemulsions Prepared for Chemical Enhance Oil Recovery, *9th International Chemical Engineering Congress & Exhibition (IChEC 2015)*.
- Karambeigi, M.S., Haghighi Asl, A., Nasiri, M. (2014). Statistical modeling of chemical enhanced oil recovery process using response surface methodology, *2nd National Iranian Conference on Petroleum and Gas*.
- Noori Motlagh, R., Nasiri, M., Abbasi, S., Shahrabadi, A. (2014). Experimental study the effect of salinity of injected water on oil recovery in the spontaneous imbibition process of carbonated reservoirs, *2nd International Conference of Oil, Gas and Petrochemical*.

- Abbaszadeh, M., Riazi, M., Nasiri, M. (2014). Investigation the effect of dissolution on the porosity and permeability of the carbonate rocks in the presence of carbonated water at high pressure, *2nd Iranian National Conference on Petroleum and Gas*.
- Abdi, S., Nasiri, M., Khani, M.H. (2014). Investigation of the adsorption and separation of thorium from aqueous solution using polyaniline, *2nd National Conference on Environmental Research*.
- Abdi, S., Nasiri, M., Naghashi, V. (2014). Review on cadmium removal from aqueous solutions by adsorption process, *2nd National Conference on Environmental Research*.
- Ravash, H., Nasiri, M. (2014). Effects of flow rate and concentration changes in imbibition displacement of heterogeneous water-wet glass micromodel, *2nd International of Oil, Gas and Petrochemical*.
- Karambeigi, M.S., Nasiri, M., Haghighi Asl, A. (2014). Compatibility of oilfield chemicals with surfactant systems, *Chemical Engineering Congress and Exhibition*.
- Ghazvehi, M., Nasiri, M. (2014). Improving the yield of soybean oil extraction process by using of microwave system, *Chemical Engineering Congress and Exhibition*.
- Nasiri, M., Zarei, Gh., Maleki, A., Heydari, A. (2014). Efficient synthesis of the microporous titanosilicates ETS-10, *Chemical Engineering Congress and Exhibition*.
- Parizad, K., Nasiri, M., Shahrabadi, A. (2013). Effects of Asphaltene Deposition on Porous Media properties Under Natural Depletion Conditions, *2nd National Conference on Oil, Gas and Petrochemicals*.
- Chavooshi, E., Nasiri, M., Eisazadeh, H. (2012). Comparison between characteristics of HPC/Polyaniline nanocomposite in aqueous and aqueous/non-aqueous media, *4th International Conference on Nanostructures (ICNS4), Kish Island, Iran*.
- Chavooshi, E., Eisazadeh, H., Nasiri, M. (2012). Effect of stabilizer on morphology of polyaniline nanocomposites prepared in aqueous/non-aqueous media, *20th International Congress of Chemical and Process Engineering CHISA, Prague*.
- Chavooshi, E., Nasiri, M., Eisazadeh, H. (2012). Synthesis of polyaniline nanocomposites by using PVA as surfactant in aqueous and aqueous/non-aqueous media, *20th International Congress of Chemical and Process Engineering CHISA, Prague*.

- Amini, M., Nasiri, M., Tabatabaei Nezhad, A. (2012). Experimental study of the asphaltene precipitation formed during residence time due to CO₂ gas injection at static condition, *20th International Congress of Chemical and Process Engineering CHISA, Prague*.
- Qasemi, M., Nasiri, M., Khani, M.H., Ghaemi, A. (2012). The effect of using alternative distributor on bubbles diameter in fluidized bed reactors, *20th International Congress of Chemical and Process Engineering CHISA, Prague*.
- Balideh, B., Haghighi Asl, A., Nasiri, M. (2011). Investigation of membrane fouling in the MF processes, *1st National Conference on Membrane and Membrane Processes*.
- Khosravi Fard, S., Nasiri, M. (2011). Investigation of kaolin particle size on permeate flux in ceramic MF membranes, *1st National Conference on Membrane and Membrane Processes*.
- Chavooshi, E., Nasiri, M., Eisazadeh, H. (2011). Preparation of Polyaniline Nanocomposites using sodium dodecylbenzene sulfonate as stabilizer in presense of silver oxide (Ag₂O) in aqueous/non-aqueous media, *7th National Congress of Chemical Engineering*.
- Chavooshi, E., Eisazadeh, H., Nasiri, M. (2011). Effect of surfactant concentration on the characteristics of Polyaniline nanocomposite prepared in aqueous media, *7th National Congress of Chemical Engineering*.
- Mirarab Razi, M., Nasiri, M., Sharifi, S. M., Mirarab Razi, F., Ashrafizadeh, S. N., Behzadi, B. (2011). Investigation of degradability and environmental issues of disposal of synthetic base mud into the sea in drilling oil and gas wells, *2nd National Conference: Effluent and waste Management in the Oil and Energy Industries*.
- Ghalambor, A., Ashrafizadeh, S. N., & Nasiri, M. (2008). Effect of basic parameters on viscosity in synthetic-based drilling fluids, *International Symposium and Exhibition on Formation Damage Control, SPE, Louisiana, USA*.
- Nasiri, M., Ashrafizadeh, S. N. (2008). Interaction of Components to Build Viscosity in Synthetic-Based Drilling Fluids, *5th International Chemical Engineering Congress, Kish Island, Iran*.
- Nasiri, M., Ashrafizadeh, S. N. (2008). A new model to predict the yield stress and shear stress in drilling fluids as hybrid of the Bingham Plastic model and the Power Law model, *18th International Congress of Chemical and Process Engineering, CHISA 2008, Prague, Czech Republic*.

- Ashrafizadeh, S. N., Reza, B., Nasiri, M. (2008). An Empirical Model for the Prediction of Liquid-Liquid Extraction of Water Toluene-Acetone System in the Presence of Contaminants, *18th International Congress of Chemical and Process Engineering, CHISA 2008, Prague, Czech Republic*.
- Nasiri, M., Ashrafizadeh, S. N. (2007). Mathematical Model of Biodegradation of Synthetic-Based Drilling Mud in Aqueous Media, *5th National Biotechnology Congress of Iran*.
- Nasiri, M., Ashrafizadeh, S. N. (2006). An Investigation on the Synthetic-Based Drilling Muds, *1st Iranian Petroleum Engineering Congress*.
- Nasiri, M., Ashrafizadeh, S. N. (2006). An overview of the synthetic drilling mud, a suitable alternative to water-based and oil-based drilling mud, *1st Iranian Petroleum Engineering Congress*.
- Nasiri, M., Ashrafizadeh, S. N. (2005). Environmental Aspects of Drilling Fluids Employed in Oil & Gas Industries, *2nd International Congress of Chemistry and Environment, Indore, India*.