رزومه

رضا قمرپور
هیات علمی گروه مهندسی نفت و شیمی دانشگاه گرمسار
ایمیل : rezaghamarpoor@fmgarmsar.ac.ir

Google Scholar: https://scholar.google.com/citations?user=9Mn1ilkAAAAJ&hl=fa&oi=ao

Scopus: https://www.scopus.com/authid/detail.uri?authorId=57208151465

سوابق تحصیلی

پسادکتری -مهندسی شیمی [1402] الی [1403]
- موضوع: طراحی پوشش های هوشمند برای جلوگیری از خوردگی فلزات

دکتری -مهندسی شیمی [1396] الی [1401]
- موضوع پایان نامه: جذب لکه های نفتی خلیج فارس با استفاده از فوم ساخته شده از لاستیک تایر

کارشناسی ارشد -مهندسی نفت-حفاری [1394] الی [1396]
- موضوع پایان نامه: ساخت سیال حفاری پایه آبی برای سازندهای شیلی

کارشناسی -مهندسی نفت-بهره برداری [1389] الی [1392]

سوابق کاری و اجرایی

کارشناس اعتبار مالیاتی [1402] - [تاکنون]
- اعتبار سنجی و بررسی طرح های ارسالی برای دریافت بودجه

مدیر آزمایشگاه کامپوزیت – دانشگاه علم و صنعت [1398] الی [1400]
- بررسی و تهیه نانوکامپوزیت ها- مدیریت دانشجویان و شرکت های ورودی به دانشگاه

کارشناس تحقیق و توسعه – مرکز تحقیقات لاستیک [1398] الی [شش ماه]
- فرموله کردن لاستیک های بارز-تهران

سوابق تدریس

- دانشگاه گرمسار – گروه مهندسی نفت و شیمی از 1402- تاکنون
- دانشگاه آزاد تهران جنوب – گروه مهندسی نفت سال 1401 تا 1402
- دانشگاه آزاد واحد شهریار – گروه مهندسی نفت سال 1396 تا 1402
- دانشگاه آزاد واحد مسجد سلیمان – گروه مهندسی نفت سال 1398 تا 1399

پروژه های صنعتی-تحقیقاتی

پروژه های در حال اجرا:

پروژه های انجام شده:

پروژه ملی:

- ساخت قطعات باکلیت کنتور گاز دیافراگمی شرکت ملی گاز ایران(NIGC)
- ارتقای کیفیت دیافراگم های مورد استفاده در کنتورهای گاز، شرکت ملی گاز ایران(NIGC)

پروژه آزمایشگاهی:

- سنتز فوتوکاتالیست نیترید کربن گرافیت
- سنتز گرافن از گرافیت
- طراحی رنگهای فتوکاتالیستی جهت حذف آلودگی هوا
- ساخت سیمان تقویت شده پشت پوشش با نانوذرات اصلاح شده
- سنتز نانوذرات سیلیکا بر پایه وینیل
- سنتز عامل جفت کننده جدید
- سنتز نانوذرات اکسید سریم
- اصلاح سطح MMT با VTMS
- افزایش آبگریزی و چربی دوستی لاستیک نیتریل زدایی شده (NBR) به منظور افزایش قابلیت جذب روغن آنسنتز نانو ذرات سیلیس مبتنی بر اپوکسی و استفاده از آنها برای کامپوزیت های بتن مسلح
- بازیافت لاستیک زباله با یک عامل شیمیایی جدید
- ساخت فوم های فوق آبگریز/سوپرولوفیلیک برای جداسازی روغن از آب
- تهیه نانوذرات ZnO بر پایه GPTMS و قابلیت استفاده از آن در رنگ های صنعتی
- ساخت کامپوزیت های NBR با فیبر کربن اصلاح شده برای سوخت مخزن هواپیما
- تهیه فیلم کششی

پروژه های دانشگاهی- دانشجویی

- استاد راهنمای پروژه کارشناسی (30 مورد)
- استاد راهنمای پروژه کارشناسی ارشد (2 مورد)
- استاد مشاور پروژه کارشناسی ارشد (10 مورد)
- استاد راهنمای پروژه دکتری (1 مورد)

مقالات ISI

چاپ شده:

- **Ghamarpoor, R**., Fallah, A., Fard, N. E., & Salehfekr, S. (2026). Plasma-Assisted Green Synthesis of SrTiO3/MoS2/MWCNTs Nanohybrids for Photocatalytic Degradation of Phenazopyridine in Aqueous and Smart Polymeric Film Systems. Advanced Industrial and Engineering Polymer Research.
- **Ghamarpoor, R**., & Ramezanzadeh, B. (2026). Epoxy coatings reinforced with V2C-MXene nano-reservoirs decorated by horned BZIF structures for advanced self-healing and corrosion protection. Progress in Organic Coatings, 211, 109821.
- Fallah, A., Fard, N. E., & **Ghamarpoor, R**. (2026). A Review of MXene/Polymer-Based Inks for 3D Printing of Electrochemical Energy Storage Devices. Surfaces and Interfaces, 108365.
- Hosseini, S., Akbari, M., & **Ghamarpoor, R**. (2025). A Review of Chemical Methods for Wettability Alteration in Reservoir Rocks. Journal of Industrial Safety.

- Ahmadi, B., Fallah, A., **Ghamarpoor, R**., & Jamshidi, M. (2025). Methylene blue beyond the dye: A critical review on its role as a benchmark pollutant in photocatalyst design. Results in Chemistry, 102910.
- **Ghamarpoor, R**., & Ramezanzadeh, B. (2025). A Multifunctional Hybrid MXene/ZIF/Semiconductor-Based Coating for Photocatalytic Degradation and Long-Term Marine Corrosion Protection. Advanced Industrial and Engineering Polymer Research.
- **Ghamarpoor, R**., Fallah, A., Fard, N. E., Salehfekr, S., Hossieini, S., & Moradi, V. (2025). Multifunctional Nanocomposite of TiO2-Decorated on Graphitic Carbon Derived from ZIF-12: Towards Enhanced Photocatalytic Degradation and Supercapacitor Performance. Surfaces and Interfaces, 107846.
- Daei, R., Jamshidi, M., & **Ghamarpoor, R**. (2025). Silanized hierarchical TiO2/g-C3N4 heterojunctions for multifunctional acrylic coatings: Enhanced photocatalytic activity, mechanical reinforcement, and self-cleaning performance. Progress in Organic Coatings, 209, 109644.
- **Ghamarpoor, R**., Jamshidi, M., & Joshaghani, M. (2025). Hydrophobic silanes-modified nano-SiO_2 reinforced polyurethane nanocoatings with superior scratch resistance, gloss retention, and metal adhesion. Scientific Reports, 15(1), 31555.

• H Hematpur, S Hosseini, S.M Mahmood, R Abdollahi, Z Hamdi, **Reza Ghamarpoor**, "A new approach to foam flooding modelling with novel parameter Estimation techniques", Scientific Reports, 2025.

• Mohammad Ramezanzadeh, **Reza Ghamarpoor**, Ali Dashan, Akram Fallah, Soolmaz Soleimani, Bahram Rameznzadeh, "2D-Transition Metal Borides (MBenes): A Comprehensive Review of the Materials, Chemistry, Advances, and Novel Applications" Advanced Composites and Hybrid Materials, 2025.

• **Reza Ghamarpoor**, Masoud Jamshidi, Danial Mostafapour Kandelousi, "Electromagnetic Interference (EMI) Shielding, Electrical, Thermal, and Mechanical Properties of Silanized Hexagonal Boron Nitride (h-BN) Heterostructures and Decorated by Ag Nanoparticles: Towards Smart Coatings" Journal of Alloys and Compounds, 2025.

• **Reza Ghamarpoor**, Masoud Jamshidi, Koosha Zojaji, "Surface treating and hybridizing short carbon fibers: toward reinforcement of cementitious composites" *Structural Concrete*, 2025.

• **Reza Ghamarpoor**, Masoud Jamshidi, Akram Fallah, Milad Neshastehgar, "Designing a smart acrylic photocatalyst coating loaded with N/C-doped TiO_2@ SiO_2 core-shell by bio-based Tarem-rice husk waste for organic pollutant degradation" *Alexandria Engineering Journal*, 2025.

• Milad Neshastehgar, Masoud Jamshidi, **Reza Ghamarpoor**, "Self-assembly TiO_2@ Silane@SiO_2 core-shell as s-scheme heterojunction photocatalyst against methylene blue degradation: synthesis and mechanism insights" *Journal of Molecular Structure*, 2025.

• Fatemeh Ghasemi, Masoud Jamshidi, **Reza Ghamarpoor**, "Preparation of a rubber nanocomposite for oil/water separation using surface functionalized/silanized carbon black nanoparticles" *Water Resources and Industry*, 2024.

• Elias Ghaleh Golab, **Reza Ghamarpoor**, Fereshteh Jafari Kondori, Seyednooroldin Hosseini, Hasan N Al-Saedi, "Synthesis of hydrophobic polymeric surfactant (Polyacrylamide/Zwitterionic) and its effect on enhanced oil recovery (EOR)" *Chemical Physics Impact*, 2024.

• Maysam Janadeleh, **Reza Ghamarpoor**, Nabeel Kadhim Abbood, Seyednooroldin Hosseini, Hasan N Al-Saedi, Ali Zeinolabedini Hezave, "Evaluation and selection of the best artificial lift method for optimal production using pipesim software" *Heliyon*, 2024.

• Layal Fadhil AL-Kaaby, Sina Rashidi, **Reza Ghamarpoor**, Seyednooroldin Hosseini, Hasan N Al-Saedi, Elias Ghaleh Golab, "Determining the geomechanical units using rock physics methods" *Petroleum Research*, 2024.

• **Reza Ghamarpoor,** Akram Fallah**,** M Jamshidi, "A Review of Synthesis Methods, Modifications, and Mechanisms of ZnO/TiO_2-Based Photocatalysts for Photodegradation of Contaminants" *ACS OMEGA*, 2024.

• M Mansouri Zadeh, F Amiri, S Hosseni, **Reza Ghamarpoor**, "Synthesis of colloidal silica nanofluid and assessment of its impact on interfacial tension (IFT) and wettability for enhanced oil recovery (EOR)", *Scientific Reports*, 2024.

• **Reza Ghamarpoor**, A Fallah, T Eghbali, "Design of Bifunctional Sandwich-like Co@Si/Ox-MXene Nanocomposite to Increase the Supercapacitor Properties and Removal of Pollutants from Wastewater" *Journal of Alloys and Compounds*, 2024.

• S Sharifi, J Javadpour, H Rezaie, M Jamshidi, **Reza Ghamarpoor**, "Developing a deposited calcium-phosphate layer on zirconia surface by chemical grafting of L-Serine molecules", *Journal of Materials Research and Technology*, 2024.

• **Reza Ghamarpoor**, M Jamshidi, ZAK Alhaeehm, "Synthesis of Hybrid/Superhydrophobic Coupling Agent Grafted Nano SiO2 and Its Use in Fabrication of Rubber Nanocomposite with Outstanding Oil/Water Separation Capability", *Results in Engineering*, 2024.

• K Baghitabar, M Jamshidi, **Reza Ghamarpoor**, "Exfoliation, hydroxylation and silanization of two-dimensional (2D) montmorillonites (MMTs) and evaluation of the effects on tire rubber properties", *Polymer Testing*, 2023.

• **Reza Ghamarpoor,** Akram Fallah**,** M Jamshidi, "Using waste silver metal in synthesis of Z-scheme Ag@WO_3-CeO_2 heterojunction to increase photodegradation and electrochemical performances" *Journal of Industrial and Engineering Chemistry*, 2023.

• N moradi, M Jamshidi, **Reza Ghamarpoor,** MR Moghbeli "Surface Functionalization and Silane Modification of CeO_2 Nanoparticles and Their Influences on Photocatalytic Activity Acrylic Films for Methylene Blue Removal" *Progress in Organic Coatings*, 2023.

• Reza Ghamarpoor, M Jamshidi, Akram Fallah**,** "Preparation of Dual-use GPTES@ZnO Photocatalyst from Waste Warm Filter Cake and Evaluation of its Synergic Photocatalytic Degradation for Air-Water Purification" *Journal of Environmental Management*, 2023.

• Reza Ghamarpoor, Akram Fallah**,** M Jamshidi, "Investigating the use of Titanium Dioxide (TiO_2) nanoparticles on the amount of protection against UV irradiation" *Scientific Reports*, 2023.

• **Reza Ghamarpoor,** M Jamshidi, F Eftekharipour, "Photocatalytic degradation of gaseous benzene using ZnO/BTPA nanocomposites " *Alexandria Engineering Journal*, 2023.

• **Reza Ghamarpoor**, M Jamshidi, "Synergistic Effect of Microwave Assisted Devulcanization of Waste NBR Rubber and Using Superhydrophobic/Superoleophilic Silica Nanoparticles on Oil-Water Separation " *Alexandria Engineering Journal*, 2023.

• B Biukafshari, M Jamshidi, M Rostami**, Reza Ghamarpoor, "**Improving Mechanical/Anticorrosive Properties of Nitrile Rubber Based Adhesive filled with two-step surface modification method of cerium oxide nanoparticles**"** *ACS Omega*, 2022.

• M Sayyadian, M Jamshidi, **Reza Ghamarpoor**, M Razavizadeh "Silanization of Functionalized PET Fabric to Improve PET-Nitrile Rubber (NBR) Adhesion; Effects of Functionalization Type and Silane Concentration" Arabian Journal of Chemistry, 2023.

• **Reza Ghamarpoor**, Masoud Jamshidi, Mohammad Sayyadian, Mahmoud Razavizadeh "Chemical/photochemical functionalization of polyethylene terephthalate fabric: Effects on mechanical properties and bonding to nitrile rubber" Scientific Reports, 2023.

• **Reza Ghamarpoor**, M Jamshidi, M Mohammadpour, "Achieving outstanding mechanical/bonding performances by epoxy nanocomposite as concrete–steel rebar adhesive using silane modification of nano SiO_2" *Scientific Reports*, 2023.

- **Reza Ghamarpoor,** M Jamshidi, "Preparation of Superhydrophobic/Superoleophilic nitrile rubber (NBR) nanocomposites contained silanized nano silica for efficient oil/water separation" *Separation and Purification Technology*, (2022).
- **Reza Ghamarpoor,** M Jamshidi, "Silanizing Nano SiO_2 and its Application in Recycled Nitrile Rubber to Preparesuper Oil Resistant/Superhydrophobic/Superoleophilic Oil/Water Separator" *Journal of Environmental Chemical Engineering*, (2022).
- **Reza Ghamarpoor,** M Jamshidi, "Synthesis of vinyl-based silica nanoparticles by sol–gel method and their influences on network microstructure and dynamic mechanical properties of nitrile rubber nanocomposites" *Scientific Reports*, (2022).

- **Reza Ghamarpoor**, Arash E A., “Optimum Design of Water-based Drilling Fluid in Shale Formations in Khangiran Oilfields”. *Progress in Industrial Ecology, An International Journal*,
(2018),(ISI)
- **Reza Ghamarpoor**, A Rezaei Ghaleh Roodkhani, E Golinia, L saeedi., “Analysis of Using Titanium Dioxide Nanoparticles on the Amount of Protection Against Ultraviolet Radiation in Cosmetic and Sanitary Formulations”. *International Congress and Exhibition of Sciences and Innovative Technologies* (2018),(ISC)
- **Reza Ghamarpoor,** Mohammad S Gh., “An approach to Design of a Water-based Drilling Fluid in Shale Formations”. *International Congress and Exhibition of Sciences and Innovative Technologies* (2018),(ISC)
- Mohammad S Gh, **Reza Ghamarpoor.,** Feasibility EOR processes vapex
On increasing the amount of recycling in case of one of the heavy oil reservoirs., *the third international conference on oil, gas, petrochemical and HSE,* (2018) (in persian)
- **Reza Ghamarpoor**, Amir M, Ghobad Gh, Mohammad S Gh,.”Intelligent appraisal wells and the possibility of comlete mixed wells in an offshore oil field” *International Conference on Chemistry and Chemical Engineering*, (2016)(in persian)
- **Reza Ghamarpoor**, Mohammad S Gh,”Designing and making a water based and enviromental friendly drilling fluid for replacing with oil based drilling fluids used in drilling compositions sensitive to water”, *International Conference on Management and Environment,* (2013)(in persian)
- **Reza Ghamarpoor**, ”Well Test Analysis horizontal wells” ,*Oil Conference and Exhibition*, (2013)(in persian)
- **Reza Ghamarpoor**, “A case study of a severe drop in profit In carbonate reservoirs, a condensate gas in the crude reservoir of the Maroun Square” , *First National Conference on Chemistry and Chemical Engineering* , (2013)(in persian)

کتاب ها

در حال چاپ:

• Bahram Ahmadi, Fatemeh Alahvirdi, Leila Fallah Kelishomi, Akram Fallah, Mojtaba Hosseinifard, **Reza Ghamarpoor**, Masoud Jamshidi, “Self-assembly and Core-Shell structure Formation by Hybrid Nano Fillers” *Elsevier*, 2025.
• **Reza Ghamarpoor**, Narges Elmi Fard, Akram Fallah, Bahram Ramezanzadeh, Masoud Jamshidi, “3D-Printing of Rubbers” *Elsevier*, 2025.
• **Reza Ghamarpoor**, Eiman Alibakhshi, Akram Fallah, Bahram Ramezanzadeh, “Advanced Synthesis Techniques of MXenes for Supercapacitors” *Elsevier*, 2025.

چاپ شده:

• **Reza Ghamarpoor**, Akram Fallah, Shadi Montazeri, Bahram Rameznzadeh, “Polyurethane Nanocomposite Foams for Thermal Insulations” *Elsevier*, 2025.
• **Reza Ghamarpoor**, Javad Ramezanpour, Akram Fallah, Hossain Yari, Bahram Ramezanzadeh, “Strategies for Improving Aging and Degradation Resistance in Polymer Nanocomposites” *Elsevier*, 2025.

- **Reza Ghamarpoor**, Arash E A,Optimum Design of Water-based Drilling Fluid in Shale Formations in Khangiran Oilfields, *cambridge scholars Publishing*, Chapter One, page 64-89, 2018.

افتخارات و جوایز:

- پژوهشگر برتر استان سمنان در سال 1403
- گواهینامه: شرکت در جلسه آماده سازی دومین دوره مسابقات ملی فناوری نانو در سال 2022
- گواهی: برگزیده پروژه منتخب در Elsevier در هلند به عنوان "شیمی سبز" در سال 2021
- رتبه 2 در بین ورودی های دکتری، دانشکده مهندسی شیمی، نفت و گاز دانشگاه علم و صنعت
- برنده مسابقات ReTechs Cup 2021 پارک علم و فناوری پردیس و بنیاد ملی نخبگان
- دریافت کمک هزینه تحقیقاتی از صندوق حمایت از پژوهشگران و فناوران ایران در سال ۱۳۹۹
- ادیتور مجله Micromaterials and Interfaces
- داوری مجلات معتبر ISI به شرح زیر:

1-Ain Shams Engineering Journal, 2-Alexandria Engineering Journal, 3-Applied thermal engineering, 4-Arabian Journal of chemistry, 5-Biomass conversion and biorefinery, 6-Case studies in chemical and environmental engineering, 7-Chemical engineering journal, 8-ChemistrySelect, 9-Fuel, 10-Heliyon, 11-Journal of environmental management, 12-Journal of Materials Research and Technology, 13-Journal of molecular liquids, 14-Journal of molecular structure, 15-Journal of photochemistry and photobiology, 16-Journal of water process engineering, 17-Materials today chemistry, 18-Progress in organic coatings, 19-Results in chemistry, 20-Results in engineering, 21-Surface & coatings technology, 22-Surfaces and interfaces

علایق پژوهشی:

- سنتز مواد پیشرفته (MXene, MBene و غیره)
- جداسازی روغن/آب
- بازیافت
- اصلاح سطح
- نانوکامپوزیت ها
- ازدیاد برداشت نفت

مهارتها

مهارتهای نرم افزاری

- Microsoft Office: Excel, Word, PowerPoint, Eclipse 100, Drilling office

آشنایی با زبانهای خارجی

- انگلیسی - عالی

- تسلط بر آنالیزهای ساختاری شامل FT-IR، XPS، DSC، DMA، MDR، RPA، TGA، DLS، XRD، SEM، TEM، ICP، BET، Uv-Vis.