باسمه تعالی



رزومه علمی - رضا محمدی

دانشیار دانشکده شیمی دانشگاه تبریز

گروه آموزشی شیمی آلی و بیوشیمی

وضعیت تاهل: **متاهل**

وضعیت اشتغال: **عضو هیات علمی رسمی تمام وقت دانشگاه تبریز- دانشیار پایه ۱۵**

محل سکونت: **تبریز- انتهای خیابان جام جم- کوی استادان- بلوک ۳ واحد ۲۰۴**

شماره تلفن همراه: **۰۹۱۴۳۰۸۳۳۸۳**

شماره تلفن محل کار: **۰۴۱۳۳۳۹۳۱۱۹**

پست الکترونیکی: r.mohammadi@tabrizu.ac.ir

rezamohammadi78@yahoo.com

۱- سوابق تحصیلی

مقطع تحصیلی	رشته	دانشگاه محل تحصیل	کشور محل تحصیل	تاریخ شروع	تاریخ پایان
کارشناسی	شیمی محض	دانشگاه سراسری تبریز	ایران	۱۳۷۸	۱۳۸۲
کارشناسی ارشد	شیمی آلی (پلیمر)	دانشگاه سراسری تبریز	ایران	۱۳۸۳	۱۳۸۵
دکتری	شیمی-نانوشیمی (نانوفناوری پلیمرها)	دانشگاه صنعتی دورتموند	آلمان	۱۳۸۹	۱۳۹۳
محقق پسا دکتری	نانوفناوری پلیمرها	دانشگاه مالمو	سوئد	۱۳۹۳	دو ماه

۲- آدرس وب سایت در سامانه های علمی:

University of Tabriz: https://faculty.tabrizu.ac.ir/r-mohammadi/fa

Google Schoolar: https://scholar.google.com/citations?user=NaakEo8AAAAJ&hl=en

Scopus: https://www.scopus.com/authid/detail.uri?authorId=57191098168

Web of Science: https://www.webofscience.com/wos/author/record/K-7896-2018

ORCID: https://orcid.org/0000-0002-2815-8120

ISC: https://dana.isc.ac/fa/profile/3534629

Research Gate: https://www.researchgate.net/profile/Reza-Mohammadi-35

۳- سوابق کارهای علمی و تحقیقاتی

ردیف	نوع فعالیت علمی و تحقیقاتی
۱	چاپ ۱۰۸ مقاله ISI در مجلات معتبر بین المللی و حدود ۱۵ مقاله علمی در دست چاپ
۲	شرکت در کنفرانس های علمی در کشور ایران، آلمان، فرانسه و ارائه حدود ۲۵ مقاله بصورت سخنرانی و پوستر
۳	تدریس در مقاطع کارشناسی، کارشناسی ارشد و دکتری در دانشکده شیمی دانشگاه تبریز از دی ماه سال ۱۳۹۳
۴	راهنمایی و مشاوره پایاننامه ۵۰ نفر از دانشجویان مقاطع کارشناسی ارشد در رشته های شیمی آلی، نانوشیمی، و مهندسی پلیمر از مهر ماه سال ۱۳۹۴
۵	راهنمایی و مشاوره رساله ۲۰ نفر از دانشجویان مقطع دکتری تخصصی از مهر ماه سال ۱۳۹۵
۶	مجری و همکاری در ۸ پروژه تحقیقاتی و نیمه صنعتی از مهر ماه سال ۱۳۹۴

۳- افتخارات علمی

ردیف	رتبه و جایزه علمی
۱	کسب رتبه یازدهم فارغ التحصیلی دوره کارشناسی (در بین ۷۰ نفر با ورودی مشترک) در دانشکده شیمی دانشگاه تبریز- سال ۱۳۸۲
۲	کسب رتبه دوم فارغ التحصیلی دوره کارشناسی ارشد (در بین ۴۲ نفر با ورودی مشترک) در دانشکده شیمی دانشگاه تبریز- سال ۱۳۸۵
۳	عضو اداره استعدادهای درخشان دانشگاه تبریز ۱۳۸۵-۱۳۸۳
۴	کسب رتبه سوم تیمی در قسمت تحقیقات بنیادی بیستمین جشنواره بین المللی خوارزمی با موضوع سنتز کاتالیزورهای متالوسن و استفاده از آنها برای تهیه پلی اتیلن و پلی استایرن سندیوتاکتیک سال ۱۳۸۵
۵	کسب رتبه اول ممتاز تحصیلی در ششمین جشنواره ممتازین و مبتکرین بسیجی کشور-سال ۱۳۸۶
۶	اخذ بورس تحصیلی مقطع دکتری بعنوان دانشجوی ممتاز از وزارت علوم، تحقیقات و فناوری- سال ۱۳۸۸
۷	قرار گرفتن در لیست دانشمندان ۲ درصد برتر جهان در سال های ۲۰۱۹ و ۲۰۲۵ و ۲۰۲۶

۴- زمینه های تحقیقاتی و پژوهشی

ردیف	زمینه های پژوهشی
۱	سنتز پلیمرها و بررسی کاربرد آنها
۲	سنتز ترکیبات مختلف آلی
۳	سنتز و بررسی کاربرد پلیمرهای هوشمند
۴	سیستم های رهایش کنترل شده دارو
۵	سنتز نانوکامپوزیت های پلیمری و بررسی کاربرد آنها
۶	سنتز و شناسایی پلیمرهای قالب مولکولی و بررسی کاربرد آنها بعنوان حسگر
۷	بررسی حذف آلاینده های زیست محیطی با استفاده از پلیمرها و نانوکامپوزیت ها

۵- طرح های تحقیقاتی انجام یافته و در حال انجام

ردیف	عنوان طرح تحقیقاتی	سال شروع	سال خاتمه
۱	سنتز کاتالیزورهای متالوسن و استفاده از آنها برای تهیه پلی اتیلن و پلی استایرن سندیوتاکتیک در واحد پتروشیمی تبریز	۱۳۸۴	۱۳۸۵
۲	طرح خالص سازی حلال ایزوپروپانول صنعتی	۱۳۹۴	۱۳۹۵
۳	مهندسی معکوس و ساخت پلیمرهای دارای قابلیت پخت با تابش ماورابنفش جهت استفاده بعنوان کامپوزیت پر کننده دندان در دندانپزشکی	۱۳۹۶	۱۳۹۸
۴	ساخت نانوکامپوزیت های پلیمری مغناطیسی با قابلیت جذب و حذف آلاینده های زیست محیطی از محلول های آبی	۱۳۹۶	۱۳۹۹
۵	تهیه و شناسایی فیلم های هیدروژل نانوکامپوزیتی خود ترمیم شونده بر پایه پلی ساکارید ها و چارچوب های فلز-آلی با پتانسیل کاربرد در زخم پوش های ضد باکتریایی	۱۴۰۰	ادامه دارد
۶	ساخت روغن های خنک کننده و روان کننده صنعتی سازگار با محیط زیست	۱۴۰۲	ادامه دارد
۷	تشخیص و حذف آفت‌کش‌های کشاورزی در منابع آبی و محصولات کشاورزی با استفاده از پلیمرحسگرها و جاذب‌های زیست‌سازگار مبتنی بر ضایعات کشاورزی	۱۴۰۲	ادامه دارد
۸	سنتز پوشش های پلیمری رادار گریز	۱۴۰۲	ادامه دارد

۶- راهنمایی و مشاوره پایاننامه های کارشناسی ارشد و رساله های دکتری تخصصی

راهنمایی پایان نامه های کارشناسی ارشد	۳۱	نفر
مشاوره پایان نامه های کارشناسی ارشد	۲۵	نفر
راهنمایی رساله های دکتری تخصصی	۱۰	نفر
مشاوره رساله های دکتری تخصصی	۱۱	نفر

۷- دانشجویان دکتری فارغ التحصیل شده

ردیف	نام دانشجو	عنوان رساله دکتری	نقش	تاریخ دفاع
۱	رقیه فتحی	سنتز و شناسایی هیدروژل نانوکامپوزیت های زیستی بر پایه نانوذرات نقره، چارچوب های فلز-آلی و هیدروکسیدهای دولایه در حضور برخی عصاره های گیاهی و بررسی کاربرد آن ها در دارورسانی	استاد راهنما	شهریور ۱۴۰۳
۲	رئوف فروتن	مطالعه بیوکامپوزیت های مغناطیسی بر پایه کربوکسی متیل سلولز، کربن فعال و خاک رس بنتونیت: سنتز، شناسایی و کاربرد آنها در حذف آلاینده های آلی و فلزات سنگین از محلولهای آبی	استاد راهنمای دوم	بهمن ۱۴۰۲
۳	رویا فتحی تیل	سنتز و شناسایی پلیمرهای قالب مولکولی برای جداسازی و خالص سازی ترکیبات زیست فعال فنولی هسپریدین و سیناپیک اسید از ضایعات کشاورزی	استاد راهنمای دوم	شهریور ۱۴۰۰

۸- عضویت در انجمن های علمی

ردیف	انجمن های علمی
۱	عضو انجمن شیمی ایران
۲	عضو انجمن پلیمر ایران
۳	عضو انجمن بین المللی پلیمرهای قالب مولکولی

۹- مقالات علمی چاپ شده در مجلات معتبر بین المللی (ISI)

1- Shabnam Tahmasebi, Reza Mohammadi, *Engineering of 3D Galactomannan-based Hydrogel Scaffolds Doped with HKUST-1 MOF for Enhanced Antibacterial and Antioxidant Activities in Wound Healing,* **International Journal of Biological Macromolecules, 2025**

2- Shabnam Tahmasebi, Reza Mohammadi, *Green synthesis of pH-sensitive magnetic bio-nanocomposite hydrogel based on galactomannan and sodium alginate for targeted colorectal cancer drug delivery,* **Journal of Science: Advanced Materials and Devices, 2025**

3- Ali Mohammadzadeh, Siamak Javanbakht, Reza Mohammadi, *Encapsulation of NH2-MIL-101 (Fe) with dialdehyde starch through Schiff-base imine: A development of a pH-responsive core-shell fluorescent nanocarrier for doxorubicin delivery,* **Carbohydrate Polymer Technologies and Applications, 2025**

4- Arash Vahdatkhah, Hossein Hosseinzadeh, Siamak Javanbakht, Reza Mohammadi, *Fantastic composition of metal-organic frameworks with layered double hydroxides: Insights into synthesis, applications, and synergistic effects,* **Chemical Engineering Journal Advances, 2025**

5- Rauf Foroutan, Ali Mohammadzadeh, Siamak Javanbakht, Reza Mohammadi, Marjan Ghorbani, *Alginate/magnetic hydroxyapatite bio-nanocomposite hydrogel bead as a pH-responsive oral drug carrier for potential colon cancer therapy,* **Results in Chemistry, 2025**

6- Siamak Javanbakht, Hossein Poursadegh, Sima Darvishi, Ali Mohammadzadeh, Ayda Saboury, Marjan Joulaie, Reza Mohammadi, *Application or function of cyclodextrin in insulin and cell delivery for efficient diabetic treatment,* **Hybrid Advances, 2025**

7- Farshad Seyed Nejad, Mostafa Alizade-Harakiyan, Mehdi Haghi, Rokhsareh Ebrahimi, Mohammad Mahdi Zangeneh, Alireza Farajollahi, Roghayeh Fathi, Reza Mohammadi, Samira Samadi Miandoab, Mohammad Heydarnezhad Asl, Baharak Divband, Amin Ahmadi, *Investigating the Efficacy of Silver Anethum graveolens Nano-Extract in Colon Cancer Radiotherapy,* **Chemistry Select, 2025**

8- Siamak Javanbakht, Reza Mohammadi, *Double cross-linking oxidized sodium alginate with Ag-based metal-organic framework and borax as an antibacterial spray-filming hydrogel for bacterial barrier,* **Carbohydrate Polymer Technologies and Applications, 2025**

9- Rauf Foroutan, Ali Mohammadzadeh, Reza Mohammadi, Siamak Javanbakht, *Carboxymethyl cellulose/hydroxyapatite/Fe3O4 bio-nanocomposite hydrogel beads: an efficient oral pH-responsive carrier for doxorubicin delivery,* **Chemical Papers, 2025**

10- Shabnam Tahmasebi, Hassan Farmanbordar, Reza Mohammadi, *Synthesis of magnetic bio-nanocomposite hydrogel beads based on sodium alginate and β-cyclodextrin: Potential pH-responsive oral delivery anticancer systems for colorectal cancer,* **International Journal of Biological Macromolecules, 2025**

11- Hanieh Hamedi, Jahanghir Azizi, Siamak Javanbakht, Reza Mohammadi, *In-situ Preparation of Highly Efficient Antibacterial Modified Pectin Using Zeolitic Imidazolate Framework*, **Journal of Polymers and the Environment, 2025**
12- Roghayeh Fathi, Siamak Javanbakht, Reza Mohammadi, *Pectin/Alginate bio-nanocomposite hydrogel beads based on in-situ formed layered double hydroxide in the presence of Mentha extract: Antibacterial carrier for potential pH-responsive targeted anti-cancer drug delivery*, **European Polymer Journal, 2024**
13- Hossien Rasouli, Negin Sohrabi, Reza Mohammadi, *Design and synthesis of a new recyclable nanohydrogel based on chitosan for Deltamethrin removal from aqueous solutions: Optimization and modeling by RSM-ANN,* **International Journal of Biological Macromolecules, 2024**
14- Hossein Hosseinzadeh, Siamak Javanbakht, Reza Mohammadi, *Molecularly imprinting polymethacrylamide onto Cu-based metal-organic framework as a pH-sensitive core-shell nanocarrier for potential anti-cancer drug delivery*, **Journal of Drug Delivery Science and Technology, 2024**
15- Sima Darvishi, Hossein Hosseinzadeh, Fahimeh Kazeminava, Amin Mahoutforoush, Mohammadreza Tajik, Monireh Rasoulzadehzali, Reza Mohammadi, Samaheh Sadjadi, Siamak Javanbakht, *Heparin-functionalized Cu-based metal-organic framework: An efficient active and passive targeting nanocarrier for anticancer doxorubicin drug delivery,* **International Journal of Biological Macromolecules, 2024**
16- Elnaz Azamateslamtalab, Mahboobeh Madani, Bahman Ramavandi, Reza Mohammadi, *Fe3O4-magnetized Rhizopus oryza and Penicillium citrinum biomass for elimination of tetracycline antibiotic*, **Biomass Conversion and Biorefinery, 2024**
17- Seyed Jamaleddin Peighambardoust, Mina Mollazadeh Azari, Parisa Mohammadzadeh Pakdel, Reza Mohammadi, Rauf Foroutan, *Carboxymethyl cellulose grafted poly (acrylamide)/magnetic biochar as a novel nanocomposite hydrogel for efficient elimination of methylene blue,* **Biomass Conversion and Biorefinery, 2024**
18- Ali Mohammadzadeh, Siamak Javanbakht, Reza Mohammadi, *Magnetic alginate core-shell nanoparticles based on Schiff-base imine bonding for pH-responsive doxorubicin delivery system,* **Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024**
19- Farshad Seyed Nejad, Mostafa Alizade-Harakiyan, Mehdi Haghi, Rokhsareh Ebrahimi, Mohammad Mahdi Zangeneh, Alireza Farajollahi, Roghayeh Fathi, Reza Mohammadi, Samira Samadi Miandoab, Mohammad Heydarnezhad Asl, Baharak Divband, Amin Ahmadi, *Investigation of the impact of copper nanoparticles coated with ocimum bassilicum at chemoradiotherapy of colon carcinoma,* **Biochemistry and Biophysics Reports, 2024**
20- Ali Mohammadzadeh, Siamak Javanbakht, Reza Mohammadi, Fahimeh Kazeminava, *Ferrocene-functionalized magnetic core-shell nanoparticles based on hydrosilylation*

reaction for pH-responsive doxorubicin delivery system, **Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024**

21- Seyed Jamaleddin Peighambardoust, Mahdiyeh Vatankhah, Parisa Mohammadzadeh Pakdel, Rauf Foroutan, Reza Mohammadi, *Carboxymethyl cellulose/activated carbon/hydroxyapatite composite adsorbent for remediation of methylene blue from water media*, **International Journal of Biological Macromolecules, 2024**

22- Rauf Foroutan, Reza Mohammadi, Jafar Razeghi, Mehrshad Ahmadi, Bahman Ramavandi, *Amendment of Sargassum oligocystum bio-char with MnFe2O4 and lanthanum MOF obtained from PET waste for fluoride removal: A comparative study,* **Environmental Research, 2024**

23- Ali Mohammadzadeh, Siamak Javanbakht, Reza Mohammadi, *Magnetic alginate core-shell nanoparticles based on Schiff-base imine bonding for pH-responsive doxorubicin delivery system,* **Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2024**

24- Rauf Foroutan, Seyed Jamaleddin Peighambardoust, Reza Mohammadi, Seyed Hadi Peighambardoust, Bahman Ramavandi, *The potential of biochar derived from banana peel/Fe3O4/ZIF-67@ K2CO3 as magnetic nanocatalyst for biodiesel production from waste cooking oils,* **Results in Engineering, 2024**

25- Hanieh Hamedi, Siamak Javanbakht, Reza Mohammadi, *In-situ synthesis of copper-gallic acid metal–organic framework into the gentamicin-loaded chitosan hydrogel bead: A synergistic enhancement of antibacterial properties,* **Journal of Industrial and Engineering Chemistry, 2024**

26- Zahra Saadatidizaji, Negin Sohrabi, Reza Mohammadi, *Development of a simple polymer-based sensor for detection of the Pirimicarb pesticide,* **Scientific Reports, 2024**

27- Zahra Saadatidizaji, Negin Sohrabi, Reza Mohammadi, Mohammad Sadegh Amini-Fazl, *Tetracycline hydrochloride loaded-alginate based nanoparticle-hydrogel beads for potential wound healing applications: In vitro drug delivery, release kinetics, and antibacterial activity*, **International Journal of Biological Macromolecules, 2024**

28- Javaneh Sakhaei Niroumand, Seyed Jamaleddin Peighambardoust, Reza Mohammadi, *Tetracycline decontamination from aqueous media using nanocomposite adsorbent based on starch-containing magnetic montmorillonite modified by ZIF-67,* **International Journal of Biological Macromolecules, 2024**

29- Negin Sohrabi, Mohammad sadegh Amini-Fazl, Reza Mohammadi, *Adsorption and detection tramadol in aqueous solution by fluorescent-magnetic molecularly imprinting polymers*, **Journal of the Taiwan Institute of Chemical Engineers, 2024**

30- Jahanghir Azizi, Siamak Javanbakht, Reza Mohammadi, *In-situ green synthesis of copper tannic acid framework in the presence of graphene quantum dots: Improved colloidal and antibacterial properties*, **International Journal of Pharmaceutics, 2024**

31- Hossein Rasouli, Reza Mohammadi, *Optimizing and investigating the Removal of Deltamethrin Pesticide from aqueous environments by AC/Fe3O4 magnetic activated*

carbon composite using response surface RSM-BBD method, **Science and Engineering, 2024**

32- Sahel Sani Khaneghah, Negin Sohrabi, Reza Mohammadi, *Synthesis and characterization of magnetic molecularly imprinted polymer of polydopamine/graphene oxide as drug carrier for rivastigmine,* **Journal of Molecular Liquids. 2023**

33- Rauf Foroutan, Reza Mohammadi, Mohammad Taheri, Amir Ahmadi, Bahman Ramavandi, *Edible waste oil to biofuel using reclaimable g-C3N4/HAp/Fe3O4/K2CO3 nanobiocomposite catalyst: Toxicity evaluation and optimization,* **Environmental Technology & Innovation, 2023**

34- Rauf Foroutan, Seyed Jamaleddin Peighambardoust, Reza Mohammadi, Seyed Hadi Peighambardoust, Bahman Ramavandi, *Investigation of kinetics, thermodynamics, and environmental factors of biodiesel generation from sunflower and castor oil using rice husk ash/CuO/K2CO3 heterogeneous catalyst,* **Environmental Technology & Innovation, 2023**

35- Roghayeh Fathi, Reza Mohammadi, *Preparation of pH-responsive magnetic nanocomposite hydrogels based on k-carrageenan/chitosan/silver nanoparticles: Antibacterial carrier for potential targeted anticancer drug delivery,* **International Journal of Biological Macromolecules, 2023**

36- Samad Amani, Negin Sohrabi, Reza Mohammadi, Iraj Ahadzadeh, *Synthesis and investigation of CoMnFeO4/reduced graphene oxide as ecofriendly electrode material for supercapacitor and its electrochemical performances,* **Journal of Alloys and Compounds, 2023**

37- Soheyla Karimi, Hossein Rasuli, Reza Mohammadi, *Facile preparation of pH-sensitive biocompatible alginate beads havening layered double hydroxide supported metal-organic framework for controlled release from doxorubicin to breast cancer cells,* **International Journal of Biological Macromolecules, 2023**

38- Mohammadreza Zahedinejad, Negin Sohrabi, Reza Mohammadi, *Magnetic multi-walled carbon nanotubes as an efficient sorbent for pirimicarb removal from aqueous solutions in continuous (FBAC) and batch formats: thermodynamic, kinetic, isotherm study, optimization and modeling by RSM-ANN,* **Journal of Molecular Liquids, 2023**

39- Hamzeh Khatooni, Seyed Jamaleddin Peighambardoust, Rauf Foroutan, Reza Mohammadi, Bahman Ramavandi, *Adsorption of methylene blue using sodium carboxymethyl cellulose-g-poly (acrylamide-co-methacrylic acid)/Cloisite 30B nanocomposite hydrogel,* **Journal of Polymers and the Environment, 2023**

40- Ayda Saboury, Reza Mohammadi, Siamak Javanbakht, Marjan Ghorbani, *Doxorubicin imprinted magnetic polymethacrylamide as a pH-sensitive anticancer nanocarrier,* **Journal of Drug Delivery Science and Technology, 2023**

41- Hamid Safarzadeh, Seyed Jamaleddin Peighambardoust, Seyed Hamed Mousavi, Rauf Foroutan, Reza Mohammadi, Seyed Hadi Peighambardoust, *Adsorption ability evaluation*

of the poly (methacrylic acid-co-acrylamide)/cloisite 30B nanocomposite hydrogel as a new adsorbent for cationic dye removal, **Environmental Research, 2022**

42- Rauf Foroutan, Seyed Jamaleddin Peighambardoust, Reza Mohammadi, Seyed Hadi Peighambardoust, Bahman Ramavandi, *Generation of biodiesel from edible waste oil using ZIF-67-KOH modified Luffa cylindrica biomass catalyst,* **Fuel, 2022**

43- Rauf Foroutan, Seyed Jamaleddin Peighambardoust, Reza Mohammadi, Seyed Hadi Peighambardoust, Bahman Ramavandi, *Cadmium ion removal from aqueous media using banana peel biochar/Fe3O4/ZIF-67,* **Environmental Research, 2022**

44- Rauf Foroutan, Seyed Jamaleddin Peighambardoust, Reza Mohammadi, Seyed Hadi Peighambardoust, Bahman Ramavandi, *Development of new magnetic adsorbent of walnut shell ash/starch/Fe3O4 for effective copper ions removal: treatment of groundwater samples,* **Chemosphere, 2022**

45- Hamid Safarzadeh, Seyed Jamaleddin Peighambardoust, Seyed Hamed Mousavi, Reza Mohammadi, Seyed Hadi Peighambardoust, *Adsorption of methyl violet dye from wastewater using poly (methacrylic acid-co-acrylamide)/bentonite nanocomposite hydrogels,* **Journal of Polymer Research, 2022**

46- Rauf Foroutan, Reza Mohammadi*, Amir Ahmadi, Gholamreza Bikhabar, Fatemeh Babaei, Bahman Ramavandi, *Impact of ZnO and Fe3O4 magnetic nanoscale on the methyl violet 2B removal efficiency of the activated carbon oak wood,* **Chemosphere, 2022**

47- Negin Sohrabi, Reza Mohammadi*, Hamid Reza Ghassemzadeh, Seyed Sadegh Seyedloo Heris, *Design and synthesis of a new magnetic molecularly imprinted polymer nanocomposite for specific adsorption and separation of diazinon insecticides from aqueous media,* **Microchemical Journal, 2022**

48- Karim Kheiri, Negin Sohrabi, Reza Mohammadi*, Mohammad Sadegh Amini-Fazl, *Preparation and characterization of magnetic nanohydrogel based on chitosan for 5-fluorouracil drug delivery and kinetic study,* **International Journal of Biological Macromolecules, 2022**

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