

بسمه تعالی



مشخصات فردی

نام و نام خانوادگی: محمدرضا امیدخواه نسرين

مرتبه علمی: استاد تمام

سابقه کاری: دانشکده مهندسی شیمی دانشگاه تربیت مدرس از سال ۱۳۶۹ تا کنون

آدرس پستی: تهران-بزرگراه جلال آل احمد دانشگاه تربیت مدرس

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تلفن تماس: ۰۲۱-۸۲۸۸۳۳۳۴ تلفن همراه: ۰۹۱۲۱۰۱۳۳۹۰

تحصیلات

ردیف	مقطع تحصیلی	تاریخ اخذ مدرک	دانشگاه و رشته تحصیلی	کشور
۱	کارشناسی	۱۳۶۱	صنعتی امیرکبیر - مهندسی شیمی	ایران
۲	کارشناسی ارشد	۱۳۶۴	Wayne State Univ. Michigan مهندسی شیمی	آمریکا
۳	دکتری	۱۳۶۹	UMIST, Manchester مهندسی شیمی	انگلستان

زمینه های تحقیقاتی

- طراحی و بهینه سازی فرایند (Process synthesis and optimization)
- مدل سازی و شبیه سازی (Modeling and simulation)
- یک پارچه سازی فرایند- فناوری پینچ (Process integration-Pinch Technology)
- بازیابی حرارت در فرایند (Process heat recovery)
- مدیریت انرژی (Energy management)
- جداسازی غشایی: میکروفیلتراسیون، اولترافیلتراسیون، اسمز معکوس، تبخیر تبریدی و جداسازی گازها (Membrane Separation Processes: MF, UF, RO, PV, GS)
- سنتز و مشخصه یابی غشاهای پلیمری (Polymeric Membrane Preparation and Characterization)
- بکارگیری غشا در صنعت نفت و گاز و پتروشیمی (Membrane in oil, gas and petrochemical industry)
- فناوری پلاسما (Plasma technology)

مسئولیت ها

۱۳۸۹ - تاکنون	استاد تمام دانشگاه تربیت مدرس
۱۳۸۲ - ۱۳۸۹	دانشیار دانشگاه تربیت مدرس
۱۳۶۹ - ۱۳۸۲	استادیار دانشگاه تربیت مدرس
۱۳۹۲ - ۱۴۰۰	رئیس پژوهشگاه شیمی و مهندسی شیمی ایران
۱۳۸۶ - ۱۳۸۹	مدیر پژوهش و فناوری شرکت ملی پالایش و پخش فراورده های نفتی ایران
۱۳۷۸ - ۱۳۸۶	مجری طرح اعطای کمک های فنی و تکنولوژی به صنایع ایران
۱۳۷۷ - ۱۳۷۸	فرصت مطالعاتی در دانشگاه منچستر انگلستان
۱۳۷۶ - ۱۳۷۷	مدیر امور بین الملل موسسه مطالعات بین المللی انرژی وزارت نفت
۱۳۷۳ - ۱۳۷۴	مدیر دفتر منطقه ای توسعه صنعتی سازمان ملل متحد (یونیدو) در ایران
۱۳۷۲ - ۱۳۷۳	معاون آموزش و تحقیق وزیر صنایع
۱۳۷۱ - ۱۳۷۲	معاون آموزشی دانشگاه خواجه نصیرالدین طوسی
۱۳۷۰ - ۱۳۷۱	رئیس بخش فنی مرکز کامپیوتر و اطلاعات مدیریت شرکت ملی نفت ایران

برخی از دستاورد های پژوهشی

- چاپ بیش از ۱۷۰ مقاله علمی پژوهشی در مجلات بین المللی
- چاپ بیش از ۳۰ مقاله در نشریات علمی داخلی
- ارائه بیش از ۱۲۰ مقاله علمی در کنفرانس های علمی داخلی و خارجی
- تالیف سه جلد کتاب علمی و ترجمه یک جلد کتاب علمی
- دارای H-Index = 46 و تعداد ارجاعات بیش از (citation = 7400)
- ۵ ثبت اختراع
- پژوهشگر برتر دانشگاه در سال های ۱۳۹۴، ۱۴۰۰ و ۱۴۰۱
- استاد نمونه دانشگاه در سال ۱۳۹۱ و ۱۴۰۳

هدایت پایان نامه ها

ردیف	مقطع تحصیلی	تعداد
۱	راهنمایی پایان نامه ارشد	بیش از ۱۲۰
۲	راهنمایی رساله دکتری تخصصی	بیش از ۶۰

برخی از طرح های پژوهشی انجام شده

ردیف	عنوان طرح تحقیقاتی
۱	گوگرد زدایی اکسایشی از سوخت های سبک هیدروکربوری
۲	تولید هیدروژن از خوراک هیدروژن سولفید در رآکتور پلاسما
۳	تولید گاز سنتز از خوراک متان در رآکتور پلاسما
۴	ارتقا فرآیند ریفرمینگ متان- بخار با استفاده از یک رآکتور غشائی
۵	بررسی امکان جایگزینی MTBE با افزودنیهای با مخاطرات کمتر در بنزین
۶	بررسی و آنالیز MTBE در آبهای زیر زمینی تهران
۷	مدلسازی و شبیه سازی واحد الفین مجتمع پتروشیمی اراک
۸	تصفیه فاضلاب صنایع غذایی با رشد میکربی در بستر ثابت
۹	حذف آب دور ریز واحد اوره منطقه ۱ پتروشیمی شیراز
۱۰	تهیه آلفا پنین از تربانتین درخت بنه
۱۱	شبیه سازی و بهینه سازی واحد اسید نیتریک مجتمع پتروشیمی شیراز
۱۲	روشهای کاهش (کمینه سازی) آلاینده (فاضلاب) در مبدا تولید واحدهای صنعتی عمده کشور

افتخارات و سمت های اجرایی

۸ سال	رییس و دبیر انجمن مهندسی شیمی ایران
۱۳۹۴ تا کنون	عضو هیات موسس و هیات مدیره و مدیرمسئول نشریات انجمن مهندسی گاز ایران
۱۳۷۳ - ۱۳۷۵	مشاور وزیر صنایع
۱۳۶۹ - ۱۳۷۵	مشاور شرکت ملی صنایع پتروشیمی
۱۳۶۹ - ۱۳۷۴	مشاور شرکت ملی نفت ایران
۱۴۰۳ - تا کنون	عضو فرهنگستان علوم شاخه محیط زیست و انرژی
۱۳۹۸ تا کنون	عضو کمیسیون نشریات علمی کشور
۱۳۸۸ تا کنون	عضو هیات تحریریه نشریه پژوهش نفت
۱۳۸۸ - ۱۳۹۲	عضو هیات تحریریه مجله فرایندنو (شرکت ملی پالایش و پخش فراورده های نفتی ایران)
۵ سال	عضو هیات تحریریه نشریه اقتصاد انرژی
۴ سال	عضو هیات تحریریه Iranian Journal of Chemical Engineering
۱۳۹۳ تا کنون	عضو هیات تحریریه Journal of Renewable Energy and Environment

1. Beygi Harchegani A, Akbari A, **Omidkhah MR**, Asadi Kafshgari L, "Spherical and Hierarchically Porous Mo@ZSM-5/Kaolin composite catalyst Fabricated via solid grinding and Spray-Drying for efficient oxidative desulfurization", *Journal of Industrial and Engineering Chemistry*, 153, 2026, 488–499.
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3. Morsali S, **Omidkhah MR**, Moharrami M, "Synthesis and characterization of modified alumina membrane with carbon nano-tubes for separation of ethanol from water using sweeping gas membrane distillation", *RSC Advances*, 15, 2025, 24102.
4. Shokri Z, Mousavi SM, **Omidkhah MR**, "Advancing sustainable lithium recovery from spent laptop lithium-ion battery cathodes through high pulp density bioleaching followed by Li_2CO_3 precipitation: process intensification and environmental insights", *Journal of Environmental Chemical Engineering*, 13, 2025, 117014.
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10. Hosseinkhani A, Safari P, **Omidkhah MR**, Ebadi Amooghin A, Norouzi A M, "A high-efficiency Pebax® 1657-based mixed matrix membrane containing molybdenum oxide particles for enhanced CO₂/N₂ separation", *International Journal of Environmental Science and Technology*, 22, 2025, 6847–6862.
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12. Hosseinkhani A, **Omidkhah MR**, Ebadi Amooghin A, "Fine-tuning CO₂ separation of mixed matrix membranes by constructing efficient transport pathways through the addition of hybrid porous 2D nanosheets", *Chemical Engineering Journal Advances*, 20, 2024, 100685.
13. Naseri M, **Omidkhah MR**, Mousavi SF, "Advanced electro-assisted filtration of crude oil/water using a conductive mullite whiskers membrane", *Journal of Environmental Chemical Engineering*, 12, 2024, 114060.
14. Naseri M, **Omidkhah MR**, Mousavi SF, "A study on the efficient separation of oily water using mullite whiskers membrane through combined filtration and electrofiltration", *RSC Advances*, 14, 2024, 30245.
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18. Shirinia M, Abdollahi M, **Omidkhah MR**, "Effect of vinyl acetate/dibutyl maleate copolymers on gas transport properties of poly (ethylene oxide-b-amide 6) membranes: a comprehensive study on permeability, diffusivity solubility, and permselectivity of carbon dioxide", *Iranian Polymer Journal*, 33 (6), 2024, 799-814.
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