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تحصیلات:

- *دکتری:* شیمی آلی دانشگاه بیرجند (۱۳۹۲-۱۳۸۸)
  عنوان پایان نامه دوره دکتری: کاربردهای مایعات یونی عامل‌دار در واکنش‌های آلی
  Applications of functionalized ionic liquids in organic reactions

- *کارشناسی ارشد:* شیمی آلی دانشگاه سیستان و بلوچستان (۱۳۸۸-۱۳۸۶)
  عنوان پایان نامه دوره کارشناسی ارشد: واکنش‌های شیمی آلی براساس ترکیبات کومارین
  Organic chemistry reactions based on Coumarin compounds

- *کارشناسی:* شیمی دانشگاه سیستان و بلوچستان (۱۳۸۵-۱۳۸۱)

موضوعات تحقیقی مورد علاقه:

- سنتز سبز نانوذرات و نانوکامپوزیت‌ها
- طراحی و سنتز فوتوکاتالیست‌ها و بررسی عملکرد آنها در حذف آلاینده های محیط زیستی (فلزات سنگین، رنگ های آلی و مواد دارویی)
- طراحی و سنتز کاتالیست‌های نانو و بررسی فعالیت کاتالیستی آن‌ها در واکنش‌های آلی
- سنتز مایعات یونی و نمک‌های مذاب نانو و بررسی فعالیت کاتالیستی آن‌ها در تهیه ترکیبات با خاصیت دارویی
- سنتز و کاربرد مایعات یونی جدید در فرآیندهای جداسازی
- طراحی و سنتز مایعات یونی تثبیت شده بر روی بسترهای نانو و غیرنانو
- تخلیص و فعالسازی بنتونیت

افتخارات کسب شده:

- رتبه اول دانشجویان کارشناسی ارشد ورودی ۸۶ با معدل ۱۹/۵۵
- رتبه اول دانشجویان دکتری ورودی ۸۸ با معدل ۱۹/۶۳
- رتبه اول آزمون جامع دوره دکتری در سال ۹۰
- فارغ التحصیل استعداد درخشان در مقطع دکتری
- برنده جایزه دکتر کاظمی آشتیانی از بنیاد ملی نخبگان کشور در سال ۹۵
- پژوهشگر برتر دانشکده مهندسی معدن، عمران و شیمی در سال ۹۸
- پژوهشگر برتر دانشکده مهندسی معدن، عمران و شیمی در سال ۱۴۰۱

- سرآمد پژوهشی دانشگاه‌های استان در سال های ۱۴۰۳ و ۱۴۰۴
- سرآمد پژوهشی دانشگاه صنعتی بیرجند در سال های ۱۴۰۳ و ۱۴۰۴
- سرآمد آموزشی دانشکده مهندسی معدن، عمران و شیمی در سال ۱۴۰۳
- استاد راهبر هشتمین دوره طرح شهید احمدی روشن

⊂ ثبت اختراع با شماره ثبت ۱۰۳۸۷۰ با عنوان"نانوکامپوزیت پوست تخم مرغ-SnO_2-ZnO برای جذب یون‌های جیوه"

- ثبت اختراع با شماره ثبت ۱۰۹۲۹۱ و عنوان "ساخت نانوکاتالیست متشکل از نانوذرات اکسید کادمیوم، اکسید مس و بنتونیت طبیعی با استفاده از عصاره آبی گیاه کما برای تخریب فوتوکاتالیستی آنتی بیوتیک لووفلوکساسین تحت تابش نور خورشید"
- ثبت اختراع با شماره ثبت ۱۱۰۳۹۴ و عنوان "طراحی و ساخت نانوکاتالیست سه تایی اکسید کبالت، اکسید کادمیوم و زئولیت با عملکرد فوتوکاتالیستی پیشرفته برای حذف آلاینده دارویی"

سوابق اجرایی:

- مدیر گروه مهندسی شیمی دانشگاه صنعتی بیرجند از تاریخ ۹۴/۷/۱۵ تا ۹۶/۸/۲۸
- عضو شورای نظارت و ارزیابی دانشگاه صنعتی بیرجند از تاریخ ۹۴/۳/۳۰ تا ۹۵/۳/۲۹
- رئیس گروه نظارت و ارزیابی و تضمین کیفیت دانشگاه صنعتی بیرجند از تاریخ ۱۴۰۱/۶/۲ تا ۱۴۰۵/۲/۱۳
- نماینده رئیس دانشگاه در کمیته ترفیعات از تاریخ ۱۴۰۲/۱/۱۵ تا ۱۴۰۵/۲/۲
- عضو هیات اجرایی جذب دانشگاه صنعتی بیرجند از تاریخ ۱۴۰۴/۲/۱ تاکنون
- معاون آموزشی دانشگاه صنعتی بیرجند از تاریخ ۱۴۰۵/۲/۲ تاکنون
- عضو پنجمین دوره هیئت ممیزه دانشگاه بیرجند
- عضو ششمین دوره "کارگروه نظارت، ارزیابی و تضمین کیفیت دانشگاه‌های دولتی و دانشگاه‌های وابسته به دستگاه-های اجرایی" هیأت نظارت، ارزیابی و تضمین کیفیت آموزش عالی استان خراسان جنوبی

عضویت در جوامع ملی و بین المللی:

- عضو انجمن شیمی ایران
- عضو بنیاد ملی نخبگان

مقالات چاپ شده در نشریات بین المللی ISI

1) **Moones Honarmand**, Faramarz Sanandaji, Ahmad Aryafar, Solar-driven S-scheme magnetic $CoFe_2O_4$/CdO@bentonite heterostructure for concurrent Cr(VI) reduction and cefixime degradation: mechanistic insights, kinetics, and real wastewater validation, *Scientific Reports*, **2026**. DOI: 10.1038/s41598-026-53606-0.
2) **Moones Honarmand**, Farideh Hydari, Sara Aghaeipoor Hasanalidehi, Faramarz Sanandaji, Atena Naeimi, Sustainable preparation of zeolitic imidazolate framework/cellulose/TiO_2 nanopolymer from Sesame wastes for photocatalytic degradation of ciprofloxacin, *Applied Water Science*, 16, **2026**, 145.

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6) **Moones Honarmand,** Majid Mahjoore, Hamid Kabiri-Rad, Ahmad Aryafar "Fabrication of Co_3O_4/CdO/clinoptilolite nanocomposite heterojunction with synergistically enhanced catalytic performance for photodegradation of pharmaceutical pollutants" *Surfaces and Interfaces*, 44, **2024**, 103609-103621.

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مقالات چاپ شده در نشریات داخلی

۱) **مونس هنرمند** "*مایع یونی جدید به عنوان یک کاتالیزور موثر و قابل بازیافت برای واکنش ناوناگل در آب*" مجله علمی – پژوهشی شیمی کاربردی، دوره ۱۳۹۵، ۴۱-۴۷.

۲) **مونس هنرمند**، مرتضی گل محمدی، جواد حافظی بختیاری " *سنتز سبز نانوذرات SnO_2 بر روی بنتونیت و بررسی فعالیت کاتالیزوری نوری آن در تخریب اریوکروم بلک T* ، نشریه علمی علوم و فناوری رنگ، دوره ۱۴، شماره ۴، زمستان ۱۳۹۹، صفحه ۲۴۷-۲۵۴.

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٤) **مونس هنرمند** "*مایع یونی تثبیت شده بر روی سیلیکاژل: یک کاتالیست ناهمگن نوین برای سنتز ترکیب‌های β, α-غیر اشباع*" نشریه شیمی و مهندسی شیمی، دوره ۴۰، شماره ۳، آذر ۱۴۰۰، ۸۸-۸۳.

٥) ***مونس هنرمند***، *مجید مهجوره، احمد آریافر "سنتز نانوذرات اکسید نیکل با استفاده از عصاره گیاه کما و بررسی فعالیت فوتوکاتالیستی آن در تخریب بروموتیمول بلو" نشریه پژوهش های شیمیایی و نانومواد، دوره ۲، شماره ۱ - خرداد۱۴۰۲، صفحه ٤٦-٥٠.*

٦) **مونس هنرمند**، احمد آریافر، علیرضا نیازمند، *تخریب فوتوکاتالیستی تتراسایکلین هیدروکلراید با استفاده از نانوذرات اکسید نیکل، نشریه سبز و فناوری های پایدار، شماره ۲۱بهار و تابستان۱۴۰۴، صفحات ۵۰-۵۷.*

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مقالات ارائه شده در همایش‌های داخلی

1) Mohammad Hadi Gholami, **Moones Honarmand**, Ahmad Aryafar, *Photocatalytic Degradation of Xanthate Used in Mining Using Bentonite-Based Copper Oxide*

and Cadmium Oxide Nanocatalyst, The 4th National Conference on Mining Technologies of Iran, Yazd University, 2025.

2) Mohammad Hadi Gholami, **Moones Honarmand**, Ahmad Aryafar, *Copper oxide nanoparticles: a green photocatalyst for efficient degradation of tetracycline*, The 4th national conference on the application of experimental and numerical methods in chemical and mineral industries , University of Sistan and Baluchestan, 2025.

3) Mohammad Hadi Gholami, **Moones Honarmand**, Ahmad Aryafar, *Removal of organic pollutants (Eriochrome Black T) using nanocatalysts and sunlight*, The 4th national conference on the application of experimental and numerical methods in chemical and mineral industries , University of Sistan and Baluchestan, 2025.

4) **Moones Honarmand**, Ahmad Aryafar, Faramarz Sanandaji, Seyede Sajedeh Rezaei, *Improving the photocatalytic performance of NiO through coupling with $ZnFe_2O_4$ for the removal of toxic dyes*, 12th Iranian Mining Engineering Conference, University of Kashan, 2024.

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36) M. Shakourian-Fard, A. Bayat, **M. Honarmand** "Oxidation of alcohols by iron oxide magnetic nanoparticles coated with silver nanoparticles" 8th National Conference on chemistry and Environment, Kharazmi University, 2017.

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45) **Moones Honarmand** ''*Design, Synthesis and Characterization of Tris(hydroxymethyl)methane ammonium hydrogensulphate [(THA)(HSO$_4$)] as a Green and New Catalyst for the Henry Reaction*'' 1st Iranian Applied Chemistry Seminar, University of Tabriz, 2016.

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طرح های پژوهشی

عنوان طرح	تامین اعتبار طرح	شروع طرح	پایان طرح
سنتز ترکیبات آلی از طریق واکنش چند جزئی در حضور یک مایع یونی جدید	دانشگاه صنعتی بیرجند	فروردین ۹۴	شهریور ۹۵
تهیه، شناسایی و کاربرد کاتالیزوری یک نمک نانو جدید	دانشگاه صنعتی بیرجند	آذر ۹۵	شهریور ۹۶
مایعات یونی آلیفاتیک تجدید پذیر: طراحی، سنتز و ارزیابی خاصیت کاتالیزوری	صندوق حمایت از پژوهشگران و فناوران کشور	شهریور ۹۶	دی ۹۸
طراحی و ساخت نانوکاتالیست ناهمگون طرح s با عملکرد فوتوکاتالیستی برجسته برای حذف آلاینده‌های دارویی	بنیاد علم ایران	مهر ۱۴۰۲	اسفند ۱۴۰۲
فعالسازی بنتونیت شرکت کیان خاک ایرانیان به روش اسیدی	شرکت کیان خاک ایرانیان	تیر ۱۴۰۲	اسفند ۱۴۰۳
ساخت نانوکاتالیست برپایه مواد معدنی استان خراسان جنوبی	بنیاد ملی نخبگان	شهریور ۱۴۰۳	تیر ۱۴۰۴
بهینه سازی شرایط برای دستیابی به بالاترین سطح ویژه بنتونیت در مقیاس نیمه صنعتی	بنیاد علم ایران	آذر ۱۴۰۳	ادامه دارد

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داور مجلات

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