نام و نام خانوادگی: مونس هنرمند
پست الکترونیک: honarmand@birjandut.ac.ir
مرتبه علمی: دانشیار
دانشکده: مهندسی معدن، عمران و شیمی
گروه علمی: مهندسی شیمی
تلفن محل کار: ۳۲۳۹۱۲۳۲ و ۳۲۳۹۱۳۸۵-۰۵۶

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**.

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,* **2026**.

3) Mohammad Hadi Gholami, **Moones Honarmand**, Ahmad Aryafar, Bentonite-Supported S-Scheme $ZnFe_2O_4$-NiO Magnetic Heterojunction Nanocomposites for Efficient Sunlight-Driven Degradation of Xanthates, *Journal of Cluster Science*, 37, **2026,** 36.

4) **Moones Honarmand**, Ahmad Aryafar, Seyede Sajedeh Rezaei, Atena Naeimi "A novel S-scheme heterojunction magnetic photocatalyst for enhanced degradation of naphthalene in various aqueous solutions and soil" *Journal of Photochemistry & Photobiology, A: Chemistry* 464, **2025**, 116314.

5) Moin Mehrbakhsh, **Moones Honarmand**, Ahmad Aryafar "Anchoring spinel cobalt and zinc ferrites on zeolite for highly synergic photocatalytic reduction of chromium (VI)" *Scientific Reports*, 14, **2024**, 31950-31966.

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.

7) Majid Mahjoore, **Moones Honarmand**, Ahmad Aryafar "Plant-based green fabrication of CuO-CdO-bentonite S-scheme heterojunction with enhanced photocatalytic performance for the degradation of levofloxacin" *Environmental Science and Pollution Research*, 30, **2023**, 44439–44456.

8) Khadijeh Khoshdel, **Moones Honarmand**, Hassan Hassani "SnO_2 and CuO anchored on zeolite as an efficient heterojunction photocatalyst for sunlight-assisted degradation of cefixime" *Environmental Science and Pollution Research*, 30, **2023**, 36883–36903.

9) Majid Mahjoore, Ahmad Aryafar, **Moones Honarmand** "Cadmium Oxide Nanoparticles as A Novel Photo-Catalyst for Degradation of Ciprofloxacin Antibiotic in Aqueous Media" *Journal of Mining and Environment (JME)* 13, 2022, 155-164

10) Mehdi Khojasteh Sahlabad, Sepideh Javanshir, **Moones Honarmand** "Improvement in atmospheric leaching of chalcopyrite concentrate using a new environmentally-friendly ionic liquid", *Hydrometallurgy*, 211, **2022**, 105893.

11) **Moones Honarmand**, Atena Naeimi, Mohammad Saleh Rezakhani, Mohammad Ali Chaji "Ni/NiO doped chitosan-cellulose based on the wastes of barley and shrimp for degradation of ciprofloxacin antibiotic", *Journal of Materials Research and Technology*, 18, **2022**, 4060.

12) Atena Naeimi, Fereshteh Ezzati Ghadi, Seyed Mehdi Saadatkhah, **Moones Honarmand** "First and efficient bio-nano composite, SnO_2/Calcite based on

Cypress leaves and eggshell wastes, for cytotoxic effects on HepG2 liver cancer cell lines and its antioxidant and antimicrobial activity" *Journal of Molecular Structure*, 1259, **2022**, 132690.

13) Atena Naeimi, **Moones Honarmand**, Mohammad Ali Chaji, Sepide Khosravi "Green synthesis of bentonite/cellulose@lead oxide bio-nanocomposite with assistance of Pistacia Atlantica extract for efficient photocatalytic degradation of ciprofloxacin" *Advanced Powder Technology*, **2022**, 33, 103441.

14) Morteza Golmohammadi, **Moones Honarmand**, Amin Esmaeili "Biosynthesis of ZnO nanoparticles supported on bentonite and the evaluation of its photocatalytic activity" *Materials Research Bulletin*, **2022**, 149, 111714.

15) **Moones Honarmand**, Malihe Amini, Atena Naeimi, Arman Iranfar "Green synthesis of ZnO/SnO_2 nanocomposites using pine leaves and their application for the removal of heavy metals from aqueous media" *Journal of Cluster Science*, **2022**, 33, 301.

16) **Moones Honarmand**, Morteza Golmohammadi, Javad Hafezi-bakhtiari " Synthesis and characterization of SnO_2 NPs for photodegradation of eriochrome black-T using response surface methodology" *Environmental Science and Pollution Research*, **2021**, 28, 7123.

17) Reza Shirmehenji, Sepideh Javanshir, **Moones Honarmand** "A Green Approach to the Bio-based Synthesis of Selenium Nanoparticles from Mining Waste" *Journal of Cluster Science*, **2021**, 21, 1311.

18) Marieh Honarmand, Mohammad Mirzadeh, **Moones Honarmand** "Green synthesis of SnO_2-ZnO-eggshell nanocomposites and study of their application in removal of mercury (II) ions from aqueous solution" *Journal of Environmental Health Science and Engineering*, **2020**, 18, 1581.

19) Morteza Golmohammadi, **Moones Honarmand**, Saeed Ghanbari "A green approach to synthesis of ZnO nanoparticles using jujube fruit extract and their application in photocatalytic degradation of organic dyes" *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 229, 117961.

20) **Moones Honarmand**, Morteza Golmohammadi, Atena Naeimi "Green synthesis of SnO_2-bentonite nanocomposites for the efficient photodegradation of methylene blue and eriochrome black-T" *Materials Chemistry and Physics*, **2020**, 241, 122416.

21) Reyhane Javanshir, **Moones Honarmand**, Mehran Hosseini, Mina Hemmati, Anti-dyslipidemic properties of green gold nanoparticle: improvement in oxidative antioxidative balance and associated atherogenicity and insulin resistance, *Clinical Phytoscience*, **2020**, 6, 74.

22) **Moones Honarmand**, Andromachi Tzani, Anastasia Detsi "Synthesis of novel multi-OH functionalized ionic liquid and its application as dual catalyst-solvent for the one-pot synthesis 4H-pyrans" *Journal of Molecular Liquids,* **2019**, 290, 111358**.**

23) **Moones Honarmand**, Morteza Golmohammadi, Atena Naeimi "Biosynthesis of tin oxide (SnO_2) nanoparticles using jujube fruit for photocatalytic degradation of organic dyes" *Advanced Powder Technology*, **2019**, 30 (8), 1551.

24) **Moones Honarmand**, Andromachi Tzani, Anastasia Detsi "2-Hydroxyethyl-1-ammonium 3-hydroxypropane-1-sulfonate: a biodegradable and recyclable ionic liquid for the one-pot synthesis of 2-amino-3-cyano-4*H*-pyrans" *Journal of the Iranian Chemical Society*, **2019**, 16, 571

25) Atena Naeimi, **Moones Honarmand**, Naeime Salandari "First biomimetic electrospun polymer from Carthamus tinctorius plant for sustainable synthesis of bis (1H-indol-3-yl)methanes" *Polymer*, **2018**, 159, 181.

26) Atena Naeimi, **Moones Honarmand**, Asmaa Sedri " Ultrasonic assisted fabrication of first MoO_3/copper complex bionanocomposite based on Sesbania sesban plant for green oxidation of alcohols, *Ultrasonics-Sonochemistry*, **2019**, 50, 331.

27) Atena Naeimi, **Moones Honarmand**, Omid Jawhid " Iron porphyrin supported on natural cellulose polymer extracting from Sesbania sesban plant: a novel eco-friendly and cost-effective catalyst for green oxidation of organic compounds in water" *Cellulose Chemistry and Technology*, **2018**, 52 (5-6), 343

28) **Moones Honarmand**, Mohammad Givzad "An efficient and eco-friendly process for the Knoevenagel reaction using nano organosalt catalyst" *International Journal of Environmental Science and Technology*, **2018**, 15(7), 1551.

29) **Moones Honarmand** "Green synthesis of a nano salt and its application as multifunctional organocatalyst for Knoevenagel condensation" *Research on Chemical Intermediates,* **2017**, 43(11), 6421.

30) **Moones Honarmand**, Atena Naeimi, Mahboobeh Zahedifar "Nano ammonium salt: A novel and recyclable organocatalyst for one-pot, three-component synthesis of 2-amino-3-cyano-4H-pyran derivatives" *Journal of the Iranian Chemical Society,* **2017**, 14(9), 1875.

1) **Moones Honamand**, Elaheh Esmaeili ‘’Tris(hydroxymethyl)methane ammonium hydrogensulphate as a nano ionic liquid and its catalytic activity in the synthesis of bis(indolyl)methanes‘’ *Journal of Molecular Liquids*, **2017**, 225, 741.

31) Sara Sobhani, Zahra Mesbah Falatooni, Solmaz Asadi, **Moones Honarmand** ‘’ Palladium-Schiff base complex immobilized covalently on magnetic nanoparticles

as an efficient and recyclable catalyst for Heck and Suzuki cross-coupling reactions'' *Catalysis letters*, **2016**, 146, 255.

32) Sara Sobhani, Zahra Mesbah Falatooni, **Moones Honarmand** '' *Synthesis of phosphoric acid supported on magnetic core–shell nanoparticles: a novel recyclable heterogeneous catalyst for Kabachnik-Fields reaction in water'' RSC Advances,* **2014**, 4, 15797.

33) Sara Sobhani, Maryam Sadat Ghasemzadeh, **Moones Honarmand**, Farzaneh Zarifi ''*Acetamidine–palladium complex immobilized on γ-Fe_2O_3 nanoparticles: a novel magnetically separable catalyst for Heck and Suzuki coupling Reactions'' RSC Advances,* **2014**, 4, 44166.

34) Sara Sobhani, Maryam Sadat Ghasemzadeh, **Moones Honarmand** '' *Piperidine and Piperazine Immobilized on Iron Oxide Nanoparticles as Magnetically Recyclable Heterogeneous Catalysts for One-Pot Synthesis of b-Phosphonomalonates'' Catalysis letters,* **2014**, 144, 1515.

35) Sara Sobhani, **Moones Honarmand** *'' Ionic liquid immobilized on γ-Fe_2O_3 nanoparticles: A new magnetically recyclable heterogeneous catalyst for one-pot three-component synthesis of 2-amino-3,5-dicarbonitrile-6-thio-pyridines'' Applied catalysis A: General*, **2013**, 467, 456.

36) Sara Sobhani, **Moones Honarmand** *'' Silica-Bonded 2-Hydroxyethylammonium Acetate as an Efficient and Recyclable Catalyst for the Synthesis of 2-Amino-4H-chromen-4-yl Phosphonates and β-Phosphonomalonates '' Catalysis letters,* **2013**, 143, 476.

37) Sara Sobhani, **Moones Honarmand** *'' A Simple and Efficient Method for One-Pot Three-Component Synthesis of Terminal Vinylphosphonates Using a Task-Specific Ionic Liquid '' Synlett,* **2013**, 24, 236.

38) Sara Sobhani, **Moones Honarmand** *'' 2-Hydroxyethylammonium acetate: A reusable task-specific ionic liquid promoted one-pot, three-component synthesis of 2-amino-3,5-dicarbonitrile-6-thio-pyridines'' Comptes Rendus Chimie,* **2013**, 16 (3), 279.

39) Sara Sobhani, Razieh Nasseri, **Moones Honarmand** "*2-Hydroxyethylammonium acetate as a reusable and cost-effective ionic liquid for the efficient synthesis of bis(pyrazolyl)methanes and 2-pyrazolyl-1-nitroalkanes'' Canadian Journal of Chemistry*, **2012**, 90, 798.

40) Sara Sobhani, **Moones Honarmand** "*5-Hydroxypentylammonium Acetate as a Reusable Ionic Liquid Catalyzes Tandem Knoevenagel-Phospha-Michael Reaction of Aldehydes, Malononitrile and Phosphites*" *Journal of the Iranian Chemical Society,* **2012**, 9, 661.

41) Hamid Reza Shaterian, **Moones Honarmand** "*Task-Specific Ionic Liquid as the Recyclable Catalyst for the Rapid and Green Synthesis of Dihydropyrano[3,2-c]chromene Derivatives*" *Synthetic Communications*, **2011**, 41, 3573.

42) Hamid Reza Shaterian, Ali Reza Oveisi, **Moones Honarmand** "*Synthesis of 2,3-Dihydroquinazoline-4(1H)-ones*" *Synthetic Communications*, **2010**, 40, 1231.

43) Hamid Reza Shaterian, **Moones Honarmand**; Ali Reza Oveisi "*Multicomponent synthesis of 3,5-diaryl-2,6-dicyanoanilines under thermal solvent-free conditions*" *Monatshefte für Chemie*, **2010**, 141, 557.

44) Hamid Reza Shaterian, **Moones Honarmand** "*Uncatalyzed, One-pot Synthesis of 3,3'-(Benzylene)- bis(4-hydroxy-2H-chromen-2-one) Derivatives under Thermal Solvent-free Conditions*" *Chinese Journal of Chemistry*, **2009**, *27*, 1795.

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.

۳) حمید رضا قناعتیان، **مونس هنرمند**، زهرا زراعتکار سیدآباد، مهدی شکوریان فرد *" تخریب کاتالیزوری نوری رنگهای آلی با استفاده از نانوذرات اکسید قلع سنتز شده در عصاره برگ توت در حضور نور خورشید"* نشریه علمی علوم و فناوری رنگ، دوره ۱۵، شماره ۳، زمستان ۱۴۰۰، صفحه ۱۷۷-۱۸۵.

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.*

7) **Moones Honarmand**, Majid Mahjoore, Sunlight-assisted degradation of bromocresol green using Co_3O_4 nanoparticles as a high performance photocatalyst, Journal of Geomine, 2023, 1(1), 7-12.

8) **Moones Honarmand**; Faramarz Sanandaji, Intensified photodegradation of organic dyes using Bi-doped ZnO nanoparticles, Journal of Geomine (2023), 1(4), 159-164

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.

5) Mohammad Hadi Gholami, Ahmad Aryafar, **Moones Honarmand**, *Photocatalytic degradation of dye using magnetic zinc ferrite nanoparticles immobilized on bentonite support*, 12th Iranian Mining Engineering Conference, University of Kashan, 2024.

6) Ahmad Aryafar, **Moones Honarmand**, Seyede Sajedeh Rezaei, Faramarz Sanandaji, *Synthesis of $ZnFe_2O_4$-montmorillonite nanocomposite and investigation of its catalytic activity in photodegradation of Eriochrome Black T under direct sunlight*, 6th National Congress and Workshops on Nanoscience and Nanotechnology, Persian Gulf University, 2024.

7) **Moones Honarmand**, Ahmad Aryafar, Faramarz Sanandaji, Seyede Sajedeh Rezaei, *$CoFe_2O_4$ nanoparticles: an effective magnetic photocatalyst for the photodegradation of a pharmaceutical pollutant*, 6th National Congress and Workshops on Nanoscience and Nanotechnology, Persian Gulf University, 2024.

8) **Moones Honarmand**, Seyede Sajedeh Rezaei, Mohammad mahdi Zare, *Synthesis of cobalt oxide for the degradation of organic pollutants under sunlight*, 9th International Conference on Technology and Energy Management, University of Science and Technology of Mazandaran, 2024.

9) Moin Mehrbakhsh, **Moones Honarmand**, Ahmad Aryafar, *$ZnFe_2O_4$ magnetic ferrite nanoparticles: Synthesis, characterization and investigation of*

photocatalytic activity, 9th International Conference on Technology and Energy Management, University of Science and Technology of Mazandaran, 2024.

10) Majid mahjoore, Ahmad Aryafar, **Moones Honarmand** "*Photocatalytic degradation of eriochrome black T using biosynthesized copper oxide nanoparticles*" 10th Iranian Mining Engineering Conference, University of Sistan and Baluchestan, 2022.

11) **Moones Honarmand**, Atena Naeimi, Mohammad Ali Chaji "*Lead oxide nanoparticles for the photocatalytic degradation of methylene blue from aqueous solutions under solar irradiation*" 2nd National Conference on Development in Science and Chemical industry (NCDSCI), University of Jiroft, 2021.

12) Majid Mahjoore, Ahmad Aryafar, **Moones Honarmand** "*Photocatalytic degradation of ciprofloxacin using biosynthesized CuO nanoparticles*" 2nd National Conference on Development in Science and Chemical industry (NCDSCI), University of Jiroft, 2021.

13) **Moones Honarmand**, Atena Naeimi "*The photodegradation of organic dyes using SnO_2/ZnO/eggshell nanocomposites*" 1st International Conference & 4th National Conference on Materials, Metallurgy, Mining, Shahid Chamran University of Ahvaz, 2021.

14) Atena Naeimi, Majid Nayeb Esfahani, **Moones Honarmand** " *Green synthesis of copper oxide (CuO) nanoparticles using Spinacia oleracea*" 1st International Conference & 4th National Conference on Materials, Metallurgy, Mining, Shahid Chamran University of Ahvaz, 2021.

15) **Moones Honarmand**, Iraj Ghaedia, Atena Naeimi "*Rosmarinus officinalis L. extract assisted green synthesis of CuO nanoparticles*" 8th International E-congress on Nanosciences and Nanotechnology, Mashhad University of Medical Sciences, 2021.

16) Atena naeimi, **Moones Honarmand** "*Biosynthesis of gold (Au) nanoparticles using aqueous extract of teucrium polium*" 8th International E-congress on Nanosciences and Nanotechnology, Mashhad University of Medical Sciences, 2021.

17) Atena Naeimi, **Moones Honarmand** "*Phytosynthesis and characterization of MoO_3 bio-nanoparticles and MoO_3/Ag nanotube using natural plant*" 7th National Congress of Chemistry and Chemical Engineering with Emphasis on Native Iranian Technology, Tehran, 2020.

18) **Moones Honarmand**, Arman Iranfar "*Turning waste into wealth: Using almond shell as natural adsorbent for organic dyes*" 8th Iranian mining engineering, University of birjand, 2020.

19) **Moones Honarmand**, Mohammad Mirzadeh, *Green synthesis of tin oxide nanoparticles using Teucrium polium extract and study of their application as adsorbent of bromocrosol green*, 8th Iranian mining engineering, University of birjand, 2020.

20) **Moones Honarmand** *"Synthesis and characterization of 3-aminopropylammonium hydrogensulfate as a nano aliphatic quaternary ammonium salt*" 26th Iranian Seminar of Organic Chemistry, University of Zabol, 2019.

21) **Moones Honarmand**, Anastasia Detsi "*Three-component process for the synthesis of 4H-pyrans using a recyclable ionic liquid in aqueous media*" 26th Iranian Seminar of Organic Chemistry, University of Zabol, 2019.

22) **Moones Honarmand**, Javad Hafezi-bakhtiari, Morteza Golmohammadi "*Biosynthesis of NiO nanoparticles using aqueous extract of oak fruit*" The16th Iranian National Congress of Chemical Engineering, Amirkabir University of Technology, 2019.

23) Morteza Golmohammadi, **Moones Honarmand** "*Green Synthesis of Zinc nanoparticles using jujube fruit extract and their application for organic dye removal*" The16th Iranian National Congress of Chemical Engineering, Amirkabir University of Technology, 2019.

24) **Moones Honarmand** *"Synthesis and characterization of 3-aminopropylammonium hydrogensulfate as a nano aliphatic quaternary ammonium salt*" 26th Iranian Seminar of Organic Chemistry, University of Zabol, 2019.

25) **Moones Honarmand**, Anastasia Detsi "*Three-component process for the synthesis of 4H-pyrans using a recyclable ionic liquid in aqueous media*" 26th Iranian Seminar of Organic Chemistry, University of Zabol, 2019.

26) Morteza Golmohammadi, **Moones Honarmand** "*Green Synthesis of Tin Oxide Nanoparticles using Narcissus Tazetta Leaf Extract*" 3rd Iranian Seminar of Applied Chemistry, Bu-Ali Sina University, 2018.

27) **Moones Honrmand**, Morteza Golmohammadi "*Three-component synthesis of 4H-pryan derivatives in the presence of immobilized ionic liquid on silica gel*" 3rd Iranian Seminar of Applied Chemistry, Bu-Ali Sina University, 2018.

28) **Moones Honarmand**, Morteza Golmohammadi "*A basic and recyclable ionic liquid for the efficient synthesis of 1,8-dioxo-octahydroxanthenes*" 3rd Iranian Seminar of Applied Chemistry, Bu-Ali Sina University, 2018.

29) Reza Shirmehenji, Sepideh Javanshir, **Moones Honarmand** "*Comparing Green Synthesis and Conventional Methods for the Synthesis of Selenium Nanoparticles*" 38th National Geosciences Congress, Earth Sciences Research Institute, 2019.

30) **Moones Honarmand**, Morteza Golmohammadi "*Design and preparation of 1,2-ethanediammonium 3-hydroxypropane-1-sulfonate [(EDA)(HPS)] as a novel nano organocatalyst for three-component synthesis of 4H-pyrans*" The 10th International Chemical Engineering Congress & Exhibition, University of Isfahan, 2018.

31) **M. Honarmand**, M. Shakourian-Fard *"1,3-Propanediaminium methanesulfonate [(PDA)(MS)]: A new nano molten salt catalyst for the efficient synthesis of bis(indolyl)methanes"* 2nd Iranian Seminar of Applied Chemistry, Zanjan University, 2017.

32) **M. Honarmand**, M. Shakourian-Fard *"A simple and green procedure for Knoevenagel condensation reaction using a new ammonium-based ionic liquid*" 2nd Iranian Seminar of Applied Chemistry, Zanjan University, 2017.

33) **M. Honarmand**, M. Shakourian-Fard '' *An eco-friendly process for the one-pot synthesis of 2-amino-3-cyano-4H-pyrans in the presence of nano ionic liquid*'' 2nd National Conference of Green Engineering and Technologies for a Sustainable Future, Amirkabir University of Technology, 2017.

34) **M. Honarmand**, H. Karami '' *Preparation, characterization and application of a green molten salt catalyst for the synthesis of bis(indolyl)methanes*'' 2nd National Conference of Green Engineering and Technologies for a Sustainable Future, Amirkabir University of Technology, 2017.

35) M. Shakourian-Fard, A. Bayat, **M. Honarmand** '' *Synthesis of a molybdate-based catalyst for green oxidation of organic halides aldehydes and ketones*'' 2nd National Conference of Green Engineering and Technologies for a Sustainable Future, Amirkabir University of Technology, 2017.

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.

37) M. Shakourian-Fard, **M. Honarmand**, A. Bayat "Adsorption of organic molecules on the graphene surfaces containing double-vacancy (5-8-5) and stone–wales (55-77) defects: Application in graphene based gas sensors" 8th National Conference on chemistry and Environment, Kharazmi University, 2017.

38) **Moones Honarmand**, Mehdi Shakourian-Farda, Ahmad Bayat *"Design, synthesis and catalytic property evaluation of a nano ammonium salt*" 25th Iranian Seminar of Organic Chemistry, Iran University of Science and Technology, 2017.

39) **Moones Honarmand**, Mehdi Shakourian-Farda, Ahmad Bayat *"Synthesis of bis(indolyl)methanes catalyzed by the first nano aliphatic ammonium-based ionic liquid"* 25th Iranian Seminar of Organic Chemistry, Iran University of Science and Technology, 2017.

40) Mehdi Shakourian-Fard, **Moones Honarmand**, Ahmad Bayat *"DFT Study of Adsorption of Ionic Liquids on the Defective Graphene Nanoflakes"* 25th Iranian Seminar of Organic Chemistry, Iran University of Science and Technology, 2017.

41) Mehdi Shakourian-Fard, **Moones Honarmand**, Ahmad Bayat *"Trends in Physisorption of DNA Nucleobases on the Defective Hexagonal Boron Nitride Nanoflakes: A DFT Study"* 25th Iranian Seminar of Organic Chemistry, Iran University of Science and Technology, 2017.

42) **Moones Honarmand,** Mehdi Shakourian-Fard ''*Tris(hydroxymethyl)methane Ammonium Hydrogensulphate [(THA)(HSO₄)]: An Eco-friendly and Recyclable Catalyst for One-Pot , Three-Component Synthesis of 2-Amino-3-cyano-4H-pyran Derivatives in Water''* 24th Iranian Organic Chemistry Seminar, Azarbaijan Shahid Madani University, 2016.

43) **Moones Honarmand,** Mehdi Shakourian-Fard '' *Efficient and Eco-Friendly Process for the Synthesis of Bis(1H-indol-3- yl)methanes Using Butylammonium Hydrogen Sulphate as an Ionic Liquid''* 24th Iranian Organic Chemistry Seminar, Azarbaijan Shahid Madani University, 2016.

44) **Moones Honarmand** ''*Novel Ionic Liquid as an Efficient and Recyclable Catalyst for the Knovenagel Reaction in Water* '' 1st Iranian Applied Chemistry Seminar, University of Tabriz, 2016.

45) **Moones Honarmand** ''*Design, Synthesis and Characterization of Tris(hydroxymethyl)methane ammonium hydrogensulphate [(THA)(HSO₄)] as a Green and New Catalyst for the Henry Reaction*'' 1st Iranian Applied Chemistry Seminar, University of Tabriz, 2016.

46) Mehdi Shakourian-Fard, **Moones Honarmand** *"Evaluating the Ion-Electrolyte Solvation Free Energy and Electronic Structure Properties of Lithium-Ion Battery Electrolytes"* 19th Iranian Physical Chemistry Conference, University of Guilan, 2016.

47) Sara Sobhani, **Moones Honarmand** ''*One-pot, multicomponent synthesis of highly substituted pyridines by using task-specific ionic liquid''* 18th Iranian Seminar of Organic Chemistry, University of Sistan and Baluchestan, 2012.

48) Sara Sobhani, **Moones Honarmand** *''Task-Specific Ionic liquid as a Recyclable Catalyst for the Efficient Synthesis of β-Phosphonomalonates''* 15th Iranian Chemistry Congress, Bu-Ali Sina University, 2011.

49) Sara Sobhani, **Moones Honarmand** *'' Efficient Synthesis of 2-Amino-4H-Chromene Substituted with Phosphonic Acid Dialkyl Esters Catalyzed by Silica-Supported Ionic Liquid''* 15th Iranian Chemistry Congress, Bu-Ali Sina University, 2011.

50) Sara Sobhani, **Moones Honarmand** ''*Task-specific ionic liquid as the recyclable catalyst for the efficient synthesis of (2-amino-3-cyano-4H-chromene-4-yl) phosphonic acid dialkyl esters derivatives'',* 17th Iranian Seminar of Organic Chemistry, University of Mazandaran, 2010.

51) Hamid Reza Shaterian, **Moones Honarmand** "*Uncatalyzed, One-pot Synthesis of 3,3'-(Benzylene)- bis(4-hydroxy-2H-chromen-2-one) Derivatives under Thermal Solvent-free Conditions*", 16th Iranian Conference of Organic Chemistry, Zanjan University, 2009.

52) Hamid Reza Shaterian, **Moones Honarmand** "*Magnesium hydrogensulfate [$Mg(HSO_4)_2$] as an efficient catalyst for the preparation of silyl ethers, dibenzo[a,j] xanthenes and octahydroxanthene derivatives*'', 16th Iranian Conference of Organic Chemistry, Zanjan University, 2009.

53) Hamid Reza Shaterian, Asghar Hosseinain, **Moones Honarmand**, Fahime Khorami ''*Ferric Hydrogensulfate as Efficient Heterogeneous Catalyst for Enviromentally Friendly Greener Synthesis of 1,8-DioxoOctahydroxanthenes*", 15th Iranian Seminar of Organic Chemistry, Razi University Kermanshah, 2008.

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	بنیاد ملی نخبگان	شهریور ۱۴۰۳	تیر ۱۴۰۴

خراسان جنوبی			
بهینه سازی شرایط برای دستیابی به بالاترین سطح ویژه بنتونیت در مقیاس نیمه صنعتی	بنیاد علم ایران	آذر ۱۴۰۳	ادامه دارد

داور مجلات

Chemical Engineering Journal (ISSN: 1873-3212), Elsevier
Bioorganic Chemistry (ISSN: 0045-2068), Elsevier
Journal of Water Process Engineering (ISSN: 2214-7144), Elsevier
Current Organic Chemistry (ISSN: 1875-6271), Bentham Science
Tetrahedron (ISSN: 0040-4020), Elsevier.
Journal of the Iranian Chemical Society (ISSN: 1735-2428), Springer
Main Group Chemistry (ISSN: 1745-1167), Taylor & Francis
Journal of Physics and Chemistry of Solids (ISSN: 0022-3697), Elsevier
Journal of Mining and Environment (ISSN:2251-8606)
International Journal of Nano Dimension (ISSN: 2228-5059)
Iranian Journal of Chemistry and Chemical Engineering (ISSN: 1021-9986)
Journal of Fashion Technology & Textile Engineering (ISSN: 2329-9568)
Materials Technology Advanced Performance Materials, (ISSN: 1066-7857), Taylor & Francis
Materials Chemistry and Physics, (ISSN: 0254-0584), Elsevier
Chemical Data Collections, (ISSN: 2405-8300), Elsevier
Brazilian Journal of Chemical Engineering, (ISSN: 1678-4383), Springer
Biomass Conversion and Biorefinery, (ISSN: 2190-6823), Springer
International Journal of Biological Macromolecules, (ISSN: 1879-0003), Elsevier
Inorganic Chemistry Communications, (ISSN: 1879-0259), Elsevier

Chemosphere, (ISSN: 1879-1298), Elsevier
Vacuum, (ISSN: 1879-2715), Elsevier
نشریه شیمی و مهندسی شیمی ایران (ISSN: 1022-7768)