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Assistant professor at Fasa University of Medical Sciences (2020- until now)

Fasa University of Medical Sciences Industry Relations Manager (2021-until now)

Head of Non-Communicable Diseases Research Center (2023- until now)

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### **Educations**

Dec2017-2018

**Postdoctoral in Medicinal Chemistry, Shiraz University of Medical Sciences – SUMS, School of Pharmacy.**

Advisor(s): **Sara Rasul-Amini**

Sep 2011 – Feb 2015

**PhD in Organic Chemistry, Yazd, Iran**

Advisor(s): Prof. Mohammad Navid Soltani Rad & Dr. Mohammad Hossein Mosslemin

**Dissertation:** *Synthesis of some novel organic compounds with potential medicinal properties, and application of ionic liquids in organic reaction*

### **Main research interests:**

**Medicinal chemistry** Drug Design, Pharmaceutical Chemistry, Drug delivery systems, Tumor Cell  
**Organic chemistry** Culture, Nanotechnology, Catalyst Characterization, Chromatography,  
Biological activity in novel molecules, Biological activity of natural compounds.

### **Publications**

1. Soltani Rad MN, Behrouz S, Zarenezhad E, Moslemin MH, Zarenezhad A, Mardkhoshnood M, Behrouz M, Rostami S. Synthesis of fluorene and/or benzophenone O-oxime ethers containing amino acid residues and study of their cardiovascular and antibacterial effects. *Medicinal Chemistry Research*. 2014 Aug 1;23(8):3810-22.
2. Behrouz S, Soltani Rad MN, Rostami S, Behrouz M, Zarenezhad E, Zarenezhad A. Design, synthesis, and biological activities of novel azole-bonded  $\beta$ -hydroxypropyl oxime O-ethers. *Molecular diversity*. 2014 Nov 1;18(4):797-808.
3. Zarenezhad E\*, Mosslemin MH, Anaraki-Ardakani H, Shams N, Khoshnood MM, Zarenezhad A. Efficient synthesis of 3, 4-dihydro-1H-quinoxalin-2-ones and 1H-quinolin-2-ones and evaluation of their anti-bacterial activity. *Journal of Chemical Research*. 2014 Jun 1;38(6):337-40.
4. Zarenezhad E\*, Soltani Rad MN, Mosslemin MH, Tabatabaee M, Behrouz S. Nano-MoO<sub>3</sub> as a highly efficient heterogeneous catalyst for a one-pot synthesis of tetrahydropyrimidine derivatives in water. *Journal of Chemical Research*. 2014 Oct 1;38(10):607-10.
5. Mosslemin MH, Zarenezhad E, Shams N, Soltani Rad MN, Anarakiardakani H, Fayazipoor R. Green synthesis of 5-aryl-(1H, 3H, 5H, 10H)-pyrimido [4, 5-b] quinoline-2, 4-diones catalysed by 1, 4-diazabicyclo [2.2. 2] octane in water. *Journal of Chemical Research*. 2014 Mar 1;38(3):169-71.
6. Soltani Rad MN, Behrouz S, Zarenezhad E, Kaviani N. Highly efficient protocol for one-pot N-alkylation of nucleobases using alcohols in bmim [Br]: a rapid route to access acyclic nucleosides. *Journal of the Iranian Chemical Society*. 2015 Sep 1;12(9):1603-12.
7. Shams N, Mosslemin MH, Anaraki-Ardakani H, Zarenezhad E. Four-component reaction of alkyl isocyanide, acetylenic esters, phenols and pyrrole; synthesis of dialkyl 2-[(alkylimino)(1H-pyrrol-2-yl)methyl]-3-(aryloxy) succinate. *Journal of Chemical Research*. 2015 May 1;39(5):270-3.
8. Bahramian M. Amiri A, Zarenezhad A, Mardkhoshnood M, Zarenezhad E, Esfandiari A The ultrastructural survey of Aloe Vera extract on photoreceptor layer after methanol intoxication. *Armaghane danesh*. 2015 Dec 15;20(9):768-79.
9. Soltani Rad MN, Behrouz S, Behrouz M, Sami A, Mardkhoshnood M, Zarenezhad A, Zarenezhad E. Design, synthesis and biological evaluation of novel 1, 2, 3-triazolyl  $\beta$ . *Molecular diversity*. 2016 Aug 1;20(3):705-18.
10. Khoshnood MM, Zareie M, Amiri A, Zarenezhad A, Zarenezhad E, Esfandiari A. The protective effects of erythropoietin on photoreceptor damage by formaldehyde. *Nepalese Journal of Ophthalmology*. 2016 Dec 12;8(1):10-7.

11. Zarenezhad E\*. Synthesis and biological evaluation of novel 1,2,3-triazolyl and *In Vitro* Screening study of antifungal and antibacterial effects. *Journal of Fasa University of Medical Sciences* accepted 2017.
12. Zarenezhad E\*, Soltani Rad MN, Behrouz S, Esmailzadeh S, Farjam M. Immobilized [Cu (cdsalMeen)] on silica gel: a highly efficient heterogeneous catalyst for 'Click'[3+ 2] Huisgen cycloaddition. *Journal of the Iranian Chemical Society*. 2017 Feb 1;14(2):509-19.
13. Esmailzadeh S, Zarenezhad E\*. Copper (II) Schiff Base Complexes with Catalyst Property: Synthesis, Experimental and Theoretical Spectral Characterization, Thermodynamic and Biological Studied, *Acta Chimica Slovenica (ACSi)*. 2018, 65, 416–428.
14. Afsarian MH, Farjam M, Zarenezhad E\*, Behrouz S, Rad MN. Synthesis, Antifungal Evaluation and Molecular Docking Studies of Some Tetrazole Derivatives. *Acta Chimica Slovenica*. 2019 Dec 18;66(4):874-87.
15. Soltani Rad MN, Behrouz S, Mohammadtaghi-Nezhad,J, Zarenezhad E, Agholi M.Silica-tethered cuprous acetophenone thiosemicarbazone (STCATSC) as a novel hybrid nano-catalyst for highly efficient synthesis of new 1,2,3-triazolyl-based metronidazole hybrid analogues having potent antiangiogenic activity, *Appl Organometal Chem*. 2019;e4799.
16. Zarenezhad E, Esmailzadeh S, Behrouz S, Emami L. Copper Schiff base complex as a new immobilized heterogeneous catalyst: experimental, theoretical, biological and docking study. *Journal of the Iranian Chemical Society*. 2020 Aug 12:1-3.
17. Zarenezhad E, Abdollahi A, Esmaili F, Satvati S, Osanloo M. A Fast-Degradable Nano-dressing with Potent Antibacterial Effect. *BioNanoScience*. 2020 Oct 3:1-8.
18. Zarenezhad E, Farjam M, Iraj I, Synthesis and Biological Activity of Pyrimidines: Focus on Pharmacological Application, *Journal of Molecular Structure*, 2020, NOV. Accept
19. Abdollahi A, Zarenezhad E, Osanloo M, Ghaznavi G, Khalili Pour M. Promising antibacterial activity of a mat of polycaprolactone nanofibers impregnated with a green nanogel. *Nanomedicine Research Journal*. 2020 Apr 1;5(2):192-201.
20. Foroughi HO, Kargar M, Erjaee Z, Zarenezhad E. One-pot three-component reaction for facile and efficient green synthesis of chromene pyrimidine-2, 4-dione derivatives and evaluation of their antibacterial activity. *Monatshefte für Chemie-Chemical Monthly*. 2020 Oct 14:1-6.
21. Zarenezhad E, Farjam M, Iraj A. Synthesis and biological activity of pyrimidines-containing hybrids: Focusing on pharmacological application. *Journal of Molecular Structure*. 2021 Apr 15;1230:129833.
22. Marzi M, Vakil MK, Bahmanyar M, Zarenezhad E\*. Paxlovid: mechanism of action, synthesis, and in silico study. *BioMed Research International*. 2022 Jul 7;2022.
23. Kazeminejad Z, Marzi M, Shiroudi A, Kouhpayeh SA, Farjam M, Zarenezhad E\*. Novel 1, 2, 4-Triazoles as Antifungal Agents. *BioMed Research International*. 2022 Mar 22;2022.
24. Nourmohammadi M, Rouhani S, Azizi S, Maaza M, Msagati TA, Rostamnia S, Hatami M, Khaksar S, Zarenezhad E\*, Jang HW, Shokouhimehr M. Magnetic nanocomposite of crosslinked chitosan with 4, 6-diacetylresorcinol for gold immobilization (Fe<sub>3</sub>O<sub>4</sub>@ CS/DAR-Au) as a catalyst for an efficient one-pot synthesis of propargylamine. *Materials Today Communications*. 2021 Dec 1;29:102798.

25. Sanei-Dehkordi A, Moemenbellah-Fard MD, Saffari M, Zarenezhad E, Osanloo M. Nanoliposomes containing limonene and limonene-rich essential oils as novel larvicides against malaria and filariasis mosquito vectors. *BMC Complementary Medicine and Therapies*. 2022 May 19;22(1):140.
26. Valizadeh A, Khaleghi AA, Alipanah H, Zarenezhad E, Osanloo M. Anticarcinogenic effect of chitosan nanoparticles containing syzygium aromaticum essential oil or eugenol toward breast and skin cancer cell lines. *BioNanoScience*. 2021 Sep;11(3):678-86.
27. Qasemi H, Fereidouni Z, Karimi J, Abdollahi A, Zarenezhad E, Rasti F, Osanloo M. Promising antibacterial effect of impregnated nanofiber mats with a green nanogel against clinical and standard strains of *Pseudomonas aeruginosa* and *Staphylococcus aureus*. *Journal of Drug Delivery Science and Technology*. 2021 Dec 1;66:102844.
28. Marzi M, Farjam M, Kazeminejad Z, Shiroudi A, Kouhpayeh A, Zarenezhad E\*. A recent overview of 1, 2, 3-triazole-containing hybrids as novel antifungal agents: focusing on synthesis, mechanism of action, and structure-activity relationship (SAR). *Journal of Chemistry*. 2022 Jan 6;2022:1-50.
29. Osanloo M, Firooziiyan S, Abdollahi A, Hatami S, Nematollahi A, Elahi N, Zarenezhad E\*. Nanoemulsion and nanogel containing *Artemisia dracunculus* essential oil; larvicidal effect and antibacterial activity. *BMC Research Notes*. 2022 Aug 12;15(1):276.
30. Alipanah H, Farjam M, Zarenezhad E, Roozitalab G, Osanloo M. Chitosan nanoparticles containing limonene and limonene-rich essential oils: potential phytotherapy agents for the treatment of melanoma and breast cancers. *BMC Complementary Medicine and Therapies*. 2021 Dec;21(1):1-0.
31. Marzi M, Chijan MR, Zarenezhad E.\* Hydrogels as promising therapeutic strategy for the treatment of skin cancer. *Journal of Molecular Structure*. 2022 Apr 6:133014.
32. Sanei-Dehkordi A, Moemenbellah-Fard MD, Sereshti H, Shahriari-Namadi M, Zarenezhad E, Osanloo M. Chitosan nanoparticles containing *Elettaria cardamomum* and *Cinnamomum zeylanicum* essential oils; repellent and larvicidal effects against a malaria mosquito vector, and cytotoxic effects on a human skin normal cell line. *Chemical Papers*. 2021 Dec;75(12):6545-56.
33. Zarenezhad E, Montazer MN, Tabatabaee M, Irajie C, Iraj A. New solid phase methodology for the synthesis of biscoumarin derivatives: experimental and in silico approaches. *BMC chemistry*. 2022 Dec;16(1):1-6.
34. Zarenezhad E, Abdulabbas HT, Marzi M, Ghazy E, Ekrahi M, Pezeshki B, Ghasemian A, Moawad AA. Nickel Nanoparticles: Applications and Antimicrobial Role against Methicillin-Resistant *Staphylococcus aureus* Infections. *Antibiotics*. 2022 Sep 7;11(9):1208.
35. Ghanbariasad A, Emami L, Zarenezhad E\*, Behrouz S, Zarenezhad A, Rad MN. Synthesis, biological evaluation and in silico studies of 1, 2, 3-triazolyl-metronidazole derivatives against *Leishmania major*. *New Journal of Chemistry*. 2022;46(18):8451-63.
36. Zarenezhad E, Ranjbar N, Firooziiyan S, Ghoorkhanian M, Osanloo M. Promising larvicidal effects of chitosan nanoparticles containing *Laurus nobilis* and *Trachyspermum ammi* essential oils against *Anopheles stephensi*. *International Journal of Tropical Insect Science*. 2022 Feb;42(1):895-904.
37. Zarenezhad E, Taghavi R, Kamrani P, Farjam M, Rostamnia S. Gold nanoparticle decorated dithiocarbamate modified natural boehmite as a catalyst for the synthesis of biologically essential propargylamines. *RSC advances*. 2022;12(49):31680-7.

38. Abdollahi A, Mirzaei E, Amoozegar F, Moemenbellah-Fard MD, Zarenezhad E, Osanloo M. High antibacterial effect of impregnated nanofiber mats with a green nanogel against major human pathogens. *BioNanoScience*. 2021 Jun;11:549-58.
39. Hassankhani A, Gholipour B, Rostamnia S, Zarenezhad E, Nouruzi N, Kavetsky T, Khalilov R, Shokouhimehr M. Sustainable design and novel synthesis of highly recyclable magnetic carbon containing aromatic sulfonic acid: Fe<sub>3</sub>O<sub>4</sub>@ C/Ph—SO<sub>3</sub>H as green solid acid promoted regioselective synthesis of tetrazoloquinazolines. *Applied Organometallic Chemistry*. 2021 Oct;35(10):e6346.
40. Hassankhani A, Gholipour B, Rostamnia S, Zarenezhad E\*, Nouruzi N, Kavetsky T, Khalilov R, Shokouhimehr M. Sustainable design and novel synthesis of highly recyclable magnetic carbon containing aromatic sulfonic acid: Fe<sub>3</sub>O<sub>4</sub>@ C/Ph—SO<sub>3</sub>H as green solid acid promoted regioselective synthesis of tetrazoloquinazolines. *Applied Organometallic Chemistry*. 2021 Oct;35(10):e6346.
41. Zarenezhad E\*, Marzi M. Review on molnupiravir as a promising oral drug for the treatment of COVID-19. *Medicinal Chemistry Research*. 2022 Jan 3:1-2.
42. Ghanbariasad A, Amoozegar F, Rahmani M, Zarenezhad E, Osanloo M. Impregnated nanofibrous mat with nanogel of citrus sinensis essential oil as a new type of dressing in cutaneous leishmaniasis. *Biointerface Res. Appl. Chem*. 2021;11:11066-76.
43. Moemenbellah-Fard MD, Firoozian S, Shahriari-Namadi M, Zarenezhad E, Roozitalab G, Osanloo M. A natural nanogel with higher efficacy than a standard repellent against the primary malaria mosquito vector, *Anopheles stephensi* Liston. *Chemical Papers*. 2022 Mar;76(3):1767-76.
44. Alipanah H, Abdollahi A, Firoozian S, Zarenezhad E, Jafari M, Osanloo M. Nanoemulsion and Nanogel Containing Eucalyptus globulus Essential Oil; Larvicidal Activity and Antibacterial Properties. *Interdisciplinary Perspectives on Infectious Diseases*. 2022 Aug 31;2022.
45. Alipanah H, Rasti F, Zarenezhad E, Dehghan A, Sahebazar B, Osanloo M. Comparison of Anticancer Effects of Carvone, Carvone-Rich Essential Oils, and Chitosan Nanoparticles Containing Each of Them. *Biointerface Res. Appl. Chem*. 2022;12:5716-26.
46. Osanloo M, Firoozian S, Zarenezhad E, Montaseri Z, Satvati S. A Nanoliposomal Gel Containing Cinnamomum zeylanicum Essential Oil with Effective Repellent against the Main Malaria Vector *Anopheles stephensi*. *Interdisciplinary Perspectives on Infectious Diseases*. 2022 Jun 22;2022.
47. Zarenezhad E, Agholi M, Ghanbariasad A, Ranjbar A, Osanloo M. A nanoemulsion-based nanogel of Citrus limon essential oil with leishmanicidal activity against *Leishmania tropica* and *Leishmania major*. *Journal of Parasitic Diseases*. 2021 Jun;45:441-8.
48. Noori M, Sabourian R, Tasharoe A, Safavi M, Iraj A, Khalili Ghomi M, Dastyafteh N, Irajie C, Zarenezhad E, Mostafavi Pour SM, Rasekh F. Thioquinoline derivatives conjugated to thiosemicarbazide as potent tyrosinase inhibitors with anti-melanogenesis properties. *Scientific Reports*. 2023 Feb 13;13(1):2578.
49. Nasiri R, Gholipour B, Nourmohammadi M, Karimi Z, Doae S, Taghavi R, Rostamnia S, Zarenezhad E\*, Karimi F, Kavetsky T, Smutok O. Mesoporous hybrid organosilica for stabilizing Pd nanoparticles and aerobic alcohol oxidation through Pd hydride (Pd-H<sub>2</sub>) species. *International Journal of Hydrogen Energy*. 2023 Feb 26;48(17):6488-98.
50. Sanei-Dehkordi A, Hatami S, Zarenezhad E, Montaseri Z, Osanloo M. Efficacy of nanogels containing carvacrol, cinnamaldehyde, thymol, and a mix compared to a standard repellent against *Anopheles stephensi*. *Industrial Crops and Products*. 2022 Dec 1;189:115883.

51. Ranjbar R, Zarenezhad E, Abdollahi A, Nasrizadeh M, Firoozian S, Namdar N, Osanloo M. Nanoemulsion and Nanogel Containing Cuminum cyminum L Essential Oil: Antioxidant, Anticancer, Antibacterial, and Antilarval Properties. *Journal of Tropical Medicine*. 2023 Feb 6;2023.
52. Marzi M, Osanloo M, Vakil MK, Mansoori Y, Ghasemian A, Dehghan A, Zarenezhad E\*. Applications of Metallic Nanoparticles in the Skin Cancer Treatment. *BioMed Research International*. 2022 Nov 14;2022.
53. Soltani Rad MN, Behrouz S, Aghajani S, Behrouz M, Zarenezhad E, Ghanbariasad A. Design, synthesis, anticancer and in silico assessment of 8-caffeinyln-triazolylmethoxy hybrid conjugates. *RSC Advances*. 2023;13(5):3056-70.
54. Osanloo M, Eskandari Z, Zarenezhad E, Qasemi H, Nematollahi A. Studying the microbial, chemical, and sensory characteristics of shrimp coated with alginate sodium nanoparticles containing Zataria multiflora and Cuminum cyminum essential oils. *Food Science & Nutrition*. 2023.
55. Azadi S, Osanloo M, Zarenezhad E, Farjam M, Jalali A, Ghanbariasad A. Nano-scaled emulsion and nanogel containing Mentha pulegium essential oil: cytotoxicity on human melanoma cells and effects on apoptosis regulator genes. *BMC Complementary Medicine and Therapies*. 2023 Dec;23(1):1-2.
56. Behrouz S, Soltani Rad MN, Ganji Z, Behrouz M, Zarenezhad E, Agholi M. Design, synthesis, anti-giardial and in silico assessments of novel propargylamines containing nitroimidazole core. *Tetrahedron*. 2022 Oct 8;124:133007.
57. Soltani Rad MN, Behrouz S, Mohammad-Javadi M, Zarenezhad E. Synthesis of fish scale derived hydroxyapatite silica propyl bis aminoethoxy ethane cuprous complex (HASPBAEECC) as a novel hybrid nano-catalyst for highly efficient synthesis of new benzimidazole-1, 2, 3-triazole hybrid analogues as antifungal agents. *Molecular Diversity*. 2022 Oct;26(5):2503-21.
58. Zarenezhad E, Esmailzadeh S, Behrouz S, Emami L. Copper Schiff base complex as a new immobilized heterogeneous catalyst: experimental, theoretical, biological and docking study. *Journal of the Iranian Chemical Society*. 2021 Feb;18:283-95.
59. Shahab S, Sheikhi M, Shekoohi K, Kaviani S, Shiroudi A, Zarenezhad E\*. Theoretical Approach Using DFT Calculations of Novel Oxime Derivatives.
60. Irajie C, Ansari Shiri A, Ghaemmaghami P, Dehghani F, Talaei-Khozani T, Jamshidzadeh A, Tanideh R, Zarenezhad E, Tanideh N, Iraj A. Osteogenesis effect of ginger (*Zingiber officinale*) hydroalcoholic extract in mouse embryos. *Koomesh*. 2022 Sep 10;24(5):682-9.
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62. Azadi S, Osanloo M, Zarenezhad E, Farjam M, Jalali A, Ghanbariasad A. Nano-scaled emulsion and nanogel containing Mentha pulegium essential oil: cytotoxicity on human melanoma cells and effects on apoptosis regulator genes. *BMC Complementary Medicine and Therapies*. 2023 Dec;23(1):1-2.
63. Zarenezhad E\*, Behrouz S, Behrouz M, Soltani Rad MN. Synthesis, Anti-microbial, Antifungal and In Silico Assessment of Some 2, 4, 5-Trisubstituted Imidazole Analogues. *Journal of Molecular Structure*. 2023 Oct 11:136839.

64. Ghasemian A, Shokouhi Mostafavi SK, Marzi M, Rostami Chijan M, Kazemi M, Zarenezhad E\*. The association of thioredoxin novel virulence factor in highly virulent *Helicobacter pylori* and gastric cancer and the anti-biofilm effects of natural bioactive compounds. *Medical Science Journal of Islamic Azad University-Tehran Medical Branch*. 2023 Oct 10;33(3):205-18.
65. Zarenezhad E, Sanei-Dehkordi A, Babaalizadeh B, Qasmei H, Osanloo M. Repellent efficacy of the nanogel containing *Acroptilon repens* essential oil in comparison with DEET against *Anopheles stephensi*. *BMC Research Notes*. 2023 Oct 9;16(1):261.
66. Zarenezhad E, Marzi M, Abdulabbas HT, Jasim SA, Kouhpayeh SA, Barbaresi S, Ahmadi S, Ghasemian A. Bilosomes as Nanocarriers for the Drug and Vaccine Delivery against Gastrointestinal Infections: Opportunities and Challenges. *Journal of Functional Biomaterials*. 2023 Sep 1;14(9):453.
67. Rad MN, Behrouz S, Shahbazkhani K, Behrouz M, Zarenezhad E, Ghanbariasad A. Design, synthesis, anticancer and in silico assessment of 8-piperazinyl caffeinyl-triazolylmethyl hybrid conjugates. *RSC advances*. 2023;13(35):24656-73.
68. Zarenezhad E, Behmard E, Sadeghian I, Sadeghian S, Ghanbariasad A, Ghasemian A, Behrouz S, Zarenezhad A, Rad MN. Synthesis, cytotoxic evaluation, molecular docking studies and molecular dynamic simulation of some metronidazole analogues. *Journal of Molecular Structure*. 2023 Jul 15;1284:135378.
69. Sanei-Dehkordi A, Ghasemian A, Zarenezhad E, Qasemi H, Nasiri M, Osanloo M. Nanoliposomes containing three essential oils from the *Artemisia* genus as effective larvicides against *Aedes aegypti* and *Anopheles stephensi*. *Scientific Reports*. 2023 Jul 7;13(1):11002.
70. Zarenezhad E, Abdulabbas HT, Kareem AS, Kouhpayeh SA, Barbaresi S, Najafipour S, Mazarzaei A, Sotoudeh M, Ghasemian A. Protective role of flavonoids quercetin and silymarin in the viral-associated inflammatory bowel disease: an updated review. *Archives of Microbiology*. 2023 Jun;205(6):252.
71. Jokar J, Saleh RO, Rahimian N, Ghasemian A, Ghaznavi G, Radfar A, Zarenezhad E, Najafipour S. Antibacterial effects of single phage and phage cocktail against multidrug-resistant *Klebsiella pneumoniae* isolated from diabetic foot ulcer. *Virus Genes*. 2023 May 31:1-8.
72. Osanloo M, Alipanah H, Farjam M, Taheri A, Zarenezhad E. Anticancer Activity of Chitosan Nanoparticles Containing *Satureja khuzistanica* Essential Oil, and Carvacrol against Human Melanoma and Breast Cancer. *Russian Journal of Bioorganic Chemistry*. 2023 May 11:1-8.
73. Ghane F, Rasouli P, Khanjari B, Yousofi A, Zarenezhad A, Fattahi H, Rostami Chaijan M, Ghasemian A, Miladpour B, Zarenezhad E\*. Antimicrobial Activity and Wound Healing Properties of *Aloe Arborescens* Extract: An in Vivo Study. *Journal of Advanced Biomedical Sciences*. 2023 May 10;13(2):138-47.
74. Yarian F, Yousefpoor Y, Hatami S, Zarenezhad E, Peisepar E, Alipanah H, Osanloo M. Comparison Effects of Alginate Nanoparticles Containing *Syzygium aromaticum* Essential Oil and Eugenol on Apoptotic Regulator Genes and Viability of A-375 and MCF-7 Cancer Cell Lines. *BioNanoScience*. 2023 May 4:1-9.

75. Pezeshki B, Pourmontaseri H, Rahimabadi MS, Haghjoo E, Ostovar M, Dehghan A, **Zarenezhad E**, Chijan MR. A Complementary Therapy with Whey Protein in Diabetes: A Double-Blind Randomized Controlled Clinical Trial. *Traditional and Integrative Medicine*. 2023 May 3:149-55.
76. **Zarenezhad E**, Kanaan MH, Abdollah SS, Vakil MK, Marzi M, Mazarzaei A, Ghasemian A. Metallic Nanoparticles: Their Potential Role in Breast Cancer Immunotherapy via Trained Immunity Provocation. *Biomedicines*. 2023 Apr 23;11(5):1245.
77. Nasiri R, Gholipour B, Nourmohammadi M, Karimi Z, Doaee S, Taghavi R, Rostamnia S, **Zarenezhad E**\*, Karimi F, Kavetsky T, Smutok O. Mesoporous hybrid organosilica for stabilizing Pd nanoparticles and aerobic alcohol oxidation through Pd hydride (Pd-H<sub>2</sub>) species. *International Journal of Hydrogen Energy*. 2023 Feb 26;48(17):6488-98.
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80. Ranjbar R, **Zarenezhad E**, Abdollahi A, Nasrizadeh M, Firoozian S, Namdar N, Osanloo M. Nanoemulsion and Nanogel Containing *Cuminum cyminum* L Essential Oil: Antioxidant, Anticancer, Antibacterial, and Antilarval Properties. *Journal of Tropical Medicine*. 2023 Feb 6;2023.
81. Uozumi Y, Hattori S. A<sub>3</sub>-Coupling Catalyzed by Gold Nanoparticles Supported on  $\gamma$ -AlO(OH). *Synfacts*. 2023 Jan 17;19(02):0179.
82. **Zarenezhad E**, Sadeghian S, Shekoohi K, Emami L, Ghasemian AM, Zarenezhad A. Synthesis, Biological Evaluation and In Silico Studies of Oxime Ether Derivatives Containing a Quinoxaline Moiety. *Russian Journal of Bioorganic Chemistry*. 2023 Feb;49(1):101-13.
83. Behrouz S, Shahbazkhani K, Behrouz M, **Zarenezhad E**, Ghanbariasad A. Design, synthesis, anticancer and in silico assessment of 8-piperazinyl caffeinyl-triazolylmethyl hybrid conjugates†† Electronic supplementary information (ESI) available. See. *RSC Advances*. 2023 Aug 18;13(35):24656-73.

### ***Scientific Meetings (selected)***

1. 4<sup>th</sup> Nanomedicine and Nanosafety Conference (NMNS 2023), Cytotoxic effects of chitosan nanoparticles containing *Satureja khuzistanica* essential oil and carvacrol against melanoma cancer. NMNS 2023 in Shiraz, I.R. Iran, **Poster**, <https://nmns.sums.ac.ir/en/>

2. 4<sup>th</sup> Nanomedicine and Nanosafety Conference (NMNS 2023), A nanoemulsion-based nanogel of lavender essential oil: cytotoxicity on human melanoma cell line. NMNS 2023 in Shiraz, I.R. Iran **Poster**, <https://nmns.sums.ac.ir/en/>
  
3. 9th International Congress on Nanoscience & Nanotechnology, ICNN2022, The simple and greener one-pot approach for the synthesis of biscoumarin derivatives using catalytic amounts of nano-MoO<sub>3</sub> catalyst under mortar-pestle grinding , 15-16 Dec 2022, University of Tehran, Tehran, Iran, **Poster**, <https://science.ut.ac.ir/en>
  
4. 9th International Congress on Nanoscience & Nanotechnology, ICNN2022, A simple and effective approach for the preparation of 1,2,3-triazolyl-based metronidazole hybrid analogues as promising anti-Leishmania agents using [CuL-SiO-HA] as a nano catalyst , 15-16 Dec 2022, University of Tehran, Tehran, Iran, **Presenter**, <https://science.ut.ac.ir/en>
  
5. 8th INTERNATIONAL E-CONGRESS (2021), Nanotechnology (STCATSC) as a Hybrid Nano-Catalyst for Facile Synthesis of Tetrazole Derivatives, Mashhad, Iran (2021). **Poster**, <https://en.nano.ir/event-detail/8th-ternational/N0UxVTIPNjhWZVBrNGFhaVExYjdmQT09/>
  
6. 3<sup>rd</sup> Nanomedicine & Nanosafety Conference, Anti-bacterial Evaluation of Green Synthesis of Silver Nanoparticles Using Plant Ethanolic Extract of *Althaea officinalis* Tehran, Iran (2020). **Poster**. <http://nanomedsafety.com/>
  
7. 4th iranian applied chemistry conference (2019) uromeh, Iran. **Poster**: synthesis of azol derivatives with Cu<sup>(II)</sup> Complex <https://en.symposia.ir/IACS04>
  
8. 4th iranian applied chemistry conference (2019) uromeh, Iran. **Poster**: Green synthesis of silver nanoparticles of *Asafetida* extract with evaluation of antibacterial. <https://en.symposia.ir/IACS04>
  
9. 19<sup>th</sup> Iranian Chemistry Congress, shiraz, Iran (2016), **Poster**: Nano-MoO<sub>3</sub> as a efficient heterogeneous catalyst for one-pot synthesis of biscoumarin derivatives in water.
  
10. 16<sup>th</sup> The Iranian Pharmaceutical Sciences Congress (IPSC) (2019) **Poster**: Design, synthesis and Mtt and DNA interaction evaluation of some bis azol derivatives.
  
11. World Academy of Science, Engineering and Technology International Journal of Animal and Veterinary Sciences Vol:10, No:2, 2016, Synthesis of New Analogs of IPS-339, and Study of Their Cardiovascular in Dogs. <https://waset.org/abstracts>
  
12. World Academy of Science, Engineering and Technology International Journal of Animal and Veterinary Sciences Vol:10, No:2, 2016, Preventive Effects of Silymarin in Retinal Intoxication with Methanol in Rat: Transmission Electron Microscope Study. <https://waset.org/abstracts>
  
13. World Academy of Science, Engineering and Technology International Journal of Animal and Veterinary Sciences Vol:10, No:2, 2016, Synthesis of 3,4-Dihydro-1H-Quinoxalin-2-Ones and 1H-Quinolin-2-Ones and Evaluation of Their Anti-Bacterial Activity. <https://waset.org/abstracts>

14. World Academy of Science, Engineering and Technology International Journal of Animal and Veterinary Sciences Vol:10, No:2, 2016. Synthesis and Biological Activities of Novel -1,2,3-Triazoles Derivatives. <https://waset.org/abstracts>
15. Asian Nano Forum Congress- ANFC (2015), Kish, Iran. **Poster:** Nano-MoO<sub>3</sub> as a highly efficient heterogeneous catalyst for one-pot synthesis of quinoxalines and quinolines derivatives in water and the study of their anti-bacterial activity
16. Asian Nano Forum Congress- ANFC (2015), Kish, Iran. **Poster:** Nano-MoO<sub>3</sub> as a highly efficient heterogeneous catalyst for one-pot synthesis of bis4-hydroxycoumarin derivatives as antibacterial reagents
17. International Conference of Organic Chemistry (2014), Tbilisi, Georgia. **Poster:** Nano-MoO<sub>3</sub> as a catalyst for One-pot green and efficient synthesis of new tetrahydropyrimidine derivatives
18. International Conference of Organic Chemistry (2014), Tbilisi, Georgia. **Poster:** A GREEN PROTOCOL FOR THE SYNTHESIS OF QUINOXALINE AND QUINOLINE DERIVATIVES AND EVALUATION OF THEIR ANTIBACTERIAL ACTIVITIES.
19. Internal Conference of Chemistry and Chemical Engineering (2014), Islamic Azad University, Darab, Iran. **Poster:** green synthesis of tetrahydropyrimidine derivatives using nano catalyst
20. Internal Conference of Chemistry and Chemical Engineering (2014), Islamic Azad University, Darab, Iran. **presentation:** Carbon nanotubes, history, physical and chemical properties
21. 20<sup>th</sup> International Seminar of Organic Chemistry (2013), Hamedan, Iran. **Poster:** Design and Synthesis of Some Novel O-Oxime ethers Having Amino Acid Residues as Potential  $\beta$ -Adrenoceptor Blocking Agents
22. 20<sup>th</sup> International Seminar of Organic Chemistry (2013), Hamedan, Iran **Poster:** DABCO-promoted three-component reaction of anilines, aldehydes and barbituric acids in water
23. 15<sup>th</sup> Iranian Chemistry Congress (ICC) (2011), Hamedan, Iran. **Poster:** Preparation of quinoxalines using o-phenylenediamine and dialkyl acetylenedicarboxylates under Solvent-free conditions
24. Conference on new discoveries in chemistry and medical industry (2008), Tehran, Iran. **Poster:** synthesis of new nitrogen heterocyclic without the use of catalysts with higher yields
25. Conference on new discoveries in chemistry and medical industry (2008), Tehran, Iran. **Poster:** synthesis of new quinoxalines compounds in solid phase without the use of catalysts
26. Conference of Organic Chemistry (2008), Shiraz, Iran. **Poster:** Reaction between phenylenediamines and dialkyl acetylenedicarboxylates for Synthesis of Quinoxalines and Quinolines derivative
27. Conference of Organic Chemistry (2008), Shiraz, Iran. **Poster:** hexamine as catalyst for reaction between aromatic amines and anhydrides in solid phase.
28. 2<sup>th</sup> Iranian Chemistry Conference (2008) Firozabad, Iran. **Poster:** synthesis of quinoxalin and quinolin under catalyst free condition with excellent yield

### ***Honors and awards***

Top researcher in **Fasa University of Medical Sciences** (2021)

Top researcher in **Fasa University** (2021)

Top researcher in **Fasa University** (2022)

Top student among all graduated PhD students in the field of Organic Chemistry.

Member of —Young researchers and elites clubl (2005 till now)

Member of — Iranian chemical society (2011 till now)