










Mahnaz Hassanpour

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EDUCATIONAL QUALIFICATION

Dec 2020 Sep 2017	M.Sc. (Polymer Chemistry), Institute for Advanced Studies in Basic Sciences GPA: 17.64/20 Dissertation Project: <ul style="list-style-type: none">• Synthesis and Characterization of Monomer, Polymer and Modified Cotton based on Ionic Liquids with Antimicrobial Feature
Jan 2017 Sep 2013	B.Sc. (Applied Chemistry), Islamic Azad University GPA: 17.64/20

PUBLICATIONS

Research Papers

- [Tracing the Antibacterial Performance of Bis-Imidazolium-based Ionic Liquid Derivatives](#) Mahnaz Hassanpour, Seyed Mohammad Torabi, Davoud Afshar, Mohammad Hossein Kowsari,* Ali Akbar Meratan, and Nasser Nikfarjam*. (ACS Applied Bio Materials, Accepted 2024)
- Highly Efficient Antibacterial Cotton Fabrics Surface-Immobilized by Bisimidazolium-based Ionic Liquid Derivatives
Mahnaz Hassanpour, Davoud Afshar, Vahid Hassani, Nasser Nikfarjam* (Under Preparation)
- Tracing Experimentally Compatible Bactericidal Activity of Dicationic Imidazolium Based Ionic Liquids: New Insights to Influence of Functional Groups on Permeation and Anti-dhesion by MD Simulations
Seyed Mohammad Torabi, Mohammad H. Kowsari*, Mahnaz Hassanpour, Nasser Nikfarjam (Under Preparation)

Review Papers

- [Antimicrobial Ionic Liquid-based Materials for Biomedical Applications](#) Nasser Nikfarjam, Matineh Ghomi, Tarun Agarwal, Mahnaz Hassanpour, ..., Eric Lichtfouse*, Franklin R Tay*, Pooyan Makvandi* (Advanced Functional Materials, Accepted 2021)
- [Ionic liquid-mediated synthesis of metal nanostructures: Potential application in cancer diagnosis and therapy](#) Mahnaz Hassanpour, Mohammad Hassan Shahavi, ..., Pooyan Makvandi*, Hasan Karimi male*, Ehsan Nazarzadeh Zare* (Journal of Ionic Liquids, Accepted 2022)

- [Porous materials for the recovery of rare earth elements, platinum group metals, and other valuable metals: a review](#) Sidra Iftikhar, Golnaz Heidari, Neda Amanat, Ehsan Nazarzadeh Zare, Muhammad Bilal Asif, Mahnaz Hassanpour, Vesa Pekka Lehto & Mika Sillanpaa (Environmental Chemistry Letters, Accepted 2022)
- [Advances in aptamer-based drug delivery vehicles](#) Kousar Ghasemi, Mahdieh Darroudi, Ilnaz Rahimmanesh, Matineh Ghomi, Mahnaz Hassanpour, ..., Ana Cláudia Santos*, Navid Rabiee* (Advanced Therapeutics, Accepted 2022)
- [Nanotechnology for SARS-CoV-2 diagnosis](#) Alisa Khodadadi¹, Atefeh Zarepour, Sepideh abbaszadeh, Maryam Firoozi, Fatemeh Bahrami-Banan, Amir Rabiee, Mahnaz Hassanpour, ..., Pooyan Makvandi*, Esmaeel Sharifi* (Nanofabrication, Accepted 2022)
- [Biosynthesized Nanomaterials with Antioxidant and Antimicrobial Properties](#) Golnaz Heidari, Mahnaz Hassanpour, ..., Nasser Nikfarjam* (Materials Chemistry Horizons, Accepted 2022)
- [2D MXene nanocomposites: Electrochemical and biomedical applications](#) Marzieh Ramezani Farani, Behnam Nourmohammadi Khiarak, Rui Tao, Zegao Wang, Sepideh Ahmadi, Mahnaz Hassanpour, ..., Eder C. Lima*, Navid Rabiee* (Environmental Science: Nano, Accepted 2022)
- [Metal nanoparticles-assisted early diseases diagnosis](#) Maryam Jouyandeh, S. Mohammad Sajadi*, Farzad Seidi*, Sajjad Habibzadeh, Navid Rabiee*, Mohammad Rabiee, Mahnaz Hassanpour, Mohammad Reza Saeb (OpenNano, Accepted 2022)
- [An overview on new anticancer drugs approved by food and drug administration: impending economic and environmental challenges](#) Mohamad Reza Sarfjoo, Arya Shad, Mahnaz Hassanpour, Rajender Varma (Materials Chemistry Horizons, Accepted 2022)
- [Green and Sustainable Membranes: A review](#) Satar Yousefiasl, Sajad Farashi, Asmita Deka Dey, Arun Kumar, Mahnaz Hassanpour, Esmaeel Sharifi*, Pooyan Makvandi* (Environmental research, Accepted 2023)
- [Chitosan-based nanosystems for cancer diagnosis and therapy: Stimuli-responsive, immune response, and clinical studies](#) Farnaz Dabbagh Moghaddam, Ehsan Nazarzadeh Zare, Mahnaz Hassanpour, ..., Neisiany, Pooyan Makvandi*, Siavash Irvani, Yi Xu* (Carbohydrate Polymers, Accepted 2024)
- [Hydrogel-integrated graphene superstructures for tissue engineering: From periodontal to neural regeneration](#) Iman Zare, Mojdeh Mirshafiei, Bahareh Kheilnezhad, Bahareh Farasati Far, Mahnaz Hassanpour, ..., Anwarul Hasan, Xiang Wang, Mohsen Adeli, Pooyan Makvandi* (Carbon, Accepted 2024)

Conference Papers

- [Antibacterial Nanofibers Made by Imidazolium based Poly\(ionic liquid\)s](#) Mahnaz Hassanpour, Nasser Nikfarjam*. ⁸th International Conferenes on Nanostructures, Tehran, Iran. (Poster Presentation, Accepted 2020)
- [Antibacterial Cotton Fabrics Grafted by Imidazolium-Type Ionic Liquids](#) Mahnaz Hassanpour, Nasser Nikfarjam*. ¹⁴th International Seminar on Polymer Science and Technology, Tehran, Iran. (Oral Presentation, Accepted 2020)



WORK EXPERIENCE

- Jun 2020 | Research and Development Specialist, Abadgaran Construction Chemicals Group
 Feb 2021 | Experience:
- Design and Synthesis of Isothiazolinone Biocides
 - Design and Synthesis of Biobased Hardner
- Research and Development Specialist, Simeco Polymer
- Experience:
- Nov 2022 | • Innovative Manufacturing Approaches for Crosslinked Polyethylene: A Focus on
 Sep 2023 | Peroxide and Silane Methods in the Production of Insulation Cables



RESEARCH INTERESTS

- Design and synthesis of various polymers through different polymerization methods, including FRP, ATRP, and RAFT
- Designing Smart Biomaterials for Tissue Engineering and Environment Applications
- Synthesis, Design of Nanomaterials and Organic Compounds for Biomedical Applications



TECHNIQUES KNOWN

MICROBIOLOGICAL TECHNIQUES

- Minimum Inhibitory Concentration (MIC) Assays
- Minimum Bactericidal Concentration (MBC) Assays

INSTRUMENTAL AND CHEMICAL TECHNIQUES

- Nuclear Magnetic Resonance (NMR) Spectroscopy
- Ultraviolet–Visible (UV-Vis) Spectroscopy
- Fourier Transform Infrared (FTIR) Spectrometry
- Qualitative Methods of Identification, Titration
- Fluent in Quantitative Analysis of Compounds



SOFTWARE SKILLS

GENERAL

- Microsoft Word, PowerPoint, Excel
- Photoshop

SCIENTIFIC

- MestReNova
- Mendeley
- Origin
- BioRender
- ChemDraw
- EndNote
- Blender
- Matrix



LANGUAGE SKILLS

- Persian (Native)
- English (IELTS 6)



REFERENCES

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