Curriculum Vitae

Aram Rezaei, PH.D,

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ACADEMIC QUALIFICATIONS:

2024-Present Associate professor at Nano Drug Delivery Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran

- **2016-2024** Assistant professor at Nano Drug Delivery Research Center, Kermanshah University of Medical Sciences, Kermanshah, Iran
- **2013-2016 Post Doc. Researcher** in Nano Biomaterials; Sharif University of Technology, Tehran, Iran

Research supervisor: Prof. Omid Akhavan

Research activity: Synthesis of functionalized graphene nanoparticles and its application as a gene carrier

2009-2013 Ph.D in Organic Chemistry; Zanjan University, Zanjan, Iran
Research supervisor: Prof. Ali Ramazani
Thesis Title: Multi-component reactions of (*N*-isocyanimino)triphenylphosphorane in the presence of organic acids
2007-2009 M.Sc. in Organic Chemistry; Zanjan University, Zanjan, Iran
Research supervisor: Prof. Ali Ramazani

Thesis Title: Preparation of nano-silica catalysts and study of their catalytic role in the synthesis of γ -aminoamide derivatives

2003-2007 B.Sc. in Pure Chemistry; Tabriz University, Tabriz, Iran

RESEARCH INTERESTS:

- Chemical Synthesis
- Biomaterial Science and Engineering
- Carbon Based Nano Materials
- Environmental Sciences
- Drug and Gene Delivery
- Design, Synthesis and Bio-applications of Functionalized Nanomaterial
- DNA Small Molecule Chemistry

ACADEMIC EXPERIENCE:

Teaching Experience

- General Chemistry I, General Chemistry II, General Chemistry I Lab, General Chemistry II Lab, Organic Chemistry I, Organic Chemistry II, Physical Chemistry I, Nanochemistry, Introduction to Spectroscopy, Nanoparticle Characterization and...

PROFESSIONAL EXPERIENCE:

- **2013-2014** Work in SOHA pharmaceutical Company as a full-time expert and manager of research and development (R&D) Lab.
- **2013** Member, Cleaning Validation committee, Quality assurance (QA) department of SOHA Pharmaceutical Company

HONORS:

- Being accepted for B.Sc. in Chemistry at Tabriz University in the Entrance Exam of Universities (2003).
- Being accepted as a M.Sc. student in Organic Chemistry as first rank at Zanjan University in the Entrance Exam of universities (2007).
- Being accepted as an Ph. D. student in Organic Chemistry as first rank at Zanjan University in the Entrance Exam of university (2009).
- INSF Fellowship (Iran National Science Foundation Fellowship for Postdoctoral Researchers (2013)).
- INSF Grant (Research grant from Iran National Science Foundation Fellowship, 2018)
- NIMAD Grant (Young research grant from National Institute for Medical Research Development (2018))
- Iran Science Elites Federation: Top 100 researchers of Iran in 2021.

MEMBERSHIPS in PROFESSIONAL and SCIENTIFIC SOCIETIES:

Iranian Chemical Society, Since 2008 National Institute for Medical Research Development, Since 2017 National Elite Foundation, Since 2011

PUBLICATIONS:

(International ISI Journals):

- [1] Mehdi Hosseini, <u>Aram Rezaei</u>, Seyyed Mehdi Khoshfetrat, Mohammad Mahdi Alamnezhad, Detoxification of dairy industry effluent from toxic metal ions: Preparation and characterization of a magnetized adsorbent derived from agricultural residues, *Toxicological & Environmental Chemistry*, **2025**, *107*, 98-134 (IF: 1.1).
- [2] Leila Hadian-Dehkordi, Zeinab Abdi, Armin Zarei, Hamideh Aghahosseini, Zeynab Mohammadi, Afsaneh Farokhi, Tahereh Mokary Yazdely, Seyed Hadi Nouri, Mehdi Hosseini, Ali Ramazani, Huajun Zheng, Khdir Hamza Qadir, Mohammed Ahmed Hamad,

and <u>Aram Rezaei</u>, DNA-Metal Composites as Bioinspired Catalysts in Chemical Reactions, *Coordination Chemistry Reviews*, **2024**, *505*, 215635 (IF: 20.3).

- [3] Homa Targhan, <u>Aram Rezaei</u>, Alireza Aliabadi, Huajun Zheng, Hefa Cheng, Tejraj M. Aminabhavi, Adsorptive and photocatalytic degradation of imidacloprid pesticide from wastewater via the fabrication of ZIF-CdS/Tpy quantum dots, *Chemical Engineering Journal*, **2024**, *482*, 148983 (IF: 13.4).
- [4] Mehrnaz Rad-Faraji, Marziyeh Mousazadeh, Maryam Nikkhah, <u>Aram Rezaei</u>, Sajad Moradi, Saman Hosseinkhani, A comparative study of structural and catalytic activity alterations in firefly luciferase induced by carbon quantum dots containing amine and carboxyl functional groups, *International Journal of Biological Macromolecules*, **2024**, 260, 129503 (IF: 7.7).
- [5] Zeinab Saedi, Mohammad Javad Masroor, Atieh Jahangiri-Manesh, <u>Aram Rezaei</u>, Karolina Siskova, Maryam Nikkhah, A Label-Free Sensor Array Based on Carbon Quantum Dots for Detection of α-Synuclein Oligomers in Saliva, Analytical Chemistry, 2024, 96, 12246-12253 (IF: 6.8).
- [6] Nadia Fattahi, Faranak Aghaz, <u>Aram Rezaei</u>, Ali Ramazani, Abolfazl Heydari, Seyedmohammad Hosseininezhad, Won-Kyo Jung, pH-responsive magnetic CuFe2O4-PMAA nanogel conjugated with amino-modified lignin for controlled breast cancer drug delivery, *Scientific Reports*, **2024**, *14*, 25987 (IF: 3.9).
- [7] Armin Zarei, <u>Aram Rezaei</u>, Mohsen Shahlaei, Zhaleh Asani, Ali Ramazani, Chuanyi Wang, Selective and sensitive CQD-based sensing platform for Cu2+ detection in Wilson's disease, *Scientific Reports*, **2024**, *14*, 13183 (IF: 3.9).
- [8] <u>Aram Rezaei</u>, Mohammed Ahmed Hamad, Hadi Adibi, Huajun Zheng and Khdir Hamza Qadir, Chiral discrimination of L-DOPA via L/D-tryptophan decorated carbon quantum dots, *Mater. Adv.*, **2024**, *5*, 1614-1625 (IF: 5).
- [9] Homa Targhan, <u>Aram Rezaei</u>, Alireza Aliabadi, Ali Ramazani, Zhefei Zhao & Huajun Zheng, Palladium-based pseudohomogeneous catalyst for highly selective aerobic oxidation of benzylic alcohols to aldehydes, *Scientific Reports*, **2024**, *14*, 536 (IF: 3.9).

- [10] Homa Targhan, <u>Aram Rezaei</u>, Alireza Aliabadi, Ali Ramazani, Zhefei Zhao, Xinyi Shen & Huajun Zheng, Photocatalytic removal of imidacloprid pesticide from wastewater using CdS QDs passivated by CQDs containing thiol groups, *Scientific Reports*, **2024**, *14*, 530 (IF: 3.9).
- [11] Mehrnaz Rad-Faraji, Marziyeh Mousazadeh, Maryam Nikkhah, Sajad Moradi, Mohabbat Ansari, Klara Cepe, Saman Hosseinkhani, <u>Aram Rezaei</u>, Chirality governs the structure and activity changes of Photinus pyralis firefly luciferase induced by carbon quantum dots, *Nanoscale Advances*, **2024**, *6*, 6154-6165 (IF: 4.6).
- [12] Mehdi Hosseini, <u>Aram Rezaei</u>, Mousa Soleymani, Homogeneous solvent-based microextraction method (HSBME) using a task-specific ionic liquid and its application to the spectrophotometric determination of fluoxetine as pharmaceutical pollutant in real water and urine samples, *Chemical Papers*, **2024**, *78*, 8195-8210 (IF: 2.1).
- [13] Mehdi Hosseini, <u>Aram Rezaei</u>, Synthesis, Characterization, and Application of 1-Methyl-2-hexylthioimidazolium Chloride Liquid for Solvent-based Microextraction (SBME) of Hg in Water Samples, *Analytical and Bioanalytical Chemistry Research*, **2024**, *11*, 423-433 (IF: 1.1).
- [14] Mehdi Hosseini, Seyyed Mehdi Khoshfetrat, Mohammad Panahimehr, <u>Aram Rezaei</u>, ISFME extraction of As species from some real water samples using an imidazoliumbased task-specific ionic liquid (TSIL): Synthesis and characterization, *Separation Science* and Technology, **2024**, *59*, 580-591 (IF: 2.4).
- [15] Aram Rezaei, Huajun Zheng, Shiva Majidian, Saadi Samadi, Ali Ramazani, Chiral PseudoHomogeneous Catalyst Based on Amphiphilic Carbon Quantum Dots for Enantioselective Kharasch–Sosnovsky Reaction, ACS Appl. Mater. Interfaces, 2023, 47, 54373–54385 (IF: 9.5).
- [16] Behzad Adibi-Motlagh, Ehsan Hashemi, Omid Akhavan, Jafar Khezri, Aram Rezaei, Javad Zamani Amir Zakria, Seyed Davar Siadat, Abbas Sahebghadam Lotfi and Abbas Farmany, Immobilization of modular peptides on graphene cocktail for differentiation of human mesenchymal stem cells to hepatic-like cells, Frontiers in Chemistry, 2022, 10, 943003 (IF: 5.54)

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Jaymand. Dual stimuli-responsive polymeric hollow nanocapsules as "smart" drug delivery system against cancer, Polymer-Plastics Technology and Materials, 2020, 58, 1492-1504 (IF: 1.97).

- [38] Hossein Derakhshankhah, Rahim Mohammad-Rezaei, Bakhshali Massoumi, Mojtaba Abbasian, Aram Rezaei, Hadi Samadian & Mehdi Jaymand. Conducting polymer-based electrically conductive adhesive materials: design, fabrication, properties, and applications, Journal of Materials Science: Materials in Electronics, 2020, 31, 10947– 10961 (IF = 2.22).
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Tungstate-Decorated Multifunctional Amphiphilic Carbon Quantum Dots, ACS Appl. Mater. Interfaces 2019, 11, 36, 33194–33206 (IF: 10.3).

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the One-Pot Synthesis of γ-Iminolactone Derivatives, Helvetica. Chimica. Acta, 2010, 93, 2033 (IF: 1.5)

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presence of aromatic carboxylic acid: a one-pot efficient three-component reaction for the synthesis of fully substituted 1,3,4-oxadiazole derivatives, Journal of Heterocyclic Chemistry, 2012, 49, 1447 (IF:1.5).

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- [4] Silica gel promotes cascade synthesis of 2-(heteroaryl)acetamide derivatives from isocyanides, dialkylamines and heteroarylcarbaldehydes, Aram Rezaei, Ali Ramazani, Amir Tofangchi Mahyari and Morteza Rouhani, 17th Iranian Conference of Organic Chemistry, 2010, Babolsar.
- [5] Convenient one-pot synthesis of 3-(5-Aryl-1,3,4-oxadiazol-2-yl)-3-hydroxy-2-butanone derivatives via multicomponent reaction of (N-isocyanimino)triphenylphosphorane, Aram Rezaei, Ali Ramazani, Nahid Shajari and Ali Souldozi, 17th Iranian Conference of Organic Chemistry, 2010, Babolsar.
- [6] The novel synthesis of N-benzyl-1-phenyl-1-(5-phenyl-1,3,4-oxadiazol-2yl)methanamine derivatives via multicomponent reaction of (Nisocyanimino)triphenylphosphorane, Aram Rezaei and Ali Ramazani, 17th Iranian Conference of Organic Chemistry, 2010, Babolsar.
- [7] Novel one-pot, three-component condensation reaction: an efficient approach for the synthesis of γ-Iminolactone derivatives in the presence of water, Aram Rezaei and Ali Ramazani, 17th Iranian Conference of Organic Chemistry, 2010, Babolsar.

[8] Silica sulfuric acid as an efficient and recyclable catalyst for one-pot synthesis of benzo[b]furan derivatives, Aram Rezaei, MortezaRouhani, Ali Ramazani* and Amir Tofangchi Mahyari, 17th Iranian Conference of Organic Chemistry, 2010, Babolsar.

COMPUTER SKILLS:

- . Operating Systems: Linux, Windows
- . Chemical Softwares: Chem Office, Hyper Chem, Gaussian
- . Chemical Apparatus: HPLC, GC, IR, NMR, TGA, PL, Karl Fischer, TOC, AFM, XPS, ...