

# CURRICULUM VITAE

## PERSONAL INFORMATION

**Full name:** Nassim Borazjani  
**Date of birth:** February 11, 1989  
**Place of birth:** Borazjan, Iran  
**Contact address:** Department of Chemistry, Shiraz University, Shiraz, Iran  
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## UNIVERSITY EDUCATION

- ❖ **2007- 2011**
    - *B.Sc Degree in the field of Chemistry from Department of Chemistry, Shiraz University, Shiraz, Iran, as an excellent graduate.*
    - **GPA: 4**
  - ❖ **2011- 2014**
    - *M.Sc Degree in the field of Organic Chemistry from Department of Chemistry, Persian Gulf University (PGU), Bushehr, Iran, as an excellent graduate and ranked first.*
    - **GPA: 4**
      - **Thesis title:** *Applications of Silica-Bonded Heterogeneous Catalysts for the Synthesis of 4H-Pyrans and Benzopyrano-[2,3-d]-pyrimidines Derivatives. Grade 19.59 out of 20 (Excellent degree).*
      - **Supervisor:** Prof. Khodabakhsh Niknam, Professor in Organic Chemistry.
      - **Advisor:** Dr. Najmeh Nowrouzi, Associate Professor of Organic Chemistry.
  - ❖ **2014- 2020**
    - *Ph.D. Degree in the field of Organic Chemistry from Department of Chemistry, Shiraz University, Shiraz, Iran, as an excellent graduate.*
    - **GPA: 4**
      - **Thesis title:** *Synthesis and Biological Evaluation of Novel Ordinary  $\beta$ -Lactam Hybrids Schiff Bases with 2-Mercaptobenzothiazole and Benzoquinoline, Chromene, Benzeimidazole, Naphthalimide, Bis-Naphthalimide Derivatives. Grade 19.63 out of 20 (excellent degree).*
      - **Supervisor:** Dr. Aliasghar Jarrahpour, Professor in Organic Chemistry
      - **Advisor 1:** Dr. Ali Khalafi-Nezhad, Professor in Organic Chemistry.
      - **Advisor 2:** Dr. Alireza Sardarian, Professor in Organic Chemistry.
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## PUBLICATIONS

- Kh Niknam, **N Borazjani**, R Rashidian, A Jamali, Silica-bonded N-Propylpiperazine Nodium N-Propionate as Recyclable Catalyst for Synthesis of 4H-Pyran Derivatives. *Chinese. J. Catal.*, 2013; **34**, 2245-2254.
  - Kh Niknam, **N Borazjani**, Synthesis of Benzopyrano[2,3-d]pyrimidines Using Silica-bonded N-Propylpiperazine Sodium N-Propionate as Heterogeneous Solid Base Catalyst under Solvent-free Conditions. *Monatsh. Chem.*, 2016, **147**, 1129–1135.
  - Kh Niknam, **N Borazjani**, Synthesis of Benzopyrano[2,3-d]pyrimidines Using Silica-Bonded N-Propyl-diethylenetriamine Sulfamic Acid (SPDTSA) as Heterogeneous Solid Acid Catalyst under Solvent-Free Conditions. *Org. Chem. Res.*, 2015, **1**, 78-86.
  - **N Borazjani**, A Jarrahpour, J Ameri-Rad, M Mohkam, M Behzadi, Y Ghasemi, S Mirzaeinia, H.R Karbalaee-Heidari, M.M Ghanbari, G Batta, E Turos, Design, Synthesis and Biological Evaluation of Some Novel Diastereoselective  $\beta$ -Lactams Bearing 2-Mercaptobenzothiazole and Benzoquinoline. *Med. Chem. Res.*, 2019; **28**, 329–339.
  - **N Borazjani**, S Sepehri, M Behzadi, A Jarrahpour, J Ameri-Rad, M Mohkam, Y Ghasemi, A.Reza Akbarizadeh, C Digiorgio, J.M Brunel, M.M Ghanbari, G Batta, M Csavas, E Turos. Three-Component Synthesis of Chromeno  $\beta$ -Lactam Hybrids for Inflammation and Cancer Screening. *Eur. J. Med. Chem.*, 2019; **179**, 389-403.
  - **N Borazjani**, M Behzadi, M Dadkhah-Aseman, J Ameri-Rad, S Kianpour, A Iraj, Y Ghasemi, S. M Nabavizadeh, M.M Ghanbari, G Batta, E Turos. Cytotoxicity, Anticancer and Antioxidant Properties of Mono and Bis-naphthalimido  $\beta$ -Lactam Conjugates. *Med. Chem. Res.*, 2020, **29**, 1355-1375
  - **N Borazjani**, A Jarrahpour, Application of 2D COSY and HSQC NMR in the Characterization of Potentially Anti-inflammation and Anticancer Chromeno- $\beta$ -Lactam Hybrids. *Journal of Energy of Chemical Engineering Scientific Association of Shiraz University.*, Spring 2021, **NO**, 5.
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## INVESTIGATIVE PROJECTS

- Synthesis, characterization of catalyst for multicomponent reactions, 2011-2013.
  - Cycloaddition reactions in order to achieve heterocyclic compounds, 2013-2021.
  - Synthesis, characterization and spectroscopic studies of organic compounds, 2011-2021.
  - Investigation of biological activities of organic compounds such as antibacterial activity, mammalian cell toxicity, hemolytic activity, antioxidant activity, anticancer activity, cytotoxicity activity and anti-inflammatory activity, 2018-2020.
  - Molecular docking studies in order to achieve attractive strategy for the design and optimization of drug candidates, 2018-2020.
  - Multicomponent reactions (MCRs) in order to Pharmacophore hybridization for improvement in the therapeutic potential, strength, mode of action and pharmacokinetics, 2017-2020.
  - Synthesis mutual prodrugs using organic binders and application in anticancer drug roots, 2019-2020.
  - DMTMM-mediated amidation of alginate oligosaccharides, 2023-2024.
  - Synthesis of polysaccharide-based hydrogels cross-linked by boronic acid moiety (hydrogel biomaterials based on dynamic B–O bonds and polysaccharide building blocks 2023-2024.
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## WORK EXPERIENCE

- Cooperation with Dr. Abolfazl Heydari at Polymer Institute of Slovak Academy of Sciences in the field of hydrogels with the titles "Modification and Biomedical Applications of  $\alpha,\beta$ -Unsaturated Carbonyl Groups Toward Clickable Hydroxyl-Containing Polysaccharides" and " Bioprintable and Injectable Supramolecular Hydrogels Mediated by Host-Guest Interactions: from Mechanisms to Rational Designs of Biofunctional Hydrogels " which are now in submit status, 2023.

- Teaching chemistry laboratory, department of chemistry, Shiraz University, Shiraz, Iran, 2017.
- Teaching fundamentals of engineering organic chemistry, department of Chemistry, Shiraz University, Shiraz, Iran, 2019.
- Teaching biological organic chemistry for undergraduate students of department of Biology, Shiraz University, Shiraz, Iran, 2019.
- Teaching health & safety and environmental protection (HSE) for Technical and Vocational Training Organization, Bushehr, Iran, 2019-2020.
- Teaching entrepreneurship for Technical and Vocational Training Organization, Bushehr, Iran, 2019-2020.
- Teaching academic adviser for the Ministry of Education Organization, Bushehr, Iran, 2021.
- Teaching fundamentals of chemical industry for undergraduate students of department of Chemical Industry, Islamic Azad university, Bushehr, Iran, 2021.
- Teaching technical language of chemistry for undergraduate students of department of Chemical Industry, Islamic Azad university, Bushehr, Iran, 2021.
- Teaching organic chemistry 1 laboratory department of Chemical Industry, Islamic Azad university, Bushehr, Iran, 2021.
- Teaching organic chemistry 3 laboratory department of Chemical Industry, Islamic Azad university, Bushehr, Iran, 2021.
- Teaching high school chemistry, Bushehr, Iran, 2021.
- Educational manager and tutor of chemistry of a scientific institute, Bushehr, Iran, 2020.
- Teaching organic physical chemistry for undergraduate students of organic chemistry department of chemistry, Shiraz University, Shiraz, Iran, 2017.
- Teaching organic physical chemistry for undergraduate students of organic chemistry department of chemistry, Shiraz University, Shiraz, Iran, 2018.
- Teaching organic physical chemistry for Master degree students of organic chemistry department of chemistry, Shiraz University, Shiraz, Iran, 2019.
- Research assistant of Professor Ali Asghar Jarrahpour in the course of research practice and report writing for undergraduate students, Shiraz University, Shiraz, Iran, 2019.
- Teaching organic chemistry 1 laboratory department of Chemical Industry, Islamic Azad university, Bushehr, Iran, 2021.
- Teaching organic chemistry 1 laboratory department of Chemical Industry, Zand university, Shiraz, Iran, 2022.
- Teaching organic chemistry 2 laboratory department of Chemical Industry, Islamic Azad university, Bushehr, Iran, 2022.
- Teaching organic chemistry 2 department of Chemical Industry, Islamic Azad university, Bushehr, Iran, 2022.
- Teaching refining of industrial pollutants department of Chemical Industry, Islamic Azad university, Bushehr, Iran, 2022.
- Teaching colour chemistry department of Chemical Industry, Islamic Azad university, Bushehr, Iran, 2022.
- Teaching colour chemistry laboratory department of Chemical Industry, Islamic Azad university, Bushehr, Iran, 2022.
- Internship teacher department of Chemical Industry, Islamic Azad university, Bushehr, Iran, 2022.
- Teaching health and safety in the chemical industry department of Chemical Industry, Islamic Azad university, Bushehr, Iran, 2022.

## **HONORS and AWARDS**

- Being in the rank of 2 in the provincial physics olympiad, 2006.
- Achieving the rank of excellent student from Dashtestan city in the provincial scientific conference of distinguished students, inventor and innovator of Basiji in 2006.
- Achieving the rank of 2 in the field of physical fitness among the schools of Dashtestan city in 2007.
- B.Sc. degree in the field of Chemistry from Department of Chemistry, Shiraz University, Shiraz, Iran. GPA: 17.23 out of 20 as an excellent graduate, 2011.
- Brilliant talent quota without entrance exam to enter the master's degree, 2011.

- M.Sc. degree in the field of Organic Chemistry from Persian Gulf University (PGU), Bushehr, Iran. GPA: 18.31 out of as an excellent graduate and ranked first, 2014.
  - Being in the rank of 52 (among almost 4000 participants) in Ph.D. Entrance exam in Iran by The Ministry of Science Research & Technology, 2014.
  - Being in the rank of 1 (among almost 6 participants) in Ph.D. Comprehensive exam of Department of Chemistry, Shiraz University, Shiraz, Iran, 2015.
  - Ph.D. degree in the field of Chemistry from Department of Chemistry, Shiraz University, Shiraz, Iran. GPA: 19.15 out of 20 as an excellent graduate, 2020.
  - Being as a member of editorial board of Journal of Energy of Chemical Engineering Scientific Association of Shiraz University, Spring 2022.
  - The scholarship holder for research in the framework of the National Scholarship Programme of the Slovak Republic for the support of mobility of researchers.
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## LICENSES & CERTIFICATES

- A Poster presented in 1<sup>st</sup> National Conference on Multi-Component Reactions, Iran, June (2011).
    - **Title:** Three-component process for the synthesis of substituted 2-amino-4*H*-chromenes on *N*-sodium propoanate(*N*-propyl pipyrazine)-modified silica.
  - A Poster presented in 1<sup>st</sup> National Conference on Multi-Component Reactions, Iran, June 2011.
    - **Title:** Synthesis of dihydropyrano[*c*]chromene derivatives on *N*-sodium propoanate(*N*-propyl pipyrazine)-modified silica.
  - A poster presented in 20<sup>st</sup> Iranian Seminar of Organic Chemistry Reactions, Hamadan, Iran, June 2013.
    - **Title:** Pseudo four-component synthesis of benzopyranopyrimidines in the presence of silica-bonded S-sulfonic acid as a recyclable solid acid catalyst.
  - A poster presented in First National Conference on Laboratory Equipment and Technologies, Shiraz, Iran, April 2020.
    - **Title:** Application of 2D COSY and HSQC NMR in the characterization of potentially anti-inflammation and anticancer chromeno-β-lactam hybrids.
  - HSE officer certificate in oil projects.
  - HSE (Safety and Environment) Officer certificate
  - Entrepreneurship certificate with the KAB approach (elementary level).
  - Entrepreneurship certificate with the KAB approach (complete level).
  - Workplace health and safety certificate.
  - New teaching methods certificate.
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## WORKSHOPS

- 8-hour Workshop on "Synthesis and Analysis of Applications of Nanotechnology", Persian Gulf University (PGU), December, 2012, Bushehr, Iran.
- 4-hour Workshop on " Principles of Safety in Chemical Laboratories, Shiraz University, December, 2015, Shiraz, Iran.
- 12-hour Workshop on " Principles of Nanoscience and Nanotechnology", Shiraz University, April, 2016, Shiraz, Iran.
- 4-hour Workshop on " Familiarity with specialized search tool of Sci finder ", April, 2016, Shiraz University, Iran.
- 8-hour Workshop on " Nuclear Magnetic Resonance (NMR) ", July, 2018, Shiraz University, Iran.
- 1-month Workshop on " Safety and environmental health management in research and laboratory affairs", Technical and Vocational Training Organization, 2018, Bushehr, Iran.
- 4-months Workshop on "Regulations and Instructions for Health and safety at work", Technical and Vocational Training Organization, 2018, Bushehr, Iran.

- 2-months Workshop on " Health & Safety and Environmental Protection (HSE) ", Technical and Vocational Training Organization, 2019, Bushehr, Iran.
- workshop on the 1st Training Course on Introduction to Nanostructured Materials, Properties, Synthesis, and Characterization. April, 2022, Shiraz University, Iran.
- workshop on the 12th Training Course on the Principles and Application of Health, Safety and Environment (HSE) With an Emphasis on Biosafety. May, 2023, Shiraz University, Iran.
- Training Course on the Interpretation of NMR Spectra of Organic and Organometallic Compounds. August, 2023.

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## LANGUAGE ABILITY

- **Persian:** My native language
- **English:** Professional working proficiency

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## MEMBERSHIP

**Iranian Chemical Society (ics.ir)**

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## REFERENCES

1. **Dr. Farhad Panahi**, Department of Chemistry, College of Science, *Shiraz University*, Shiraz, Iran. The University of Freiburg, Freiburg, Baden-Württemberg, Germany.
  - E-mail: [panahi@shirazu.ac.ir](mailto:panahi@shirazu.ac.ir)
2. **Prof. Khodabakhsh Niknam**, Department of Chemistry, College of Science, *Persian Gulf University (PGU)*, Bushehr, Iran.
  - E-mail: [khniknam@gmail.com](mailto:khniknam@gmail.com)
3. **Prof. Aliasghar Jarrahpour**, Department of Chemistry, College of Science, *Shiraz University*, Shiraz, Iran.
  - E-mail: [jarahpor@shirazu.ac.ir](mailto:jarahpor@shirazu.ac.ir), [aliasghar6683@yahoo.com](mailto:aliasghar6683@yahoo.com), [aliasghar6683@gmail.com](mailto:aliasghar6683@gmail.com)
4. **Prof. Alireza Sardarian**, Department of Chemistry, College of Science, *Shiraz University*, Shiraz, Iran.
  - E-mail: [alireza.sardarian@gmail.com](mailto:alireza.sardarian@gmail.com)
5. **Prof. Ali Khalafi-Nezhad**, Department of Chemistry, College of Science, *Shiraz University*, Shiraz, Iran.
  - E-mail: [khalafi@chem.susc.ac.ir](mailto:khalafi@chem.susc.ac.ir)
6. **Prof. Mona Hosseini-Sarvari**, Department of Chemistry, College of Science, *Shiraz University*, Shiraz, Iran.
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7. **Prof. Alireza Hasaninejad**, Department of Chemistry, College of Science, *Persian Gulf University (PGU)*, Bushehr, Iran.
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