

## In The Name of God

**Name:** Nahal Goodarzi

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### EDUCATION

#### **BSc.**

**University:** Ayatollah Borujerdi University

**(2012 -2016)**

**Major:** Pure Chemistry

**Thesis:**

**Supervisor:**

#### **Msc.**

**University:** Iran University of Science and Technology

**(2016 - 2019)**

**Major:** Nanoscience and Nanotechnology-Nanochemistry

**Thesis:** Synthesis of mesoporous carbon nitride functionalized with sulfonic acid catalyst and its application in the synthesis of quinazoline and oxazine compounds

**Supervisors:** Dr. Hossein Ghafari, Dr. Seyyed Morteza mmoussavi Khoshdel(Advisor)

#### **PhD**

**University:** Institute for Nanoscience and Nanotechnology (INST), Sharif University of Technology) **(2020-Present)**

**Major:** Nanoscience and Nanotechnology

**Thesis:**

**Supervisors:**

## Professional and Research Experience

- **Main researcher at the** synthesis of sulfonated highly ordered mesoporous graphitic carbon nitride catalyst for ideal synthesis of biologically interest heterocyclic compounds (Led to two publications in the *Research on Chemical Intermediates* and *Monatshefte für Chemie*)
- **Member of the research group at the** synthesis of graphitic carbon nitride nanosheets covalently functionalized with biocompatible Vitamin B1 catalyst for ideal synthesis of quinoxalines (Led to one publication in the *ACS Omega*)
- **Research assistance and member of the research group at the** synthesis of  $ZrO_2/g-C_3N_4$  Hybrid Nanocomposite for the protection of hydroxyl groups and synthesis of  $\alpha$ -Aminophosphonates (Led to one Conference paper in The 22nd International Electronic Conference on Synthetic Organic Chemistry)
- **Member of the research group at the** synthesis of copper modified mesoporous graphitic carbon nitride for Tandem oxidative amidation of alcohols (Led to one publication in the *Solid State Sciences*)
- **Teaching Assistant** at general chemistry educational lab at Iran University of Science and Technology

## PUBLICATIONS (CONFERENCE & JOURNAL)

1. Hossein Ghafuri, Ghazaleh Jafari, **Nahal Goodarzi** and Afsaneh Rashidizadeh “ $ZrO_2/g-C_3N_4$  Hybrid Nanocomposite: An Efficient and Eco-Friendly Recyclable Catalyst for the Trimethylsilyl Protection of Hydroxyl Groups and Synthesis of  $\alpha$ -Aminophosphonates” Presented at the **22nd International Electronic Conference on Synthetic Organic Chemistry**, 15 November-15 December **2018**.
2. Hossein Ghafuri, **Nahal Goodarzi**, Afsaneh Rashidizadeh and Mohammad Ali Douzandegi Fard “ompg- $C_3N_4/SO_3H$ : an efficient and recyclable organocatalyst for the facile synthesis of 2,3-dihydroquinazolin-4(1H)-ones.” *Research on Chemical Intermediates*, **2019**, 45,1-17.
3. Afsaneh Rashidizadeh, Hossein Ghafuri, Hamid Reza Esmaili Zand and **Nahal Goodarzi** “Graphitic Carbon Nitride Nanosheets Covalently Functionalized with Biocompatible Vitamin B1: Synthesis, Characterization, and Its Superior Performance for Synthesis of Quinoxalines” *ACS Omega*, **2019**,4,12544–12554.
4. **Nahal Goodarzi**, Afsaneh Rashidizadeh, Hossein Ghafuri “ompg- $C_3N_4/SO_3H$  organocatalyst-mediated green synthesis of 1,2-dihydro-1-arylnaphtho[1,2-*e*][1,3] oxazin-3-ones under solvent-free and mild conditions: a fast and facile one-pot three-component approach” *Monatshefte für Chemie - Chemical Monthly*, **2020**, 151, 791–798.
5. Afsaneh Rashidizadeh, Hossein Ghafuri, **Nahal Goodarzi**, NajmedinAzizi, “Tandem oxidative amidation of alcohols catalyzed by copper modified well-ordered mesoporous graphitic carbon nitride” *Solid State Sciences*, **2020**, 109, 106427.

## HONORS AND AWARDS

- Ranked 3<sup>st</sup> among 53 students of Ayatollah Borujerdi University based on overall GPA, 2012 – 2016.
- Ranked 1<sup>st</sup> among 18 students of Iran University of Science and Technology based on overall GPA, 2016-2019.
- Accepted to the Ph.D. program without taking universities graduate national entrance exam (This opportunity is given to students who are in the top 5% of their program), 2020.

## SKILLS

- **Computer Skills:** Microsoft Office (Word, Excel, Power point), MestReNova (Mnova), ChemDraw & Chem office.
- **Languages:** Persian: Native  
English: Fluent

## CERTIFICATES

- “Commercial Empowerment of Nanotechnology” by Iran Nanotechnology Innovation Council in Tehran University
- “Health, Safety and Environment (HSE)” by Iran University of Science and Technology
- One day course at International Nanotechnology Exhibition

## RESEARCH INTERESTS

- Nanomaterials
- Porous Materials
- Synthesis of nanostructure catalyst and Multicomponent Reactions
- Green Chemistry
- Synthetic Chemistry
- Heterocyclic Chemistry
- Oxidative reactions
- Bionanocatalyst

## LINKS

- [https://www.researchgate.net/profile/Nahal\\_Goodarzi3](https://www.researchgate.net/profile/Nahal_Goodarzi3)
- [linkedin.com/in/nahal-goodarzi-7a1a0a177](https://www.linkedin.com/in/nahal-goodarzi-7a1a0a177)