

## *Curriculum Vitae*



**Fezzeh Aryanasab**

**Ph.D of Organic Chemistry**

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### **1. Personal Information**

- **Name:** Fezzeh Aryanasab
- **Place of birth:** Neyshabour, Iran
- **Date of birth:** June 1th, 1981
- **Nationality:** Iranian
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### **2. Educational Background**

- **Ph.D.** Organic Chemistry under supervision of Prof. Mohammad R. Saidi, Sharif University of Technology (S.U.T), **2006-2011** (Studying on the synthesis of dithiocarbamates and their application in organic synthesis and finding new green condition for organic reaction)

- **M.Sc.:** Organic Chemistry under supervision of Prof. Mohammad R. Saidi, Sharif University of Technology, Organic Chemistry (Organic synthesis in water), **2004-2006**.
- **B. Sc.:** Imam Khomeini International University, Qazvin, Iran (Pure Chemistry), **1999-2003**.

### 3. Teaching background

Azad university; Karaj branch, **2009-2012**

### 4. Honors and Distinctions

- Top student in high school.
- Top student in B.Sc.
- Member of Iranian Chemical Society

### 5. Interests

- Organic Synthesis
- Total Synthesis
- Green Chemistry
- ElectroOrganic Synthesis

### 6. Publications

1. Azizi, N.; **Aryanasab, F.**; Saidi, M. R. Efficient Friedel-Crafts alkylation of indoles and pyrrol with enones and nitroalkene in water. *Org. Biomol. Chem.* **2006**, *4*, 4275-4277 (Hot paper).
2. Azizi, N.; **Aryanasab, F.**; Torkiyan, L; Ziyaei, A.; Saidi, M. R. One-pot synthesis of dithiocarbamates accelerated in water. *J. Org. Chem.* **2006**, *71*, 3634-3635.
3. Azizi, N.; **Aryanasab, F.**; Saidi, M. R. Straightforward and highly efficient catalyst-free one-pot synthesis of dithiocarbamates under solvent-free conditions. *Org. Lett.* **2006**, *8*, 5275-5277.

4. Azizi, N.; Pourhasan, B.; **Aryanasab, F.**; Saidi, M. R. A simple and novel eco-friendly process for the one-pot synthesis of dithiocarbamates from amines, carbon disulfide, and epoxides. *Synlett* **2007**, 1239-1242.
5. Azizi, N.; Ebrahimi, F.; Akbari, E.; **Aryanasab, F.**; Saidi, M. R. Waste-free and environment-friendly uncatalyzed synthesis of dithiocarbamates under solvent-free conditions. *Synlett* **2007**, 2797-2800.
6. **Aryanasab, F.**; Saidi, M. R. LiClO<sub>4</sub>-accelerated three-component Mannich-type reaction of diethyl malonate with imines: An efficient synthesis of  $\beta$ -amino esters under solvent-free conditions. *Synth. Commun.* **2008**, 38, 4036-4044.
7. Hadad, D. H.; Bayandari, M. A.; Kazemzad, M.; Dinarvand, R.; **Aryanasab, F.**; Nabid, M. R. A strategy for the electro-organic synthesis of new hydrocaffeic acid derivatives. *J. Appl. Electrochem.* **2008**, 38, 409-413.
8. Ziyaei Halimehjani, A.; **Aryanasab, F.**; Saidi, M. R. Catalyst-free Friedel–Crafts alkylation of naphthols with nitrostyrenes in the presence of water. *Tetrahedron Lett.* **2009**, 50, 1441-1443.
9. **Aryanasab, F.**; Ziyaei Halimehjani, A.; Saidi, M. R. Dithiocarbamate as an efficient intermediate for the synthesis of 2-amino-1,3,4-thiadiazoles in water. *Tetrahedron Lett.* **2010**, 51, 790-792.
10. **Aryanasab, F.**; Maleki, H.; Saidi, M. R. A Novel One-Pot Synthesis of 2-Alkylthio-1,3,4-Oxadiazoles in Water. *J. Iran Chem. Soc.* **2011**, 8, 525-530.
11. Azizi, N.; **Aryanasab, F.**; Tourkiyan, L.; Saidi, M. R. Versatile and large-scale synthesis of functional dithiocarbamates in water. *Synth. Commun.* **2011**, 8, 525-530.
12. Saidi, M. R.; Pourshojaei, Y.; **Aryanasab, F.** Highly efficient Michael reaction of amines catalyzed by silica-supported aluminium chloride. *Synth. Commun.* **2009**, 39, 1109-1119.
13. **Aryanasab, F.**; Saidi, M. R. Dithiocarbamic acids and thioles as nucleophiles in the Bargellini reaction. *Sci. Iran.* **2012**, 19, 551–554.
14. **Aryanasab, F.**; Shokri, A.; Saidi, M. R. A simple and green approach to the synthesis of 3-substituted rhodanines and thiazolidine-2,4-diones. Submitted.
15. **Aryanasab, F.**; Saidi, M. R. Transition metal-free addition of dithiocarbamates to alkynes, A one-pot solvent-free regio- and stereoselective synthesis of s-vinyl dithiocarbamates. Submitted.

## 7. Presentations

1. Frustrated Lewis Pairs. M. R. Saidi.; F. Aryanasab Ph. D. Seminar, **September, 2005**.
2. Click Chemistry. M. R. Saidi.; F. Aryanasab M. Sc. Seminar, **September, 2009**.

## 8. Research Interests

My principal research interests lie in the fields of synthesis of dithiocarbamates and their applications in organic transformations, mainly in the synthesis of heterocyclic compounds. During my Ph.D. and M.Sc. programs under the supervision of Prof. M. R. Saidi, we investigated a novel and green one-pot synthesis of dithiocarbamates by one-pot reaction of amines, carbon disulfide and different organic compounds such as Michael acceptors, epoxides, alkyl halides and alkynes in water or in solvent-free conditions. We also used dithiocarbamates in order to synthesis of different heterocyclic compounds such as thiadiazoles, oxadiazoles, rhodanines and thiazolidine-2,4-diones in water or in solvent-free conditions.

In addition to the mentioned researches, I have had many studies regarding to "green reactions" and "electroOrganic synthesis" and now I am doing a number of research related to these fields.

## 9. Reference

### 1) Dr. M. R. Saidi

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