

## Curriculum Vitae

### 1. Personal Information

First Name	<b>Ghasem</b>	Address (home):	33 Katoozian Alley (East 30 <sup>th</sup> ), South Allameh Street, Saadat Abad, Postal Code: 1999700000, Tehran, Iran
Last Name	<b>Rezanejade Bardajee</b>		
Date of Birth	23 Aug 1977	Address (work):	Payame Noor Univ., Qazvin Branch, Qazvin, Iran
Place of Birth	Shiraz, Iran	Tel.	+98 21 88575258
ID	229-318273-8		<b>+98 912 288 5374</b>
<b>E-mail: rezanejad@pnu.ac.ir; ghrezanejad@yahoo.com</b>			

#### a. B. Sc. Degree (as a Top Student)

University of Shiraz, Shiraz, Iran	Pure Chemistry	GPA: 16.32/20	1995-1999
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#### b. M.Sc. Degree (as a Top Student)

University of Tehran, Tehran, Iran	Organic Chemistry	GPA: 16.72/20	1999-2002
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#### Supervisor:

Prof. Hooshang Pirelahi

#### M.sc Thesis:

Synthesis and photoinduced rearrangements of some 4*H*-thiopyran-1,1-dioxides to their bicyclic derivatives

#### c. Ph.D. Degree (as a Top Student)

Sharif University of Technology, Tehran, Iran	Organic Chemistry	GPA: 17.71/20	2002-2006
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#### Supervisors:

Prof. Firouz Matloubi Moghaddam; Prof. Ali Pourjavadi

#### Ph.D. Thesis:

- Investigation on some solid supported (CuSO<sub>4</sub>, KF/Al<sub>2</sub>O<sub>3</sub>,...) organic reactions (protection, Michael addition, sulfoxide-elimination,  $\gamma$ -pyrone synthesis,...) with or without microwave assistance
- Polysaccharide modification via graft copolymerization under gamma-irradiation

#### d. Sabbatical Leave

University of Toronto, Toronto, Canada	Nanomaterials and Polymer (Synthesis and Physical Organic Chemistry)	2004-2005
University of Toronto, Toronto, Canada	Nanomaterials and Polymer (Synthesis and Physical Organic Chemistry)	Summer 2012

#### Supervisor:

Professor Mitchel A. Winnik

3. **Research Area**
  - a. Surface modification of fluorescent semiconductor nanocrystals or quantum dots
  - b. Synthesis, characterization, and energy transfer of dye-labeled poly(butyl methacrylate) latex nano-particles prepared by miniemulsion polymerization
  - c. Synthesis and spectroscopic properties of new functional fluorescent naphthalimide and coumarin dyes
  - d. Synthesis of bio-based superabsorbent hydrogels and their applications in drug delivery systems
  - e. Metal complexes loaded on SBA-15 as a novel nano-catalyst in organic transformations

#### 4. Current Position

Payame Noor University	Nanomaterials, Polymer and Organic Synthesis	Assistant Professor-2007-2011
Payame Noor University	Nanomaterials, Polymer and Organic Synthesis	Associate Professor-2011 to Present

*Address (Work): Department of Chemistry, Payame Noor University, 19395-4697, Tehran, Iran*

#### Selected Publications in Polymer Chemistry, Nanomaterials and Organic Synthesis Area

1. Bardajee G. R., Hooshyar Z., Dianatnejad N., Optical and structural properties of hydrophilic CdTe quantum dots in cationic starch polymeric matrix, *Starch/Stärke* **2015**, Accepted. **IF = 1.677**
2. Bardajee G. R., Hooshyar Z., One-pot synthesis of biocompatible superparamagnetic iron oxide nanoparticles/hydrogel based on salep: Characterization and drug delivery, *Carbohydrate Polymers* **2014**, *101*, 741-751. **IF = 3.916**
3. Bardajee G. R., Hooshyar Z., Asli M. J., Shahidi F. E., Dianatnejad N., Synthesis of a novel supermagnetic iron oxide nanocomposite hydrogel based on graft copolymerization of poly((2-dimethylamino)ethyl methacrylate) onto salep for controlled release of drug, *Materials Science and Engineering C* **2014**, *36*, 277-286. **IF = 2.736**
4. Bardajee G. R., Hooshyar Z., Shafagh P., Ghasvand S., Kakavand N., Combined spectroscopic and molecular docking techniques to study interaction of Zn (II) DiAmsar with serum albumins, *Journal of Luminescence* **2014**, *156*, 55-62. **IF = 2.367**
5. Farahani B. V., Bardajee G. R., Rajabi F. H., Hooshyar Z., Study on the interaction of Co (III) DiAmsar with serum albumins: Spectroscopic and molecular docking methods, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2015**, *135*, 410-416. **IF = 2.129**
6. Samadpour M., Bardajee G. R., Ghiasvand S., Shafagh P., Transition metal doping for enhancing quantum dot sensitized solar cells performance, *Journal of Physics D: Applied Physics* **2015**, *48*, 95101-95107. **IF = 2.721**
7. Bardajee G. R., et al., Simple and efficient syntheses of novel benzo[4,5]imidazo[1,2-a]pyridine derivatives, *Tetrahedron Letters* **2015**, *56*, 743-746. **IF = 2.391**
8. Soleyman R., Bardajee G. R., Pourjavadi A., Varamesh A., Hydrolyzed salep/gelatin-polyacrylamide as a novel highly micro/nano-porous superabsorbent hydrogel: synthesis, optimization and investigation on swelling behavior, *Scientia Iranica* **2015**, *22*, 883-893. **IF = 0.842**
9. Bardajee G. R., Hooshyar Z., Mizani F., Improving optical properties of CdTe quantum dots by a new multidentate biopolymer based on salep, *Materials Science in Semiconductor Processing* **2014**, *19*, 89-94. **IF = 1.761**
10. Mohammadi M., Bardajee G. R., Noroozi Pesyan, N., A novel method for the synthesis of benzothiazole heterocycles catalyzed by copper-diamsar complex loaded on SBA-15 in water media, *RSC Advances* **2014**, *4*, 62888-62894. **IF = 3.708**
11. Farahani B. V., Bardajee G. R., Rajabi F. H., Hooshyar Z., Molecular docking and spectroscopy study on the interaction of serum albumins with iron (III) diamine sarcophagine, *Australian Journal of Chemistry* **2015**, *68*, 999-1010. **IF = 1.644**