Curriculum Vitae

1. Personal Information

First Name	**Ghasem**	Address (home):	33 Katoozian Alley (East 30th), South Allameh Street, Saadat Abad, Postal Code: 1999700000, Tehran, Iran
Last Name	**Rezanejade Bardajee**		
Date of Birth	23 Aug 1977	Address (work):	Payame Noor Univ., Tehran, Iran
Place of Birth	Shiraz, Iran	Tel.	+98 21 88575258
ID	229-318273-8		**+98 912 288 5374**
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a. B. Sc. Degree (as a Top Student)

University of Shiraz, Shiraz, Iran	Pure Chemistry	GPA: 16.32/20	1995-1999

b. M.Sc. Degree (as a Top Student)

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

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

Supervisors:
Prof. Firouz Matloubi Moghaddam; Prof. Ali Pourjavadi

Ph.D. Thesis:
1. Investigation on some solid supported ($CuSO_4$, KF/Al_2O_3,…) organic reactions (protection, Michael addition, sulfoxide-elimination, γ-pyrone synthesis,…) with or without microwave assistance
2. 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 and spectroscopic properties of new functional dyes
c. Synthesis of bio-based superabsorbent hydrogels and their applications in drug delivery systems
d. 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 2015**
Payame Noor University	Nanomaterials, Polymer and Organic Synthesis	**Professor-2015 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., Probing the interaction of a new synthesized CdTe quantum dots with human serum albumin and bovine serum albumin by spectroscopic methods, *Materials Science and Engineering: C* **2016**, *62*, 806-815.
2. Bardajee G. R., Hooshyar Z., Fluorescence enhancement of glutathione capped CdTe/ZnS quantum dots by embedding into cationic starch for sensitive detection of rifampicin, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2017**, *173*, 144-150.
3. Hooshyar Z., Bardajee G. R., Dianatnejad N., Optical and structural properties of hydrophilic CdTe quantum dots in cationic starch polymeric matrix, *Starch/Stärke* **2016**, *68*, 213–219.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. Soleyman R., Bardajee G.R., Pourjavadi A., Varamesh A., Hydrolyzed salep/gelatin-g-polyacrylamide as a novel highly micro/nano-porous superabsorbent hydrogel: synthesis, optimization and investigation on swelling behavior, *Scientia Iranica* **2015**, *22*, 883-893.
11. Bardajee G. R., Hooshyar Z., Mizani F., Improving optical properties of CdTe quantum dots by a new multidentae biopolymer based on salep, *Materials Science in Semiconductor Processing* **2014**, *19*, 89-94.
12. 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.
13. 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.

14. Bardajee G. R., Microwave-assisted solvent-free synthesis of fluorescent naphthalimide dyes, *Dyes and Pigments* **2013**, *99*, 52-58.
15. Bardajee G. R., Malakooti R., Abtin I., Atashin H., Rostami I., Palladium Schiff-base complex loaded SBA-15 as a novel nanocatalyst for the synthesis of 2,3-disubstituted quinoxalines and pyridopyrazine derivatives, *Microporous and Mesoporous Materials* **2013**, *169*, 67-74.
16. Bardajee G. R., Hooshyar, Z., Jafarpour F., Antibacterial and optical properties of a new water soluble CdSe quantum dots coated by multidentate biopolymer, *Journal of Photochemistry and Photobiology A: Chemistry* **2013**, *252*, 46–52.
17. Bardajee G. R., Hooshyar Z., Khanjari M., Dye fluorescence quenching by newly synthesized silver nanoparticles, *Journal of Photochemistry and Photobiology A Chemistry* **2013**, *276*, 113-121.
18. Bardajee G. R., Hooshyar Z., Rastgo F., Kappa carrageenan-g-poly (acrylic acid)/SPION nanocomposite as a novel stimuli-sensitive drug delivery system, *Colloid and Polymer Science* **2013**, *291*, 2791-2803.
19. Bardajee G. R., Hooshyar Z., A novel biocompatible magnetic iron oxide nanoparticles/hydrogel based on poly (acrylic acid) grafted onto starch for controlled drug release, *Journal of Polymer Research* **2013**, *20*, 298-310.
20. Bardajee G. R., Hooshyar Z., Novel potentially biocompatible nanoporous hydrogel based on poly ((2-dimethylaminoethyl) methacrylate) grafted onto salep: synthesis, swelling behavior and drug release study, *Journal of Polymer Research* **2013**, *20*, 67–74.
21. Bardajee G. R., Hooshyar Z., Shahidi F. E., Synthesis and characterization of a novel Schiff-base/SBA-15 nanoadsorbent for removal of methylene blue from aqueous solutions, *International Journal of Environmental Science and Technology* **2014**, *11*, 4-15.
22. Bardajee G. R., Hooshyar Z., Optical properties of water soluble CdSe quantum dots modified by a novel biopolymer based on sodium alginate, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2013**, *114*, 622–626.
23. Bardajee G. R., Hooshyar Z., Rezanezhad H., Guerin G., Optical properties of water-soluble CdTe quantum dots passivated by a biopolymer based on poly((2-dimethylaminoethyl) methacrylate) grafted onto κ-carrageenan, *ACS Applied Materials and Interfaces* **2012**, *4*, 3517-3525.
24. Bardajee G. R., Hooshyar Z., Rezanezhad H., A novel and green biomaterial based silver nanocomposite hydrogel: Synthesis, characterization and antibacterial effect, *Journal of Inorganic Biochemistry* **2012**, *117*, 367–373.
25. Bardajee G. R., Hooshyar, Z., Zehtabi, F., Pourjavadi A., A superabsorbent hydrogel network based on poly ((2-dimethylaminoethyl) methacrylate) and sodium alginate obtained by gamma-radiation: Synthesis and characterization, *Iranian Polymer Journal* **2012**, *21*, 829–836.
26. Bardajee G. R., Hooshyar Z., Kabiri F., Preparation and investigation on swelling and drug delivery properties of a novel silver/salep-g-poly(acrylic acid) nanocomposite hydrogel, *Bulletin of the Korean Chemical Society* **2012**, *33*, 2635-2641.
27. Bardajee G. R., Hooshyar Z., Rostami I., Hydrophilic alginate based multidentate biopolymers for surface modification of CdS quantum dots, *Colloids and Surfaces B: Biointerfaces* **2011**, *88*, 202-207.
28. Bardajee G. R., Pourjavadi A., Ghavami S., Soleyman R., UV-prepared salep-based nanoporous hydrogel for controlled release of tetracycline hydrochloride in colon, *Journal of Photochemistry and Photobiology B: Biology* **2011**, *102*, 232-240.
29. Bardajee G. R., Vancaeyzeele C., Haley J. C., Alice Y. Li, Winnik M. A., Synthesis, characterization, and energy transfer studies of dye-labeled poly(butyl methacrylate) latex particles prepared by miniemulsion polymerization, *Polymer* **2007**, *48*, 5839-5849.
30. Lin W., Fritz K., Guerin G., Bardajee G. R., Winnik M. A., Highly luminescent lead sulfide nanocrystals in organic solvents and water through ligand exchange with poly(acrylic acid), Langmuir 2008, 24, 8215-8219.