

# Nader Taheri Qazvini

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## CONTACT INFORMATION

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## RESEARCH INTERESTS

- 1) Structure-property relation in biohybrid materials
- 2) Structure-dynamics relations in polymers, soft materials and living cells

## ACADEMIC EXPERIENCE

Jan 2019-present      Assistant Professor, *College of Engineering, University of South Carolina*  
Sep 2015-Dec 2018      Postdoctoral Researcher, *de Pablo Lab & Tirrell Lab, University of Chicago*  
Oct 2012-Oct 2014      Visiting Scientist, *Fredberg Lab, Harvard University*  
Jun 2011-Jan 2012      Visiting Scientist, *Mezzenga Lab, ETH-Zürich*  
Sep 2008-Oct 2012      Assistant Professor, *Biomaterials Research Center, University of Tehran*  
Sep 2007-Oct 2012      Assistant Professor, *School of Chemistry, University of Tehran*

## EDUCATION

Amirkabir University of Technology, Tehran, Iran, *Polymer Engineering*, Ph.D., 2006  
Amirkabir University of Technology, Tehran, Iran, *Polymer Engineering*, M.S., 1999  
Amirkabir University of Technology, Tehran, Iran, *Polymer Engineering*, B.S., 1996

## PATENT APPLICATIONS

J.J. de Pablo, **N. Taheri Qazvini**, M. Sadati, M. Tirrell, "Injectable Pastes Based on Oppositely Charged Polymer/Calcium Phosphate Hybrid Nanoparticles", U.S. non-Provisional Patent, filed March 2017.

J.J. de Pablo, J. Alfaro-Peraz, **N. Taheri Qazvini**, "Freeze-dried Formulations Including Nanoparticles and Methods of Freeze-drying", U.S. Provisional Patent, filed July 2017.

## PEER-REVIEWED PUBLICATIONS

### \* Corresponding Author †Equal Contribution

46. **N. Taheri Qazvini**, C. Zhao, K. Zane, M. Sadati, X. Ji, L. Zhang, W. Liu, W. Luo, Y. Feng, Y. Shen, W. Huang, M. Tirrell, T.C. He, J.J. de Pablo, "Novel 3D-printable materials derived from Graphene/Laponite/Amorphous Calcium Phosphate (GLP-ACP) for effective bone tissue engineering", **Submitted** (2018).

45. S. Naderizadeh, A. Shakeri, H. Mahdavi, N. Nikfarjam, **N. Taheri Qazvini**, "Hybrid Nanocomposite Films of Starch, Poly(vinyl alcohol) (PVA), Starch Nanocrystals (SNCs), and Montmorillonite (NaMMT): StructureProperties Relationship", *Starch* (2018) DOI: 10.1002/star.201800027.

44. C. Zhao, Z. Zeng, **N. Taheri Qazvini**, X. Yu, R. Zhang, S. Yan, Y. Shu, Y. Zhu, B. Xiao, E. Bishop, J. Lei, W. Zhang, C. Yang, K. Wu, Y. Wu, L. An, S. Huang, X. Ji, C. Gong, C. Yuan, L. Zhang, W. Liu, B. Huang, Y. Feng, B. Zhang, Z. Dai, L. Oliveira, A. Athiviraham, M.J. Lee, J.M. Wolf, G.A. Ameer, R.R. Reid, T.C. He, W. Huang, "A thermosensitive injectable graphene oxide-based composite scaffold is osteoinductive and osteoconductive in adipose-derived mesenchymal stem cells", *ACS Biomaterials Science & Engineering*, **4**, 2943-2955 (2018).

43. Y. Zou†, **N. Taheri Qazvini†**, K. Zane, M. Sadati, Q. Wei, J. Liao, J. Fan, D. Song, J. Liu, C. Ma, X. Qu, L. Chen, X. Yu, Z. Zhang, C. Zhao, Z. Zeng, R. Zhang, S. Yan, T. Wu, X. Wu, Y. Shu, Y. Li, W. Zhang, R.R. Reid, M.J. Lee, J.M. Wolf, M. Tirrell, T.-C. He, J.J. de Pablo, Z.-L. Deng, "Gelatin-Derived Graphene/Silicate Hybrid Materials Are Biocompatible and Synergistically Promote BMP9-Induced Osteogenic Differentiation of Mesenchymal Stem Cells", *ACS Applied Materials & Interfaces*, **19**, 15922-15932 (2017).

42. M. Sadati, H. Ramezani-Dakhel, W. Bu, E. Sevgen, Z. Liang, C. Erol, M. Rahimi, **N. Taheri Qazvini**, B. Lin, N. L. Abbott, B. Roux, M. L. Schlossman, J. J. de Pablo, "Molecular Structure

- of Canonical Liquid Crystal Interfaces”, *JACS*, **139**, 3841-3850 (2017).
41. R. Bafkari, **N. Taheri Qazvini**, H. Mahdavi, "Gelatin/Montmorillonite Biohybrid Films Prepared Via a Novel Photocrosslinking Method", *Journal of Iranian Chemical Society*, **14**, 2599-2606 (2017).
  40. M. Nazarzadeh, N. Nikfarjam, **N. Taheri Qazvini**, "Flocculation Properties of a Natural Polyampholyte: The Optimum Condition Toward Clay Suspensions", *Environmental Engineering Research*, **22**, 255-265 (2017).
  39. N. Nikfarjam, M. Hemmati, Y. Deng, **N. Taheri Qazvini\***, "Water Expandable Polystyrene Containing Cellulose Nanofibrils: Expansion Behavior and Morphology ", *Chemical Engineering Science*, **156**, 56-63 (2016).
  38. S.M. Mir, S.H. Jafari, H.A. Khonakdar, B. Krause, P. Pötschke, **N. Taheri Qazvini\***, "A promising approach to low electrical percolation threshold in PMMA nanocomposites by using MWCNT-PEO pre-dispersions", *Materials & Design*, **111**, 253-262 (2016).
  37. H. Nassira, A. Sánchez-Ferrer, J. Adamcik, S. Handschin, H. Mahdavi, **N. Taheri Qazvini\***, R. Mezzenga, "Gelatin–Graphene Nanocomposites with Ultralow Electrical Percolation Threshold", *Advanced Materials*, **28**, 6914–6920 (2016).
  36. M. Ghelichi, **N. Taheri Qazvini**, "Self-organization of hydrophobic-capped triblock copolymers with a polyelectrolyte midblock: a coarse-grained molecular dynamics simulation study", *Soft Matter*, **12**, 4611-4620 (2016).
  35. J. Park, J.H. Kim, D. Bi, J. Mitchel, **N. Taheri Qazvini**, K. Tantisira, C.-Y. Park, M. McGill, S. Kim, B. Gweon, J. Notbohm, R. Steward, Jr., S. Burger, S.H. Randell, A.T. Kho, D.T. Tambe, C. Hardin, S.A. Shore, E. Israel, D.A. Weitz, D.J. Tschumperlin, E.P. Henske, S.T. Weiss, M. Lisa Manning, J.P. Butler, J.M. Drazen, J.J. Fredberg, "Unjamming and cell shape in the asthmatic airway epithelium", *Nature Materials*, **14**, 1040-1048 (2015).
  34. N. Nikfarjam, M. Sabzi, Y. Deng, **N. Taheri Qazvini\***, "Water Expandable Polystyrene Using Crosslinked Starch Nanoparticle as Water Stabilizing Agent", *Industrial Engineering Chemistry Research*, **54**, 6627-6633 (2015).
  33. P. Makvandi, N. Nikfarjam, N. Sharifi Sanjani, **N. Taheri Qazvini\***, "The Effect of Silver Nanoparticle on the Properties of Poly(methyl methacrylate) Nanocomposite Network Made by In situ Photoiniferter-mediated Photopolymerization", *Bulletin of Materials Science*, **38**, 1625-1631 (2015).
  32. N. Nikfarjam, **N. Taheri Qazvini\***, Y. Deng, "Surfactant-Free Pickering Emulsion Polymerization of Styrene in w/o/w System Using Cellulose Nanofibrils", *European Polymer Journal*, **64**, 179-188 (2015).
  31. A. Ghadami, **N. Taheri Qazvini\***, N. Nikfarjam, "Ionic conductivity in gelatin-based solid electrolytes: The non-trivial role of nanoclay", *Journal of Materials Science and Technology*, **30**, 1096-1102 (2014).
  30. M. Sadati, A. Nourhani, J.J. Fredberg, **N. Taheri Qazvini**, "Glass-like dynamics in the cells and in cellular collectives", *WIREs: System Biology and Medicine*, **6**, 137-149 (2014).
  29. S. Pour-Esmaeil, **N. Taheri Qazvini\***, H. Mahdavi, "Interpenetrating polymer networks (IPN) based on gelatin/poly(ethylene glycol) dimethacrylate/clay nanocomposites: structure-properties relationship", *Materials Chemistry and Physics*, **143**, 1396-1403 (2014).
  28. N. Nikfarjam, **N. Taheri Qazvini\***, Y. Deng, "Crosslinked starch nanoparticles stabilized Pickering emulsion polymerization of styrene in w/o/w system", *Colloid and Polymer Science*, **292**, 599-612 (2014).
  27. K. Jeddi, K. Sarikhani, **N. Taheri Qazvini**, P. Chen, "Stabilizing lithium-sulfur batteries by a composite polymer electrolyte containing mesoporous silica particles", *Journal of Power Sources*, **245**, 656-662 (2014).
  26. F. Karimi, **N. Taheri Qazvini\***, R. Namivandi-Zanganeh "Fish gelatin/Laponite biohybrid

- elastic coacervates: A complexation kinetics-structure relationship study”, *International Journal of Biological Macromolecules*, **61**, 102-113 (2013).
25. M. Sadati, **N. Taheri Qazvini**, R. Krishnan, C.Y. Park, J.J. Fredberg, ”Collective migration and cell jamming”, *Differentiation*, **86**, 121-125 (2013).
24. E. Chehrazi, **N. Taheri Qazvini\***, ”Segmental dynamics in miscible polymer blend nanocomposites: The influence of geometry of nanoparticles”, *Iranian Polymer Journal* (Springer), **22**, 613-622 (2013).
23. M. Ghelichi, **N. Taheri Qazvini\***, S.H. Jafari, H.A. Khonakdar, Y. Farajollahi, C. Scheffler, ”Conformational, thermal, and ionic conductivity behavior of PEO in PEO/PMMA miscible blend: Investigating the effect of lithium salt”, *Journal of Applied Polymer Science*, **129**, 1868-1874 (2013).
22. M. Ghelichi, **N. Taheri Qazvini\***, S.H. Jafari, H.A. Khonakdar, ”Thermorheological Complexity of a Dynamically Asymmetric Miscible Blend: The Improving Role of Na<sup>+</sup>-MMT Nanoclay”, *Macromolecular Research*, **21**, 362-369 (2013).
21. K. Jeddi, **N. Taheri Qazvini**, D. Cangialosi, P. Chen, ”Correlation between segmental dynamics, glass transition and lithium ion conduction in poly (methyl methacrylate)/ionic liquid mixture”, *Journal of Macromolecular Science: Physics*, **52**, 590-603 (2013).
20. M.T. Angaji, A. Zamani Zinali, **N. Taheri Qazvini**. ”Study of physical, chemical and morphological alterations of smectite clay upon activation and functionalization via the acid treatment”, *Journal of Nano Science and Engineering*, **3**, 161-168 (2013).
19. **N. Taheri Qazvini\***, S. Bolisetty, J. Adamcik, R. Mezzenga, ”Self-Healing Gelatin/Sodium Montmorillonite Bio-hybrid Coacervates: Structural and Rheological Characterization”, *Biomacromolecules*, **13**, 2136-2147 (2012).
18. M. Ghelichi, **N. Taheri Qazvini\***, S.H. Jafari, H.A. Khonakdar, U. Reuter, ”Nanoclay Dispersion in a Miscible Blend: An Assessment through Rheological Analysis”, *Journal of Polymer Research*, **19**, 9830-8 (2012).
17. **N. Taheri Qazvini\***, S. Zinatloo, ”Synthesis and Characterization of Gelatin Nanoparticles using CDI/NHS as a Non-toxic Cross-linking System”, *J. of Materials Science: Materials in Medicine*, **22**, 63-69 (2011).
16. **N. Taheri Qazvini\***, E. Chehrazi, ”Glass Transition Behavior and Dynamic Fragility of PMMA/SAN Miscible Blend-Clay Nanocomposites”, *J. of Macromolecular Science: Physics*, **50**, 2165-2177 (2011).
15. M. Ghelichi, **N. Taheri Qazvini\***, S.H. Jafari, H.A. Khonakdar, ”Partial Restoring of Thermorheological Simplicity and Terminal Dynamics Behavior of PEO-PMMA in the Presence of Nanoparticles”, *AIP Conf. Proceedings*, **1375**, 219-223 (2011). DOI: 10.1063/1.3604481
14. K. Jeddi, **N. Taheri Qazvini\***, S.H. Jafari, H.A. Khonakdar, J. Seifi, U. Reuter, ”Investigating the effect of nano-layered silicates on blend segmental dynamics and minor component relaxation behavior in PEO/PMMA miscible blends”, *J. Polymer Science: Part B: Polymer Physics*, **49**, 318 (2011).
13. K. Jeddi, **N. Taheri Qazvini\***, S.H. Jafari, H.A. Khonakdar, ”Enhanced Ionic Conductivity in PEO/PMMA Glassy Miscible Blends: Role of Nano-Confinement of Minority Component Chains”, *J. Polymer Science: Part B: Polymer Physics*, **48**, 2065 (2010).
12. **N. Taheri Qazvini\***, R. Norouzian, ”From Inverse Intercalated to Exfoliated Morphology in Water Expandable Polystyrene-Organoclay Nanocomposites: Role of Surface Characteristics of Layered Silicates”, *J. Polymer Engineering*, **30**, 461-478 (2010).
11. R. Norouzian, **N. Taheri Qazvini\***, N. Sharifi Sanjani, ”Water Expandable Polystyrene-Organoclay Nanocomposites: Role of Clay and its Dispersion State”, *Journal of Macromolecular Science: Physics*, **48**, 955 (2009).
10. S. Mohammadi, N. Sharifi Sanjani, **N. Taheri Qazvini**, M. Barari, ”Preparation of Nylon 6-

- organoclay nanocomposites via in-situ polymerization and investigation of crystalline and thermal properties”, *J. Nanoscience Nanotechnology*, **9**, 3959 (2009).
9. H. Mahdavi, M. Sadeghzadeh, **N. Taheri Qazvini**, ”Phase Behavior Study of Poly(N-tertbutylacrylamide-coacrylamide)in the Mixture of Water–Methanol: The Role of Polymer–Nonsolvent Second-Order Interactions”, *J. Polymer Science: Part B: Polymer Physics*, **47**, 455 (2009).
  8. **N. Taheri Qazvini\***, N. Mohammadi, ”Segmental Dynamics in *net*-poly(methyl methacrylate)-*co*-poly(*n*-butyl acrylate) Copolymer Networks”, *Journal of Macromolecular Science: Physics*, **47**, 1161 (2008).
  7. **N. Taheri Qazvini**, N. Mohammadi, ”Microscopic Dynamics of Polystyrene Reactive Blends: Comparison of Unsaturated Polyester Resin and High Impact Polystyrene”, *Journal of Applied Polymer Science*, **106**, 498 (2007).
  6. **N. Taheri Qazvini**, N. Mohammadi, ”Dynamic Mechanical Analysis of Segmental Relaxation in Unsaturated Polyester Resin Networks: Effect of Styrene Content”, *Polymer*, **46**, 9088 (2005).
  5. M. Sadati, N. Mohammadi, **N. Taheri Qazvini**, N. Tahmasebi, S. Koopahi, ”Evaluation of the Scratch Resistance of an Acrylic-Melamine Clear Coat Based on its Fracture Energy”, *Prog. Org. Coatings*, **53**, 23 (2005).
  4. A. Sharif, N. Mohammadi, **N. Taheri Qazvini**, ”The Modification of Interphase Layer and Adhesion: Tuning and Predictability”, *Polymer Surface Modification: Relevance to Adhesion*, K. L. Mittal Ed., Vol. 3, pp: 447-487, VSP 2004 (Book Chapter).
  3. **N. Taheri Qazvini**, N. Mohammadi, R. Bagheri, A. Jalali, A. Varasteh, ”The Fracture Behavior of Rubber Vulcanizates: I. Single Component vs. Blend Systems”, *Rubber Chem. Technol.*, **75**, 77 (2002).
  2. **N. Taheri Qazvini**, N. Mohammadi, S.R. Ghaffarian, H. Assempour, M. Haghghat-Kish, ”Quantitative Orientational Characterization of Low-density Polyethylene Blown Films by X-ray and Birefringence”, *Iranian Polymer J.*, **11**, 359 (2002).
  1. **N. Taheri [Qazvini]**, N. Mohammadi, N. Shahidi, ”An Automatic Instrument for Measurement of Interfacial Adhesion of Polymeric Coatings”, *Polymer Testing*, **19**, 959 (2000).

TEACHING  
EXPERIENCE

Polymer Chemistry Courses at the University of Tehran:  
*Physical Chemistry of Polymers* (Fall 2008, 2009, 2010 and Spring 2012).  
*Fundamentals of Polymer Chemistry + Lab* (undergrad) (Spring 2006, 2007, 2008, 2009, and 2010).  
*Polymer Technology* (Fall 2006, 2007, 2008, 2009, and 2010).  
*Structure-Property Relationship of Polymers* (Spring 2008 and 2010).  
*Characterization of Nano-Structures* (Spring 2007, 2012).

Polymer Engineering Courses at Amirkabir University of Technology (Mahshahr Campus):  
*Physical Chemistry of Polymers* (undergrad and graduate) (Fall 2008, 2009, 2010).  
*Polymer Composites Technology* (undergrad) (Spring 2008, 2009, 2010).

THESES SUPERVISED

27. Gelatin-graphene bio-nanocomposites: Preparation and structure-properties relationship (SPR) investigations, H. Nassira, *Ph.D. thesis*, June 2016.
26. Synthesis and Structure Property Relationship Investigation of Fire Retardant Polystyrene/nanoclay Water Expandable Nanocomposite, N. Nikfarjam, *Ph.D. thesis*, Jan. 2014.
25. Synthesis and Structure-Property Relationships (SPR) of polyolefin/clay nanocomposites by in-situ polymerization with montmorillonite-intercalated metallocene, Amir Zamani Zeinali, *Ph.D. thesis*, Jan. 2014.
24. Complex coacervation of gelatin and nanoclay: A fundamental study, F. Karimi, Sep. 2012. (MSc)
23. Nano-hybrid microcapsules via complex coacervation of gelatin and nanoclay, R. Namivandi

- Zanganeh, Sep. 2012. (MSc)
22. Ionic Conductivity in Nanocomposite Solid Electrolytes (NCSE) based on Gelatin, Z. Zarghami, Sep. 2012. (MSc)
  21. Photo cross-linked gelatin based nanocomposites, R. Bafkari, Sep. 2012. (MSc)
  20. Structure-Properties Relationships in Silver/(meth)Acrylate Polymers Nanocomposites (Dental Materials) Synthesized via Living Radical Photo-polymerization, P. Makvandi, Sep. 2012. (MSc)
  19. Effect of Nanoparticle Characteristics and Chemical Cross-linking Agent on the Performance of Gelatin based Nanocomposites Solid Electrolytes, Ali Qadami, Sep. 2012. (MSc)
  18. Structure-properties relationship in nanocomposites based on polypyrrole, Sajad Rezaie, Jan 2012. (MSc)
  17. Ionic conductivity of poly(ethylene oxide)-based solid polymer electrolytes: The effect of nature of nano-confinement, Y. Farajollahi, Jan. 2012. (MSc)
  16. Study of structure-properties relationships of nanocomposite films based on fish gelatin, F. Refahi, Jan. 2012. (MSc)
  15. Thermorheological and Terminal Relaxation behavior of PEO/PMMA Miscible Polymer Blends: Effect of Nanoparticles, M. Ghelichi, Sep. 2011. (MSc)
  14. Ionic conductivity in polymer nanocomposites: effect of confinement geometry, Z. Shakouri, Jan. 2011. (MSc)
  13. Computer simulation of gelation process of gelatin: Effect of nanoparticels, A. Shamloo, Jan. 2011. (MSc)
  12. Adsorption of amphoteric polyelectrolytes on charged surfaces: A new class of biocompatible flocculants, M. Nazarzadeh, M. Sc. Thesis, Sep. 2011. (MSc)
  11. Segmental dynamics of polymer blends confined to nanoporous structures, M. Sc. thesis, R. Rakhshaei, Oct. 2010. (MSc)
  10. Gelatin based interpenetrating polymer networks (IPN) nanocomposites: Structure-property relationship investigation, M. Sc. thesis, S. Pour-Esameel, Oct. 2010. (MSc)
  9. Preparation and investigation of the properties of gelatin-carbon nanotubes biocompatible nanocomposites, M. Sc. thesis, H. Nasira, Oct. 2010. (MSc)
  8. Effect of cross-linking agent on stability and efficiency of gelatin based nanoparticles, M. Sc. thesis, S. Zinatloo, Oct. 2010. (MSc)
  7. Removal organic dye pollutant from contaminated water by chitosan as a natural polymer adsorbant, M. Sc. thesis, E. Farhangnia, Feb. 2010. (MSc)
  6. Segmental dynamics and glass transition of miscible polymer blends nanocomposites: Role of nano-layered silicates, M. Sc. thesis, K. Jeddi, Feb. 2010. (MSc)
  5. Structure-property relationship in random copolymer-homopolymer blends nanocomposites: Effect of geometry and surface properties of nano-particle, M. Sc. thesis, E. Chehrazi, Dec. 2009. (MSc)
  4. Gelatin based networks nanocomposites: Effect of chemical crosslinking agent, M.Sc. thesis, Z. Zanganeh, Sep. 2009. (MSc)
  3. Structural-property relationship in polylactide blends nanocomposites, M.Sc. thesis, A. Bayat, Sep. 2009. (MSc)
  2. Glass transition in polymer nanocomposites: Impacts of crosslinking and nanoparticles on the characteristic length scale of segmental motions, M.Sc. thesis, Sh. Asiaee-Sahne, Feb. 2009. (MSc)
  1. Synthesis of expandable and flame-resistant nanocomposites containing water as blowing agent, M.Sc. thesis, R. S. Norouzain-Amiri, Feb. 2009. (MSc)

#### ALUMNI

*PhD students (3)*: Nasser Nikfarjam (Assistant Prof., Institute for Advanced Studies in Basic Sciences, Zanjan, Iran), Hoda Nassira (Assistant Prof., Zanjan University, Iran), Amir Zamani-Zeinali

(Iran Petrochemical Company)

*MS students (28)*: Kazem Jeddi, PhD (R&D Scientist at IPEX Technologies Inc, Canada), Mahdi Ghelichi, PhD (Postdoctoral Fellow, University of British Columbia, Canada), Sharareh Asiaee-Sahneh, PhD (University of Freiburg, Germany), Rafiehsadat Norouzian-Amiri, (PhD student, University of Mazandaran, Iran), Akhtar Bayat, PhD (University of Alberta, Canada), Zeynab Zangane (Industry, Iran), Ehsan Chehrazhi, (PhD student, Tarbiat Modarres University, Iran), Elham Farhangnia (Industry, Iran), Sahar Zinatloo (PhD student, University of Kashan, Iran), Sajad Pour-Esmaeil (PhD student, University of Tehran, Iran), Rasoul Rakhshaei (PhD student, University of Tabriz, Iran), Zahra Shakouri (PhD student, Amirkabir University of Technology, Iran), Yaser Farajollahi (Industry, Iran), Fatemeh Karimi (PhD student, Melbourne University, Australia), Farnaz Refahi (Industry, Iran), Mohammad Nazarzadeh (PhD student, University of Mashhad, Iran), Zabihollah Zarghami (PhD student, University of Kashan, Iran), Reza Bafkari, PhD (University of Tehran, Iran), Pouyan Makvandi, (PhD student, University of Mazandaran, Iran), Ali Ghadami (Industry, Iran), Sajad Rezaee (Industry, Iran), Rashin Namivandi-Zanganeh (PhD student, Australia), Azar Shamloo (PhD student, University of Tehran, Iran), Soodeh Soleiman-Farhani (Industry, Iran), Seyed Mohammad Mir (Industry, Iran), Sara Naderizadeh (PhD student, Italian Institute of Technology, Italy), Bita Mohammadi (Industry, Iran), Kimia Nankali (Industry, Iran)

SERVICE

Academy of Persian Language and Literature (Polymer Terminology Committee), Sep. 2007-present.  
Head of Polymer Division, College of Science, University of Tehran Sep. 2009-Jan. 2011  
Member of Faculty Search Committee (2009-2012)  
Polymer Science graduate admissions committee (2007-2012)  
Reviewer for the Iranian National Science Foundation, Materials division (2009-2012)  
Applied Chemistry Undergraduate Advisor (2007-2011)  
Polymer Engineering Undergraduate Advisor (2007-2010)  
Ad-hoc reviewer for polymer, materials science, physics and chemistry journals

GRADUATE  
STUDENTS  
COMMITTEES

Abbas Rezaei Shirinabad, Mohammad Madani, Mohammad Mahdi Hasani Sadrabadi, Mojtaba Enayati, Zahed Shami, Somayeh Zamani

AWARDS

3<sup>rd</sup> Innovation prize, 9th Khwarizmi International Award, Tehran, Feb 1997 (Shared with Nima Shahidi and Naser Mohammadi)  
Best Paper Award, 7th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, Sep 2005  
Best Poster Award, International Congress on Nanoscience and Nanotechnology, Shiraz, Iran, Nov 2010  
Best Teaching award, College of Science, University of Tehran, April 2008.