

بنام خداوند جان و خرد

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**برای مشاهده زندگی
نامه به زبان فارسی
اینجا کلیک کنید**

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CAREER PROFILE

- Professor and Faculty Member of Polymer and Biomedical Engineering Departments
- Amirkabir University of Technology (Tehran Polytechnic)
- Adjunct Professor of Tehran University of Medical Science
- Editor-in-Chief, Progress in Biomaterials (PIB) - Springer
- President of Iran Polymer Society (IPS)

- **H index : 28 (Scopus and ISI)**
- **H index: 32 (Google Scholar)**
- **I10-index: 99(Google Scholar)**

EDUCATIONAL INFORMATION:

- *Ferdowsi University*, Mashhad, Iran, B.Sc. in Chemistry, 1969-1972.
- *Amirkabir University of Technology* (Tehran Polytechnic), Tehran, Iran, MSc in Polymer Science and Technology, 1976-1978.
- *New South Wales University*, Sydney, Australia, PhD in Chemical Engineering, 1990-1994.

POSITIONS HELD:

- Kerman University, *Research Associate and Lecturer*, 1979-1985.
- Iranian Journal of Polymer Science & Technology (ISSN: 1016-3255, Persian Edition), *Editor-in-Chief*, since 1985.
- Iranian Polymer Journal (ISSN: 1026-1265, English Edition), *Editor-in-Chief*, 1992-2011. (A Distinguished International Journal, 7th National Festival Award, 2007).
- Laser Research Center of Iran, *Research Associate*, since 1991.
- Amirkabir University of Technology, *Member of Polymer Engineering Faculty*, since 1994.
- Iran Cochlear Implant Center (ICIC), *Directory of Board*, since 1998.
- Iran Polymer and Petrochemical Institute (IPPI), *President*, 1999- 2010.
- Progress in Biomaterials, (Springer) *Editor-in-Chief*, Since 2011.
- **President** of Islamic Azad University (IAU), Since 2013.

COURSES TAUGHT:

Amirkabir University of Technology (Tehran Polytechnic), Faculties of Biomedical Engineering/Polymer Engineering and Iran Polymer and Petrochemical Institute (IPPI):

- Methods & Principles of Tissue Engineering.
- Biocompatibility Issues.
- Surface Modification of Polymers, New Techniques.
- New Techniques for Biomaterials Surface Characterization.
- Polymers in Medicine.

SCHOLARSHIP & AWARDS:

- MScAmirkabir University of Technology (Tehran Polytechnic), Tehran, Iran, **1976-1978**.
- Ph.D New South Wales University, Sydney, Australia, **1991-1994**.
- The 8th Kharazmi International Festival Award (Ministry of Science and Higher Education of Iran), **1994**.
- Distinguished Professor of Amirkabir University of Technology, **2004**.
- The 9th Razi Research Festival on Medical Sciences Award, **2004**.
- Distinguished Professor of Iran Polymer and Petrochemical Institute, **2005**.
- The 12th Razi Research Festival on Medical Sciences Award, **2007**.
- National Distinguished Director among Iranian Research Centers, the 7th National Research Festival Award, **2007**.
- The 13th Razi Research Festival on Medical Sciences Award, **2008**.
- Distinguished Professor of Iran Polymer and Petrochemical Institute, **2008**.
- National Distinguished Professor, **2008**.
- Distinguished Professor of Amirkabir University of Technology (Tehran Polytechnic), **2012**.
- Top Choice of the Tenth National Festival of Top Ideas – Research & Technology Week, Tehran, November **2012**.
- **Distinguished National Researcher in Bioengineering, Biotechnology Headquarter, NIGEB, March 2013.**

NATIONAL RESEARCH COUNCIL (NRC) and /or IRAN NATIONAL SCIENCE FUNDATION PROJECTS:

- Design and Manufacturing of Polymeric Biomaterials, *in vitro* and *in vivo* Assays, National Research Council(NRC), Project No. 5862, **1998-2001**.
- Design and Fabrication of Cochlear Implant, *in vitro* and *in vivo* Assays, National Research Council(NRC), Project No. 0168, **1998-2001**.
- Design and Fabrication of Wound dressing based on Chitosan in Semi-industrial Scale, **2011- 2-12**, Grant No.89001749, Iran National Science Foundation (INSF).
- Design and Fabrication of Novel Nano -structure Scaffolds Based on Natural Polymers for Treatment of Diabetic Ulcer Using Electrospinning Method (INSF).
- Biocompatible Polymers for Tissue Engineering Applications, **2014**.

AREA OF INTEREST:

- Polymeric Biomaterials Design and Preparation.
- Biopolymers used as Scaffold for Tissue Engineering.
- Tissue Engineering for Bone, Cartilage and Skin Regeneration (in vivo and in vitro Assays).
- Surface Modification of Polymers Using Laser or Plasma Systems.
- Surface Characterization of Biomaterials Using Novel Techniques.
- Drug Delivery Systems using Biodegradable Polymers.
- Injectable and Biodegradable Systems, as in situ forming for releasing of drugs.
- Evaluation of Blood and Tissue/Material Interactions (in vivo and in vitro Assays).
- Evaluation of the Biocompatibility of Polymeric Biomaterials (in vivo and in vitro Assays).

SCIENTIFIC SOCIETY MEMBER:

1. President, Iran Polymer Society (Founder of the Society and member of Organizing Committee and Board, 1998-2014).
2. Iran Chemistry & Chemical Engineering Society (Active Member).
3. Society for Biomaterials, USA (Active Member).
4. Controlled Release Society of Iran-CRSI (Active Member).
5. Iran National Science Foundation (INSF).

JOURNALS REVIEWER:

1. Artificial Organs, Published by John Wiley.
2. Journal Biochimica et Biophysica Acta (BBA - Biomembranes) Published by Elsevier.
3. Journal of Applied Polymer Science (English), Published by John Wiley & Sons, Inc.
4. Iranian Polymer Journal (English), Published by IPPI Press.
5. Biomacromolecules, Published by ACS Publications.
6. Iranian Journal of Chemical Engineering; (English), Published by the Iranian Association of Chemical Engineers (IACHE).
7. Iranian Journal of Polymer Science & Technology (Persian), Published by the Iran Polymer Society.
8. Iranian Journal of Chemistry & Chemical Engineering (English & Persian), Published by the Jihad Daneshgahi.
9. Journal of Iranian Medical Engineering Society, (Persian).
10. Journal of the Iranian Chemical Society (JICS), Published by Iranian Chemical Society (English).
11. Carbohydrate Polymers, Published by Elsevier.
12. Journal of Biomedical Materials Research, Part A, Published by John Wiley.
13. Green Chemistry Letters and Reviews, Published by Taylor and Francis.
14. Journal of Nanomaterials, Hindawi Publishing Corporation.
15. Journal of Biomaterials Applications, published by Sage publications.
16. Materials Science and Engineering C, published by Elsevier.
17. ACS Applied Materials & Interfaces, ACS publication.
18. European Journal of Medicinal Chemistry, published by Elsevier.
19. Journal of Industrial and Engineering Chemistry, published by Elsevier.

JOURNALS EDITORIAL BOARD/ Editor- in- Chief

1. Artificial Organs, Published by John Wiley, (Editorial Board).
2. Journal of the Iranian Chemical Society (JICS) published by Springer, (Editorial Board).
3. Progress in Biomaterials, published by Springer (Editor- in-Chief, since 2011).
4. Iranian Polymer Journal, published by IPPI Press (Editor- in-Chief 1992- 2011).
5. Iranian Journal of Polymer Science and Technology (Persian edition) published by IPPI Press (Editor- in-Chief since 1989).
6. Laser in Medicine, published by Iranian Center for Medical Laser (ICML), (Editorial Board).

LIST OF PUBLICATIONS:

I. JOURNAL PAPERS:

1. Mohammad A. Semsarzadeh, Abdol R. Lotfali and **Hamid Mirzadeh**, Jute Reinforced Polyester Structures, *Polymer Composites*, 5 (2) 141-142, **1984**.
2. Mohammad A. Semsarzadeh, **Hamid Mirzadeh** and Abdol R. Lotfali, Unsaturated Polyester Resin Bulk Reinforcing by Jute Fibers, *Iranian Journal of Polymer Science and Technology*, 2 (2) 94-97, **1989**.
3. **Hamid Mirzadeh**, A.A. Katbab, R.P. Burford, CO₂ – Pulsed Laser Induced Surface Grafting of Acrylamide onto Ethylene-Propylene Rubber (EPR), Part I, *Radiation Physics and Chemistry*, 41 (3) 507-519, **1993**.
4. **Hamid Mirzadeh**, A.A. Katbab, R.P. Burford, CO₂ – Pulsed Laser Induced Surface Grafting of Acrylamide onto Ethylene-Propylene Rubber (EPR), Part II, *Radiation Physics and Chemistry*, 42 (1-3) 53-56, **1993**.
5. **Hamid Mirzadeh**, M.T. Khorasani, A.A. Katbab, R.P. Burford, Surface Modification of EPR as Biomaterial by Laser Induced Graft Copolymerization of AAm, HEMA, NVP, I: AAm, *Iranian Journal of Polymer Science and Technology*, 6 (1) 4-16, **1993**.
6. **Hamid Mirzadeh**, A.A. Katbab, M.T. Khorasani, R.P. Burford, CO₂ – Laser Induced Surface Grafting of HEMA and NVP onto Ethylene-Propylene Rubber as Biocompatible Material, *Angewandte Makromolekulare Chemie*, 218 () 23-40, **1994**.
7. **Hamid Mirzadeh**, M.T. Khorasani, A.A. Katbab, R.P. Burford, Z. Soheili, A. Golestani, B. Goliaei, Biocompatibility Evaluation of Laser Induced AAm and HEMA Grafted EPR: I-*in vitro* Study, *Clinical Materials*, 16 (4) 177-187, **1994**.
8. **Hamid Mirzadeh**, A.A. Katbab, M.T. Khorasani, R.P. Burford, Surface Modification of EPR as Biomaterial by Laser Induced Graft Copolymerization of AAm, HEMA and NVP: II-HEMA and NVP, *Iranian Journal of Polymer Science and Technology*, 7 (3) 160-173, **1994**.
9. **Hamid Mirzadeh**, A.A. Katbab, R.P. Burford, CO₂ – Laser Graft Copolymerization of HEMA and NVP onto Ethylene-Propylene Rubber (EPR) as Biomaterial- (III), *Radiation Physics and Chemistry*, 46 (4-6) 859-862, **1995**.
10. **Hamid Mirzadeh**, A.A. Katbab, M.T. Khorasani, R.P. Burford, E. Gorgin, A. Golestani, Cell Attachment to Laser Induced AAm- and HEMA-Grafted Ethylene-Propylene Rubber as Biomaterial: *in vivo* Study, *Biomaterials*, 16 (8) 641- 648, **1995**.
11. Mohammad Khorasani, **Hamid Mirzadeh** and Peter Sammes, PDMS Surface Modification by Laser Irradiation: A Novel Technique for the Preparation of Blood Compatible Polymers, *Iranian Journal of Polymer Science and Technology*, 8 (2) 77-86, **1995**.

12. **Hamid Mirzadeh**, Ahmad-Reza Ekbatani and Ali-Asghar Katbab, Surface Modification of Ethylene Propylene Rubber by Laser Grafting of Acrylic Acid, *Iranian Polymer Journal*, 5 (4) 225-230, **1996**.
13. Mohammad Khorasani, **Hamid Mirzadeh** and Peter Sammesl, Laser Induced Surface Modification of PDMS as a Super- hydrophobic Material, *Radiation Physics and Chemistry*, 47 (6) 881-888, **1996**.
14. **H. Mirzadeh**, The Present Status of Iran's Natural Gas Industry and its Importance in Country's Future Development Programming, *Iranian Journal of Polymer Science and Technology*, 9 (2) 121-128, **1996**.
15. **Hamid Mirzadeh** and N.Zargham, Report on the Global Knowledge' 97, Knowledge for Development in the Information Age, *Rahyaft*, 16 (summer & autumn), 153-156, **1997**.
16. Mohammad Khorasani, **Hamid Mirzadeh** and Peter Sammes, Polydimethylsiloxane Surface Modification by Laser Irradiation: A Novel Technique for the Preparation of Blood Compatible Materials, Surface Modification Technologies X, the Institute of materials, London, T.S. Sudarshan (Ed.), pp. 499-507, **1997**.
17. **Hamid Mirzadeh**, Mohammad Khorasani and Peter Sammes, Laser Surface Modification of Polymers: A Novel Technique for the Preparation of Blood Compatible Materials- (II) *in vitro* Assay, *Iranian Polymer Journal*, 7 (1) 5-13, **1998**.
18. M. Rezai Darvishi, **Hamid Mirzadeh** and M. Mehrabzadeh, Preparation and Investigation of Physical and Mechanical Properties of Biocompatible Blend Based on PDMS/PHEMA, *Iranian Journal of Polymer Science and Technology*, 11 (3) 155-162, **1998**.
19. M. T. Khorasania, **Hamid Mirzadeh** and P. G. Sammes, Laser Surface Modification of Polymers to Improve Biocompatibility: HEMA Grafted PDMS, *in vitro* Assay-III, *Radiation Physics and Chemistry*, 55 (5-6) 685-689, **1999**.
20. Mahrokh Dadsetan, **Hamid Mirzadeh**, Naser Sharifi-Sanjani, Effect of CO₂ Laser Radiation on the Surface Properties of Polyethylene Terephthalate, *Radiation Physics and Chemistry*, 56 (5-6) 597-604, **1999**.
21. Mahrokh Dadsetan, **Hamid Mirzadeh**, Naser Sharifi-Sanjani, Evaluation of the Excimer and CO₂ Laser Effects on the Surface Properties of Polyethylene Terephthalate, *Iranian Journal of Polymer Science and Technology*, 12 (1) 3-12, **1999**.
22. Mahrokh Dadsetan, **Hamid Mirzadeh**, Naser Sharifi-Sanjani and Pirouz Salehian, IR Laser Surface Modification of Polyethylene Terephthalate as Biomaterial, *Processing and Fabrication of Advanced Materials VIII*, Singapore, 221-229, **1999**.
23. Mahrokh Dadsetan, **Hamid Mirzadeh**, Naser Sharifi-Sanjani, Surface Modification of PET by CO₂ Laser Graft Copolymerization of Acrylamide, *Journal of Applied Polymer Science*, 76 (3) 401-407, **2000**.

24. **Hamid Mirzadeh**, M. Ali Mohagheghi, Hossein Ahrnadi, Hamid Mirkhani, Saeed Amanpour and Pirooz Salehian, Cartilage Tissue Engineering for Ear as in Rabbit Model with Perforated Polyurethane: *In-vivo* Assay, *Iranian Polymer Journal*, 9 (2) 73-80, **2000**.
25. N. Sheikh, A.A. Katbab and **Hamid Mirzadeh**, Isocyanate-Terminated Urethane Prepolymer as Bioadhesive Material: Synthesis and Characterization, *International Journal of Adhesion & Adhesives*, 20 (4) 299-304, **2000**.
26. Fateme Shokrolahi, **Hamid Mirzadeh** and M. T. Khorasania, Determination of Crosslinking Density of Polydimethylsiloxane Network by Calorimetry and its Comparison with Equilibrium Swelling Method, *Iranian Journal of Polymer Science and Technology*, 12 (4) 221-227, **2000**.
27. M.R. Jafari, **Hamid Mirzadeh**, Y. Eslami and H. Amini, Manufacturing of a Polymeric Ocular Prosthesis for Therapy of Glaucoma, *Iranian Journal of Polymer Science and Technology*, 13 (1) 3-11, **2000**.
28. Mahrokh Dadsetan, **Hamid Mirzadeh** and Naser Sharifi-Sanjani, IR Laser Surface Modification of Polyethylene Terephthalate as a Biomaterial, *Iranian Polymer Journal*, 9 (4) 203-210, **2000**.
29. N. Sheikh, **Hamid Mirzadeh**, A.A. Katbab, P. Salehian, M. Daliri , S. Amanpour, Isocyanate-terminated Urethane Prepolymer as Bioadhesive Material: Evaluation of Bioadhesion and Biocompatibility, *in vitro* and *in vivo* assays, *Journal of Biomaterials Science, Polymer Edition*, 12 (7) 707-734, **2001**.
30. M. Dadsetan, **Hamid Mirzadeh**, N. Sharifi-Sanjani and P. Salehian, *in vitro* Studies of Platelet Adhesion on the Laser Treated Polyethylene Terephthalate Surface, *Journal of Biomedical Materials Research*, 54 (4) 540-546, **2001**.
31. M Dadsetan, **Hamid Mirzadeh**, N. Sharifi-Sanjani and M. Daliri, Cell Behavior on Laser Surface- Modified PET *in vitro*, *Journal of Biomedical Materials Research*, 57 (2) 183-189, **2001**.
32. Nasrin Sheikh, **Hamid Mirzadeh** and Ali Akbar Katbab, Reactive Ester –Urethane Prepolymer as Bioadhesive: Synthesis and Evaluation, *Iranian Polymer Journal*, 10 (1) 3-7, **2001**.
33. Oleg Olegovich Nikolaev, Vladislav Borisovich Urhanov, Vladislav Pavlovich Britov, Alexander Dmitrievich Babaev, Valeri Vladimirovich Bogdanov and **Hamid Mirzadeh**, A thermoplastic Rubber Composition for Medical Purposes, *Iranian Polymer Journal*, 10 (1) 9-14, **2001** .
34. Farhang Abbasi, **Hamid Mirzadeh** and Ali-Asgar Katbab, Modification of Polysiloxane Polymers for Biomedical Applications: A Review, *Polymer International*, 50 (12) 1279-1287, **2001**.
35. Majid Ghiass, Bahram Dabir, Manouchehr Nikazar, Alejandro D. Rey and **Hamid Mirzadeh**, Monte Carlo Simulation of Non-Linear Free Radical Polymerization Using a Percolation Kinetic Gelation Model (I): Free Radical Homopolymerization, *Iranian Polymer Journal*, 10 (5) 305-313, **2001**.

36. F. Abbasi, **Hamid Mirzadeh** and A. A. Katbab, Sequential Interpenetrating Polymer Networks of Poly (2-hydroxyethyl methacrylate) and Polydimethylsiloxane, *Journal of Applied Polymer Science*, 85 (9) 1825-1813, **2002**.
37. F. Abbasi, **Hamid Mirzadeh** and A. A. Katbab, Comparison of Viscoelastic Properties of PDMS/PHEMA IPN's with Their Physical Blends, *Journal of Applied Polymer Science*, 86 (14) 3480-3485, **2002**.
38. **Hamid Mirzadeh**, M. Dadsetan and N. Sharifi-Sanjani, Platelet Adhesion on Laser Induced Acrylic Acid Grafted Polyethylene Terephthalate, *Journal of Applied Polymer Science*, 86 (13) 3191-3196, **2002**.
39. Nakisa Yaghobi, **Hamid Mirzadeh** and Farzin Hormozi, Optimization of Chitin Isolation from Shrimp Shells: Study of Parameters influence on Chitin Deacetylation Reaction and Biocompatibility Evaluation (*in vitro*), *Iranian Journal of Polymer Science and Technology*, 15 (1)55-63, **2002**.
40. **Hamid Mirzadeh**, Nakisa Yaghobi, Saeed Amanpour, Hossein Ahmadi, M. Ali Mohagheghi and Farzin Hormozi, Preparation of Chitosan Derived from Shrimp's Shell of Persian Gulf as a Blood Hemostasis Agent: *in vivo*, *Iranian Polymer Journal*, 11 (1) 63-68, **2002**.
41. S. Kheirandish, E. Jabbari and **Hamid Mirzadeh**, et.al, Effect of Hydrogel content on Properties of a Composites Based on RTV Silicone Rubber on Matrix and Crosslinked Poly (acrylic acid) Particles as the Dispersed Phase, *Iranian Journal of Polymer Science and Technology*, 15 (1) 13-21, **2002**.
42. Farhang Abbasi, **Hamid Mirzadeh** and Ali-Asgar Katbab, Bulk and Surface Modification of Silicon Rubber for Biomedical Applications, *Polymer International*, 51 (10) 882-888, **2002**.
43. **Hamid Mirzadeh**, Fateme Shokrolahi and Morteza Daliri, Effect of Silicone Rubber Crosslink Density on Fibroblast Cells Behavior: *in vitro*, *Journal of Biomedical Materials Research*, 67A (3) 727-732, **2003**.
44. D. Fallahi, **Hamid Mirzadeh** and M. T. Khorasani, Physical, Mechanical and Biocompatibility Evaluation of Three Different Types of Silicone Rubber, *Journal of Applied Polymer Science*, 88 (10) 2522-2529, **2003**.
45. **Hamid Mirzadeh** and M. Dadsetan, Influence of Laser Surface Modifying of Polyethylene Terephthalate on Fibroblast Cell Adhesion, *Radiation Physics and Chemistry*, 67 (3-4) 381-385, **2003**.
46. S. Bahram Bahrami, Soheila S. Kordestani, **Hamid Mirzadeh** and Parvin Mansoori, Poly vinyl alcohol /Chitosan Blends: Preparation, Mechanical and Physical Properties, *Iranian Polymer Journal*, 12 (2) 139-146, **2003**.
47. Hassan Arabi, **Hamid Mirzadeh**, Seyed Hossein Ahmadi and Saeed Amanpour, Coating of Polyester Fabric with Graphite Composition to Produce Thrombo-Resistant Vascular Grafts Part 1: Coating Technique and *in vitro* Study, *Iranian Polymer Journal*, 12 (2) 147-152, **2003**.
48. F. Abbasi and **Hamid Mirzadeh**, Properties of Poly(dimethylsiloxane)/Hydrogel Multicomponent Systems, *Journal of Polymer Science Part B: Polymer Physics*, 41 (18) 2145-2156, **2003**.

49. M.T. Khorasani, B. Sadatnia And **Hamid Mirzadeh**, Evaluation of Effective Parameters on Cooling Period in Cryoaccumulator Gels, *Iranian Journal of Polymer Science and Technology*, 15 (6) 387-394, **2003**.
50. GH.R. Bakhshandeh, **Hamid Mirzadeh**, M.T. Khorasani, F. Abbasi, F. Shokr Elahi And A. Parvin, Manufacture and Investigation of Mechanical Properties and Blood Compatibility of Silicone O-Ring Used in Dialyzers, *Iranian Journal of Polymer Science & Technology*, 16 (1) 41-49, **2003**.
51. M.T. Khorasani, **Hamid Mirzadeh** and Z. Kermani, Surface Modification of Silicone Elastomer to Increase Hydrophobicity, *Iranian Journal of Polymer Science and Technology*, 16 (3) 175-181, **2003**.
52. H. Arabi, **Hamid Mirzadeh**, S.H. Ahmadi, S. Amanpour, S. Rabbani, A. Abdi, *In vitro* and *in vivo* Hemocompatibility evaluation of Graphite Coated Polyester Vascular Grafts, *The International Journal of Artificial Organs*, 27 (8) 691-698, **2004**.
53. Nakisa Yaghobi and **Hamid Mirzadeh**, Enhancement of Chitin's Degree of Deacetylation Using Multi-Stage Alkali Treatment, *Iranian Polymer Journal*, 13 (2) 131-136, **2004**.
54. F. Abbasi and **Hamid Mirzadeh**, Adhesion between modified and unmodified poly(dimethylsiloxane) layers for a biomedical application , *International Journal of Adhesion & Adhesives*, 24 (3) 247-257, **2004**.
55. M. T. Khorasani and **Hamid Mirzadeh**, *In vitro* Blood compatibility of Modified PDMS Surfaces as a Superhydrophobic and Superhydrophilic Materials, *Journal of Applied Polymer Science*, 91 (3) 2042-2047, **2004**.
56. **Hamid Mirzadeh** and F. Abbasi, Segmented Detachable Structure Cochlear Implants' Electrodes for Close-Hugging Engagement with the Modiolus; *Journal of Biomedical Materials Research, B, Applied Biomaterials*, 15 68(2) 191-198, **2004**.
57. R. Ghavamzadeh, V. Haddadi-Asl and **Hamid Mirzadeh**, Bioadhesion and Biocompatibility Evaluation of Gelatin and Polyacrylic Acid as a Crosslinked Hydrogel: *in vitro*, *Journal of Biomaterials Science, Polymer Edition*, 15 (8) 1019-1031, **2004**.
58. M.T. Khorasani and **Hamid Mirzadeh**, BHK Cells Behaviour on Laser Treated PDMS Surfaces, *Colloids and Surfaces, an International Journal B: Biointerfaces*, 35 (1) 67-71, **2004**.
59. J. Barzin, S. S. Madaeni, **Hamid Mirzadeh**, M. Mehrabzadeh, Effect of Polyvinylpyrrolidone on Morphology and Performance of Hemodialysis Membrane Prepared from Polyether Sulfone, *Journal of Applied Polymer Science*, 92 (6) 3804-3813, **2004**.
60. Jalal Barzin, C. Feng, K.C. Khulbe, T. Matsuura, S.S. Madaeni and **Hamid Mirzadeh**, Characterization of Heat Treated PES-PVP Hemodialysis Membrane by Ultrafiltration and Atomic Force Microscopy, *Journal of Membrane Science*, 237 , 77-85, **2004**.

61. M. T. Khorasani and **Hamid Mirzadeh**, Laser Surface Modification of Silicone Rubber to Reduce Platelet Adhesion, *Journal of Biomaterials Science, Polymer Edition*, 15 (1) 59-72, **2005**.
62. Jalal Barzin, S. Siavash Madaeni and **Hamid Mirzadeh**, Effect of Preparation Conditions on Morphology and Performance of Hemodialysis Membranes Prepared from Polyether Sulfone (PES) and Polyvinyl Pyrrolidone (PVP), *Iranian Polymer Journal*, 14 (4) 353-360, **2005**.
63. S. Amanpour, H. Ahamadi, **Hamid Mirzadeh**, M.A. Mohagheghi and S. Rabbani, Long Term Evaluation of Laser-Treated Silicone (LTS) Membrane as a Pericardial Substitute: *In Vivo* Study, *Journal of Long-Term Effects of Medical Implants*, 15 (4) 347-353, **2005**.
64. M.T. Khorasani, **Hamid Mirzadeh** and Z. Kermani, Wettability of Porous PDMS Surface: Morphology Study, *Applied Surface Science*, 242 (3-4) 339-345, **2005**.
65. MT Khorasani, M Zaghiyan and **Hamid Mirzadeh**, Ultra High Molecular Weight Polyethylene and Polydimethylsiloxane Blends as Acetabular Cup material, *Colloids and Surfaces, an International Journal B: Biointerfaces*, 41 (2-3) 169-174, **2005**.
66. Saeid Karbasi, **Hamid Mirzadeh**, Fariba Orang and Jill P.G. Urban, et.al, A Comparison Between Cell Viability of Chondrocytes on a Polyurethane Biodegradable Scaffold and Alginate Beads in Different Oxygen Tension and pH, *Iranian Polymer Journal*, 14 (9) 823-830, **2005**.
67. M. Khakpour, A. Jamshidi, A. A. Entezami and **Hamid Mirzadeh**, et.al, HPTLC Procedure for Determination of Levonogestrel in Drug Release Media of an *In – situ* Forming Delivery System, *Journal of Planner Chromatography- Modern- TLC (JPC)*, 104 (18) 331-334, **2005**.
68. S. Karbasi, **Hamid Mirzadeh** and F. Orang, Evaluation of Physical Environment on Chondrocytes Cells Metabolism Seeded on a Biodegradable Polyesterurethane Scaffold for Articular Cartilage Tissue Engineering, *Iranian Journal of Polymer Science and Technology*, 18 (6) 383-390, **2005**.
69. T. Dolatabadi Farahani, E. Vasheghani Faraahani And **Hamid Mirzadeh**, Swelling Behavior of Alginate-N, O-Carboxymethyl Chitosan Gel Beads Coated by Chitosan, *Iranian Polymer Journal*, 15 405-415, **2006**.
70. F. Abbasi, **Hamid Mirzadeh** and M. Simjoo, Hydrophilic Interpenetrating Polymer Networks of Polydimethyl siloxane (PDMS) as Biomaterial for Cochlear Implants, *Journal of Biomaterials Science. Polymer Edition*, 17 (3), 247-368, **2006**.
71. Yasser Ghazizadeh, **Hamid Mirzadeh**, Saeed Amanpour, Hossien Ahmadi and Shahram Rabbani, Investigation of Effectiveness of Chitosan Hydrogel to Stop Bleeding and Air Leakage from Lung Fistula: *In Vivo* Study, *Iranian Polymer Journal*, 15 (10) 821-828, **2006**.
72. M.T. Khorasani, S. MoemenBellah, **Hamid Mirzadeh** and B. Sadatnia, Effect of surface Charge and Hydrophobicity of Polyurethane and Silicone Rubbers on L929 Cells Response, *Colloids and Surfaces, an International Journal B: Biointerfaces*, 51 (2) 112-119, **2006**.

73. Shadab Bagheri, **Hamid Mirzadeh**, Effect of Radio Frequency Plasma on Polystyrene Surface Properties, *Iranian Journal of Polymer Science and Technology*, 19 (5) 395-402, **2006**.
74. E. Takácsa, **Hamid Mirzadeh**, L. Wojnárovits, J. Borsac, M. Mirzataheri and N. Benke, Comparison of Simultaneous and Pre-irradiation Grafting of N-vinylpyrrolidone to Cotton–Cellulose, *Nuclear Instruments and Methods in Physics Research Section B (NIMB Journal)*, 265 (1) 217-220, **2007**.
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STUDENTS' DISSERTATIONS:
As Supervisor or Adviser

	Graduated Students	Thesis Title
1	A. R. Ekbatani (MSc, 1995)	Laser Grafting of Acrylic Acid onto EPR
2	M. R. Rezaee Darvish (MSc, 1997)	Preparation and Investigation of Physical and Mechanical Properties of Biocompatible Blend Based on PDMS/PHEMA
3	M. Mehralipour (MSc, 1998)	Evaluation of Platelet Activation onto Laser Grafted Acrylic Acid-EPR (<i>in vitro</i>)
4	M. T. Khorasani (PhD, 1997)	PDMS Surface Modification by Laser Irradiation: A Novel Technique for the Preparation of Blood Compatible Polymers (<i>in vitro</i> & <i>in vivo</i>)
5	A. Sheikholmoloki (MSc, 1998)	Theoretical and Experimental Investigation of Protein Adsorption on Soft Contact Lenses, <i>in vitro</i>
6	M. Mohseni (MSc, 2000)	Evaluation of Physical, Mechanical and Electrical Properties of Elastomeric Blend based on PDMS/EPR
7	N. Sheikh (PhD, 2000)	Isocyanate-Terminated Urethane Prepolymer as Bioadhesive Material: Synthesis and Characterization and Biocompatibility Evaluation (<i>in vitro</i> & <i>in vivo</i>)
8	M. Dadsetan (PhD, 1999)	Effect of CO ₂ and Excimer Laser Radiation on the Biocompatibility of Polyethylene Terephthalate (<i>in vitro</i> & <i>in vivo</i>)
9	S. Kheirandish (MSc, 2000)	Effect of Hydrogel content on Properties of a Composites Based on RTV Silicone Rubber on Matrix and Crosslinked Poly (acrylic acid) Particles as the Dispersed Phase
10	A. R. Sadegee (MSc, 1999)	Design and Fabrication of an Orthopedic Plate Based on Polymeric Composites
11	R. Motazaker (MSc, 1999)	Preparation of Hydrophilic Vulcanized Networks Based on Polychloroprene- Poly HEMA Blends
12	H. Keshvari (MSc, 2000)	PDMS Surface Laser Grafting Using Acrylic Acid for Collagen Immobilization (<i>in vitro</i>)
13	M. R. Jafari (MSc, 2000)	Manufacturing of a Polymeric Ocular Prosthesis for Therapy of Glaucoma, (<i>in vitro</i> & <i>in vivo</i>)
14	D. Falahi (MSc, 2001)	Physical, Mechanical and Biocompatibility Evaluation of Three Different Types of Silicone Rubber (<i>in vitro</i>)
15	F. Shokrolahi (MSc, 2001)	Effect of Silicone Rubber Crosslink Density on Fibroblast Cells Behavior: <i>in vitro</i>
16	R. Ghavamzadeh (MSc, 2001)	Bioadhesion and Biocompatibility Evaluation of Gelatin and Polyacrylic Acid as a Crosslinked Hydrogel: <i>in vitro</i>
17	M. Ghias (PhD, 2001)	Monte Carlo Simulation of Non-Linear Free Radical Polymerization Using a Percolation Kinetic Gelation Model
18	F. Abbasi (PhD, 2002)	Bulk and Surface Modification of Silicon Rubber for Biomedical Applications

	Graduated Students	Thesis Title
19	A. Vakili (M.Sc, 2003)	Preparation of Porous Chitosan with Different Molecular Weight Using Lyophilizing System
20	B. Bahrami (PhD, 2003)	Poly (vinyl alcohol)/ Chitosan/ Gelatin Blend Film as Wound Dressing (<i>in vitro</i> & <i>in vivo</i>)
21	H. Nojehdehian (MSc, 2003)	Effect of Fluoride on Properties of Apatite Cement
22	H. Arabi (PhD)	Evaluation of blood Compatibility of Artificial Vascular Graft Based on Carbon Coated Dacron.
23	R. Mehdiavaz (M.Sc)	Enhancement of E- coli Adsorption onto Laser Treated PET Film Surface
24	J. Barzin (PhD)	Preparation and Formulation of Flat and Hollow Fiber Hemodialysis Membrane
25	S. Karbasi (PhD)	Evaluation of Physical Environment Effect on Chondrocyte Cells Seeded onto Porous and Biodegradable Polyurethane Scaffolds
26	M. Khakpour (PhD)	Contraceptive Agents Release from an In Situ Forming Drug Delivery System : <i>In vitro</i>
27	Y. Ghazizadeh (MSc)	Evaluation of Effectiveness of Chitosan Hydrogel to Prevent Lung Fistula from Bleeding and Air Leakage
28	A. Parvin (MSc)	Plasma –Induced Graft Polymerization of Acrylamide onto Silicone Rubber.
29	E. Vahedi Moghadam (MSc)	KrF Laser Induced Nano-Structuring onto Polyethyleneterephthalate (PET) by Different Repetition Rate : Evaluation of the Biocompatibility of the Treated surfaces: <i>in vitro</i>
30	Sh. Bagheri (MSc)	Comparison the Effect of Eximer Laser and RF Plasma on Polystyrene Surface Based on Biocompatibility
31	A. Fakhari (MSc)	Evaluation of Aphthous Fever Virus Realizing from PLGA Nanoparticles
31	A.Sadat Hashemi (MSc)	Preparation of PEG Based Biodegradable Polymeric Networks with Application in Topical Drug Delivery
33	A.R.Toloe (PhD)	UHMWPE/Hydroxy Apatite/PDMS as Hip Joint: Design, Manufacturing and Biocompatibility Evaluation
34	Y. Mohammadi (PhD)	Bone Tissue Engineering Using Chitosan/Gelatin/TCP Porous Scaffolds: <i>In vivo</i> Study
35	E. Nejati (MSc,)	Preparation of Nanocomposite Scaffolds Comprising HA/ PLLA for Bone Tissue Engineering
36	A.Karkhaneh (PhD)	Preparation and Modification of the Surface Properties of PDMS to Immobilize Collagen Cornea Application: <i>in vitro</i> & <i>in vivo</i> .
37	M. Rafeenia (PhD)	Preparation of PLGH-Injectable Implant Delivery System, as <i>in situ</i> Forming for Release of Corticosteroidal Drugs: <i>In vitro</i> & <i>in vivo</i>

	Graduated Students	Thesis Title
38	Sh. Sharifi (PhD)	Synthesis & Characterization of Biodegradable, Injectable Polycaprolactone – Fumarate (PCLF) Based Drug Delivery Systems Containing Anticancer Agent: <i>In vitro</i> & <i>in vivo</i> .
39	S. Eftekhari (MSc)	Plasma surface modification of PET to improve blood compatibility and grafting with acrylic acid and heparin: <i>in vitro</i>
40	E. Dashti Moghadam (MSc)	Chemical Modification of Chitosan (Thiolation) to Enhance Bio-adhesiveness : <i>in vitro</i> & <i>in vivo</i> Assays
41	M. Enayati (MSc)	<i>In situ</i> Forming and Control Released of Leuprolide in the Treatment of Prostate Cancer: <i>in vitro</i> & <i>in vivo</i> Assays
42	M. Zandi (PhD)	Evaluation of Molecular Network Formation of Gelatin and Biomaterialized Gelatin for Biomedical Application : Rheological and NMR Studies
43	H. Syednejad (MSc)	Preparation and Evaluation of Dextran Microspheres as Hemostatic Agent
44	H. Keshvari (PhD)	Collagen Immobilization onto Acrylic Acid Laser-grafted Silicone for Using as Artificial Skin: <i>in vitro</i> & <i>in vivo</i>
45	F. Farahmand (PhD)	Drug Eluting Silicone Elastomer for Biomedical Applications
46	Taghizadeh (PhD)	Effect of Formulation Variables on the Design of an Acrylic/Silicone Pressure Sensitive Adhesive (PSA) System for Transdermal Delivery of Fentanyl
47	P. Shokrolahi (PhD)	Preparation and Characterization of Supra- Molecular Polymers
48	M. Koosha (MSc)	Electron Beam Interaction with PP: Biocompatibility Evaluation of the Branched PP, <i>in vitro</i>
49	M. Pezeshki (MSc)	Preparation and Characterization of Gelatin/Chitosan-Silicone Membrane Bilayer Scaffold for Skin Tissue Engineering
50	A. Talebi (MSc)	Fabrication of Porous Scaffolds Based on PLA by Thermally Induced Phase Separation Method
51	S. Kamrani Kamkar (MSc)	Relationship Between Microstructure and Antibacterial Activity in UV Degradable Interfacially Compatibilized Film Grade LDPE/ TiO ₂ Nanocomposites
52	A. Solouck (PhD)	Surface Modification of a Hybrid Nano-composite Based on PU by Plasma to Improve its Blood Compatibility
53	M. Aghaee (MSc)	Chitosan Hydrogels Containing Glucontime as Wound Healing Agent: <i>In vitro</i> and <i>In vivo</i> Assays
54	E.Babae (MSc)	Skin Tissue Engineering
55	M.Saeed (MSc)	Skin Tissue Engineering
56	F. Shokrolahi (PhD)	Synthesis & Characterization of Biodegradable, Injectable Polyurethane Urea for Bone Tissue Engineering: <i>In vitro</i> & <i>in vivo</i>
57	M.Rastegar (MSc)	Plasma Treated Chitosan films for Wound Healing Applications.

	Graduated Students	Thesis Title
58	A. Sadat Hashemi (Ph.D)	Preparation and Evaluation of a Wound Dressing Hydrogel Based on Chitosan/ Unsaturated Fumarate Polyester
59	A. Mirzaei (MSc)	Plasma Surface Modification of PU/Chitosan Electrospun Mat as a Wound Dressing.
60	H. Peydayesh (MSc)	Preparation and Evaluation of Chitosan/ Alginate Electrospun Mat for Skin Tissue Engineering Applications.
61	J. Kia (MSc)	Design and Fabrication of Chitosan Scaffolds for Treatment of Diabetic Ulcers: Comparison Electrospun Mats with Solvent Casting Membrane
62	M. Saeedi (MSc)	Osteoblast Cell Encapsulation Using Gelatin/Alginate Blend for Bone Tissue Engineering Applications.
63	R.Dimercheli (MSc)	Electrospun Nanofibers Comprising Chitosan/Alginate for Skin Tissue Engineering.
64	H.Mahdavi (Ph.D)	Design and Fabrication of Wound Dressing Films Comprising Chitosan/Collagen/Polyvinyl alcohol/Nano clay: in vitro and in vivo Assays
65	E. Dashti Moghadam (Ph.D)	Design and Fabrication of Composites Hydrogel Based on Modified Chitosan for Tamoxifen Citrate Delivery to Enhance Wound Healing: <i>in vitro</i> & <i>in vivo</i> Assays.
66	Maryam Mashayekhi (MSc)	Fabrication of nano polymeric scaffolds with large pore sizes using electrospinning
67	M. Pezeshki (Ph.D)	Electrospun Nanofibers Comprising Chitosan/Gelatin /GAG for Skin Tissue Engineering.
68	M. Koosha (Ph.D)	Preparation a Nanocoposite Electrospun Comprising Chitosan / Hyaluronic Acid/ and Nanosilicate for Treatment of Diabetic Ulcers
69	B Moghadass (MSc)	Gelatin/Chitosan/Nanoclay Films with Antibacterial Properties for Wound Dressing Applications
70	Z.Bagher (Ph.D)	Differentiation of Mesenchymal Stem cells (MSCs) derived from Umbilical Cord to Neurons Using PCL/Collagen Scaffolds: In Vitro
71	Z. Jamalpour(Ph.D)	The Study of Endothelial Cells Effect in differentiation of Warton's Jelly Mesenchymal Stem Cells (MSCs) to Osteoblast on Gelatin/ Chitosan Nano-hydroxyl Apatite Scaffolds :In Vitro
72	M Dadras (MSc)	Silk Nanofibrous Scaffolds with Antibacterials Properties for Wound Dressing Applications
73	S Esfandiarpour (MSc)	Hydrophobic Modified Chitosan Nanoparticles containing Doxorubicin for Breast Cancer Therapy
74	Mahdi Saeed	Preparation and Evaluation of 3 Layers Electrospun Mat Based on PCL,PVA Containing Curcumin for Wound Healing Applications: in vitro and in vivo Assays
75	F. Hejazi (Ph.D)	Fabrication 3D Scaffolds Based On PCL/Corale with High Porosity for Bone Tissue Engineering
76	Nafiseh Olov	Combinational drug delivery for cancer therapy

	Present Students	Research Area
1	Y. Ghazizadeh (Ph.D)	Preparation & Evaluation of Electrospun Chitosan-based Nanofiber for Wound Dressing Applications.
2	A. Motamedi (Ph.D)	Nano and Micropatterning on PVDF Electrospun Scaffolds For Nerve Tissue Engineering
3	S.M. Seyed Karimi	Self-Assembled Nano Peptide Scaffolds for Fast Hemostatic Applications
4	Mahmoud Ghafghazi	Injectable systems for drug delivery based on charged nanoparticles
5	Bahar Asaadi	Fabrication and Characterization of cryogels based on nHA/Chitosan/Gelatin for bone tissue engineering
6	Kasra Goudarzi	Injectable cryogels for cartilage tissue engineering applications

دکتر حمید میرزاده

استاد پایه 41

دانشکده مهندسی پلیمر و دانشکده مهندسی پزشکی دانشگاه صنعتی امیرکبیر

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ج) تالیفات

د) ثبت اختراعات:

8-4- پایان‌نامه‌های دانشجویان کارشناسی ارشد یا دکتری تخصصی (بعنوان استاد راهنما یا استاد

مشاور)

5 - در باره دکتر حمید میرزاده

1 - اطلاعات شخصی:

- متاهل
- استاد دانشکده مهندسی پلیمر و دانشکده مهندسی پزشکی دانشگاه صنعتی امیرکبیر.
- استاد وابسته دانشگاه علوم پزشکی تهران
- **H index: 28 (Scopus and ISI)**
- **H index: 32 (Google Scholar)**
- **i10 index: 99 (Google Scholar)**

2 - سوابق تحصیلی:

- کارشناسی ارشد، طراحی و ساخت کامپوزیت‌ها بر پایه پلی‌استر و الیاف‌کنف، دانشگاه صنعتی امیرکبیر، ایران
1357.
- دکترای تخصصی، بررسی زیست‌سازگاری الاستومر EPR پیوندخورده با هیدروژل‌ها به کمک اشعه لیزر، دانشگاه نیوساوت ویلز (UNSW) استرالیا، 1373.

5 - سوابق اجرایی و مدیریتی:

- فرماندار سیرجان: 1359-1360
- استاندار کرمان: 1360-1364
- معاون اجرایی نخست وزیر: 1364-1368
- معاون اجرایی رئیس جمهور: 1368-1374
- معاون رئیس جمهور و رئیس سازمان برنامه و بودجه: 1374-1376
- دبیر و عضو هیات موسس دانشگاه آزاد اسلامی 1386 تا کنون.
- عضو هیات امنای مرکزی دانشگاه آزاد اسلامی 1386 تا کنون.
- ریاست دانشگاه آزاد اسلامی 1392 تا کنون

6 - سوابق علمی، آموزشی و پژوهشی:

- عضو هیات علمی دانشگاه کرمان 1358-1373.
- استاد دانشگاه صنعتی امیر کبیر، 1373 تا کنون.
- عضو هیات علمی پژوهشگاه پلیمر و پتروشیمی ایران، 1389-1373

4-1- فعالیت‌های آموزشی:

تدریس 19 واحد درسی در دانشکده‌های مهندسی پزشکی و مهندسی پلیمر دانشگاه صنعتی امیرکبیر و پژوهشگاه پلیمر و پتروشیمی ایران و دانشکده علوم پزشکی ایران (مهندسی بافت) برای دوره‌های کارشناسی، کارشناسی ارشد و دکتری شامل:

- مهندسی بافت، 3 واحد.
- پلیمرها در پزشکی، 3 واحد.
- مبحث زیست سازگاری، 3 واحد.
- روش‌های اصلاح سطوح پلیمرها، 3 واحد.
- روش‌های نوین برای آنالیز سطوح بیوماتریال‌ها، 3 واحد.
- لیزر در پزشکی 2 واحد
- روشهای اصلاح پلیمرها 2 واحد

4 - 2 - جوایز و افتخارات :

- برنده جایزه جشنواره بین المللی خوارزمی سال 1373
- برنده جایزه جشنواره بین المللی رازی سال 1382
- پژوهشگر نمونه دانشگاه صنعتی امیر کبیر، 1383.
- پژوهشگر نمونه پژوهشگاه پلیمر و پتروشیمی ایران، 1384.
- برگزیده بعنوان بهترین سخنران، سمینار بین المللی ISPST 2005 تهران، دانشگاه صنعتی امیرکبیر، مهرماه 1384.
- برگزیده بعنوان مدیر پژوهشی برتر مؤسسات پژوهشی کشور، هفتمین جشنواره پژوهش و فناوری، 1385.
- برنده جایزه جشنواره بین المللی رازی سال 1386
- دریافت لوح تقدیر بعنوان موسس پژوهشگاه پلیمر و پتروشیمی ایران از هیات امنای پژوهشگاه و وزیر علوم و تحقیقات و فناوری سال 1385
- دریافت لوح تقدیر بعنوان مدیر مسئول ژورنال برتر با نمایه بین المللی 1386
- پژوهشگر نمونه پژوهشگاه پلیمر و پتروشیمی ایران 1387.
- استاد نمونه کشوری 1387.
- دریافت لوح سپاس آموزش و جامعه - دانشگاه صنعتی امیر کبیر - 1391
- منتخب برتر دهمین جشنواره ملی ایده های برتر - تهران هفته پژوهش و فناوری آذر ماه 1391
- پژوهشگر برتر در زمینه مهندسی زیستی - منتخب رئیس ستاد توسعه زیست فناوری ریاست جمهوری و پژوهشگاه ملی مهندسی ژنتیک و زیست فناوری اسفند 1391

4-3 - زمینه تخصصی:

- مهندسی بافت (پوست، غضروف و استخوان)
- مبحث زیست‌سازگاری
- پلیمرهای زیست‌سازگار
- اصلاح خواص سطحی و آنالیز سطوح بیومتریال‌ها و نانو ساختارهای پلیمری

4-4 - فعالیت‌های پژوهشی

اجرای 70 پروژه پژوهشی از جمله:

- طرح ملی تولید پلیمرهای زیست‌سازگار با اشعه لیزر که برای اولین بار در ایران و جهان انجام شد و مقالات منتشره از این طرح مورد مراجعه جامعه علمی جهانی قرار گرفته است. محل اجرای طرح پژوهشگاه پلیمر و پتروشیمی ایران. (برنده جایزه جشنواره بین‌المللی خوارزمی سال 1373).
 - طرح ملی حلزون شنوائی (برنده جایزه جشنواره بین‌المللی رازی سال 1382) نتایج این طرح در آمریکا و اروپا ثبت اختراع شده است.
 - طرح ملی طراحی و ساخت چسب طبی زیست‌سازگار و زیست تخریب پذیر که نتایج آن به تایید وزارت بهداشت و درمان ج.ا.ا رسیده است.
 - طراحی و ساخت غشاء پلی سولفونی برای کاربرد در دیالیز کلیه (برنده جایزه جشنواره بین‌المللی رازی سال 1385)
 - طراحی و ساخت ظروف کشت سلولی (برنده جایزه جشنواره بین‌المللی رازی سال 1386)
 - اجرای طرح پوشش الکتروود رهاینده داروی ضد التهاب (Corticosteroid)، حلزونی شنوایی به سفارش شرکت اتریشی MED-EL با گرانت 93000 دلار، نتایج این طرح در آمریکا ثبت اختراع شده است (شروع سال 1386)
- فاز 1.

- اجرای طرح پوشش الکتروود رهاینده داروی ضد التهاب (Corticosteroid)، حلزونی شنوایی به سفارش شرکت اتریشی MED-EL با گرانت 96000 یورو، این طرح در دست اجراست (شروع سال 1387) فاز 2.
- طرح ساخت پوشش های زخم بر پایه بیو کامپوزیتهای پلیمری که در بیمارستان شهدای تجریش روی بیماران سوختگی و سالک و زخم پای دیابتی در بخش پوست آن بیمارستان استفاده و مورد تایید قرار گرفته است و نمونه اینکار پژوهشی اخیرا به شرح زیر ثبت اختراع بین المللی شده است:

(Us Patent:PUB. NO. US2011/0218472 A1 Sep. 8 2011)

- اجرای طرح پژوهشی " طراحی و ساخت نیمه صنعتی پانسمان های پلیمری زیست تخریب پذیر بر پایه کیتوسان برای درمان سوختگی ها" صندوق حمایت از پژوهشگران کشور (طرح شماره: 89001749)
- طراحی و ساخت داربست های نوین نانوساختار بر پایه پلیمرهای طبیعی جهت درمان زخمهای دیابتی با استفاده از روش الکتروریسندگی نانوالیاف (صندوق حمایت از پژوهشگران کشور) – همکار طرح.
- کاربرد پلیمرهای زیست سازگار در مهندسی بافت، ستاد توسعه زیست فناوری، مجری طرح- در حال اجرا.
- بقیه فعالیت های پژوهشی اینجانب ذیلا در قسمت 4-8 این بیوگرافی آورده شده است.

- موسس مرکز تحقیقات پلیمر ایران (پژوهشگاه پلیمر و پتروشیمی ایران) 1364.
- موسس شهرک‌های تحقیقاتی پژوهش (تهران) 1364 و کاوش (کرج) 1369.
- موسس مرکز رشد فناوری پلیمر 1381.
- مدیر مسئول و سردبیر Progress in Biomaterials ناشر Springer از 2011 تا کنون
- مدیر مسئول و عضو هیئت تحریریه مجله علوم و تکنولوژی پلیمر از سال 1367 تا 1390
- مدیر مسئول و سردبیر Iranian polymer Journal از سال 1373 تا 1390 (این مجله به عنوان مجله علمی پژوهشی برتر کشور که در JCR توسط موسسه اطلاعات علمی ISI نمایه نویسی می‌شود در جشنواره پژوهش و فناوری سال 1385 انتخاب شد).
- رئیس انجمن پلیمر ایران از 1376 تا 1393 (6 دوره از 7 دوره).
- عضو هیئت علمی دانشکده‌های مهندسی پلیمر و مهندسی پزشکی، دانشگاه صنعتی امیرکبیر 1373 تا کنون .موسس و مسئول آزمایشگاه لیزر پلیمر در سازمان انرژی اتمی ایران (1369 تا 1387).
- موسس و مسئول آزمایشگاه مهندسی بافت در دانشکده مهندسی پزشکی دانشگاه صنعتی امیرکبیر (1373 تا 1388).
- موسس و مسئول آزمایشگاه بیوپلیمر در دانشکده مهندسی پلیمر دانشگاه صنعتی امیر کبیر (1373 تا کنون).
- مدیر گروه بیوماتریال پژوهشگاه پلیمر ایران از مرداد 1373 تا شهریور 1378.
- رئیس پژوهشگاه پلیمر و پتروشیمی ایران از مرداد 1378 تا مرداد 1389.
- عضو انجمن بیوماتریال آمریکا (Society for Biomaterials) از سال 2000 تا کنون.
- عضو انجمن شیمی و مهندسی شیمی ایران 1372 تا کنون ..
- عضو انجمن سامانه‌های نوین دارورسانی ایران 1383 تا کنون .
- عضو هیئت تحریریه مجله بین المللی Artificial Organs, John Wiley از سال 2008 تا کنون.
- عضو هیئت تحریریه فصل نامه علمی پژوهشی لیزر در پزشکی (Laser in Medicine) از سال 2010 تا کنون .
- عضو هیئت تحریریه مجله بین المللی انجمن شیمی ایران (JICS) از سال 2005 تا کنون.
- عضو کمیته علمی و رئیس کمیته میان گروهی صندوق حمایت از پژوهشگران کشور- ریاست جمهوری 1383-1391 .
- عضو هیئت امناء پژوهشگاه استاندارد ایران 1384-1389 .

4-6 - داوری مقالات علمی برای ژورنالهای ملی و بین المللی :

1. Artificial Organs, Official Journal of ISAO, INFA and ISRP Published by Blackwell.
2. Journal Biochimica et Biophysica Acta (BBA - Biomembranes) Published by Elsevier.
3. Journal of Applied Polymer Science (English), Published by John Wiley & Sons, Inc.
4. Iranian Polymer Journal (English), Published by IPPI Press.
5. Biomacromolecules, Published by ACS Publications.
6. Iranian Journal of Chemical Engineering; (English), Published by the Iranian Association of Chemical Engineers (IACHE).
7. Iranian Journal of Polymer Science & Technology (Persian), Published by the Iran Polymer Society.
8. Iranian Journal of Chemistry & Chemical Engineering (English & Persian), Published by the Jahad Daneshgahi.
9. Journal of Iranian Medical Engineering Society, (Persian).
10. Journal of the Iranian Chemical Society (JICS), Published by Iranian Chemical Society (English).
11. Carbohydrate Polymers, Published by Elsevier.
12. Journal of Biomedical Materials research, Part A, Published by John Wiley.
13. Green Chemistry Letters and Reviews, Published by Taylor and Francis.
14. Journal of Nanomaterials, Hindawi Publishing Corporation.
15. Journal of Biomaterials Applications, published by Sage publications.
16. Materials Science and Engineering C, published by Elsevier.
17. ACS Applied Materials & Interfaces, ACS publication.
18. European Journal of Medicinal Chemistry, published by Elsevier.
19. Journal of Industrial and Engineering Chemistry, published by Elsevier.

- 1- Mohammad A. Semsarzadeh, Abdol R. Lotfali and **Hamid Mirzadeh**, Jute Reinforced Polyester Structures, *Polymer Composites*, 5 (2) 141-142, **1984**.
- 2- Mohammad A. Semsarzadeh, **Hamid Mirzadeh** and Abdol R. Lotfali, Unsaturated Polyester Resin Bulk Reinforcing by Jute Fibers, *Iranian Journal of Polymer Science and Technology*, 2 (2) 94-97, **1989**.
- 3- **Hamid Mirzadeh**, A.A. Katbab, R.P. Burford, CO₂ – Pulsed Laser Induced Surface Grafting of Acrylamide onto Ethylene-Propylene Rubber (EPR), Part I, *Radiation Physics and Chemistry*, 41 (3) 507-519, **1993**.
- 4- **Hamid Mirzadeh**, A.A. Katbab, R.P. Burford, CO₂ – Pulsed Laser Induced Surface Grafting of Acrylamide onto Ethylene-Propylene Rubber (EPR), Part II, *Radiation Physics and Chemistry*, 42 (1-3) 53-56, **1993**.
- 5- **Hamid Mirzadeh**, M.T. Khorasani, A.A. Katbab, R.P. Burford, Surface Modification of EPR as Biomaterial by Laser Induced Graft Copolymerization of AAm, HEMA, NVP, I: AAm, *Iranian Journal of Polymer Science and Technology*, 6 (1) 4-16, **1993**.
- 6- **Hamid Mirzadeh**, A.A. Katbab, M.T. Khorasani, R.P. Burford, CO₂ – Laser Induced Surface Grafting of HEMA and NVP onto Ethylene-Propylene Rubber as Biocompatible Material, *Angewandte Makromolekulare Chemie*, 218 () 23-40, **1994**.
- 7- **Hamid Mirzadeh**, M.T. Khorasani, A.A. Katbab, R.P. Burford , Z. Soheili, A. Golestani, B. Goliaei, Biocompatibility Evaluation of Laser Induced AAm and HEMA Grafted EPR: I-*in vitro* Study, *Clinical Materials*, 16 (4) 177-187, **1994**.
- 8- **Hamid Mirzadeh**, A.A. Katbab, M.T. Khorasani, R.P. Burford, Surface Modification of EPR as Biomaterial by Laser Induced Graft Copolymerization of AAm, HEMA and NVP: II-HEMA and NVP, *Iranian Journal of Polymer Science and Technology*, 7 (3) 160-173, **1994**.
- 9- **Hamid Mirzadeh**, A.A. Katbab, R.P. Burford, CO₂ – Laser Graft Copolymerization of HEMA and NVP onto Ethylene-Propylene Rubber (EPR) as Biomaterial- (III), *Radiation Physics and Chemistry*, 46 (4-6) 859-862, **1995**.
- 10- **Hamid Mirzadeh**, A.A. Katbab, M.T. Khorasani, R.P. Burford , E. Gorgin, A. Golestani, Cell Attachment to Laser Induced AAm- and HEMA-Grafted Ethylene-Propylene Rubber as Biomaterial: *in vivo* Study, *Biomaterials*, 16 (8) 641- 648, **1995**.
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- 182- Preparation and Characterization of Nano-Composite Scaffolds from Nano-Hydroxyapatite/Chitosan/Gelatin for Bone Tissue Engineering, The First Iranian Annual Congress on Progress in Tissue Engineering and Regenerative Medicine, 18- 20 May 2013, Tehran, Iran, Artif Organs, A44, Vol. 37, No. 7, **2013**.
- 183- Chitosan/PVA/HEC Electrospun Scaffold for Skin Tissue Engineering, The First Iranian Annual Congress on Progress in Tissue Engineering and Regenerative Medicine, 18- 20 May 2013, Tehran, Iran, Artif Organs, A45, Vol. 37, No. 7, **2013**.
- 184- Fabrication of Gelatin/Chitosan Nano Fibrous Scaffolds for Skin Tissue Engineering, The First Iranian Annual Congress on Progress in Tissue Engineering and Regenerative Medicine, 18- 20 May 2013, Tehran, Iran, Artif Organs, A47, Vol. 37, No. 7, **2013**.
- 185- Fabrication of Gelatin/Chitosan Scaffolds via Salt-Leaching and Lyophilization and Assessment of their Biological Properties, The First Iranian Annual Congress on Progress in Tissue Engineering and Regenerative Medicine, 18- 20 May 2013, Tehran, Iran, Artif Organs, A47, Vol. 37, No. 7, **2013**.
- 186- Electrospun Nanofibrous Mats as Scaffolds in Tissue Engineering and Regenerative Medicine: Review of the Latest Trends, The First Iranian Annual Congress on Progress in Tissue Engineering and Regenerative Medicine, 18- 20 May 2013, Tehran, Iran, Artif Organs, A30, Vol. 37, No. 7, **2013**.
- 187- An Engineering Technique for Improvement of the Patency Rate of Bypass Grafts, The First Iranian Annual Congress on Progress in Tissue Engineering and Regenerative Medicine, 18- 20 May 2013, Tehran, Iran, Artif Organs, A32, Vol. 37, No. 7, **2013**.
- 188- Morphology and Pore Size Study of Electrospun Polyurethane Nanofibres Using Engineered Collector, 11th international seminar on polymer science and technology, Tehran, Iran, **2014**
- 189- PLGA/NMP Injectable Systems Containing Temporary Nanocomposite Microparticles, 11th international seminar on polymer science and technology, Tehran, Iran, **2014**
- 190- Fabrication of 2D and 3D nanofibrous scaffolds for tissue regeneration using modified electrospinning, 11th international seminar on polymer science and technology, Tehran, Iran, **2014**
- 191- Investigation of the Thermo-mechanical Properties of Chitosan/ Gelatin/ Nano Clay Composite Films for Wound Dressing Application, 11th international seminar on polymer science and technology, Tehran, Iran, **2014**

- 192-Combination of Electrospun Nanofibers and Coral Micro Particles to Improve Mechanical Properties as Well as the Porosity and Pore Size of the Resultant Scaffold, 11th international seminar on polymer science and technology, Tehran, Iran, **2014**
- 193- Optimization of Fiber Diameter in Gelatin/Chitosan Electrospinning Process, 11th international seminar on polymer science and technology, Tehran, Iran, **2014**
- 194- Effect of solvent System on the Morphology and Fiber Diameter of PCL Electrospun Mats, 11th international seminar on polymer science and technology, Tehran, Iran, **2014**
- 195- Aghdami, Investigating of HDF Cells Behavior on Gelatin/Chondroitin Sulfate Nanofibrous Scaffold for Skin Tissue Engineering, 11th international seminar on polymer science and technology, Tehran, Iran, 2014
- 196- Electrospun Nanofibrous Scaffolds Based on Alginate for Skin Tissue Engineering, 11th international seminar on polymer science and technology, Tehran, Iran, **2014**
- 197- Electrospun Nanofibrous Scaffolds Based on Chitosan for Skin Tissue Engineering, 11th international seminar on polymer science and technology, Tehran, Iran, **2014**
- 198- Morphology of Electrospun Chitosan/poly (vinyl alcohol)/MMT Nanocomposite Nanofibers, 11th international seminar on polymer science and technology, Tehran, Iran, **2014**
- 199- Chitosan Based Biomaterials: The Effect of Cross Linking Agents, 41st ESAO Congress, 7- 10 September 2014, Roma, Italy, 2014.
- 200- The Effects of Electrospinning Parameters on Nanofiber Diameter of a Polymeric Biocomposite for Biomedical Application, 3rd International Conference on Electrospinning, San Francisco, California, USA, Aug 4th -7th, **2014**.
- 201- Skin Tissue Engineering: Progresses & Challenge, 3rd National Congress on Burn, Tehran, Iran, February,
- 202- 27th and 28th, **2014**. Fabrication of hydroxycethylcellulose based electrospun nanofibers scaffold for skin tissue engineering, 4rd National Congress on Burn, Tehran, Iran, **2015**.
- 203- Fabrication of polymeric electrospun nanofibers containing gold nanoparticles as a tissue engineering scaffold, 2nd national congress of progresses of tissue engineering and regenerative medicine, Tehran, Iran, **2015**.
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- 205- Comparison on the effect of TFE and acetic acid/formic acid solvent systems on the morphology of electrospun PCL/Gelatin nanofibers for mimicking the ECM, 2nd national congress of progresses of tissue engineering and regenerative medicine, Tehran, Iran, **2015**.
- 206- Injectable self-assembled natural nanocomposite for bone tissue engineering applications, 2nd national congress of progresses of tissue engineering and regenerative medicine, Tehran, Iran, **2015**.

- 207-Fabrication of nano-composite/nano fibrous graded scaffolds for osteochondral tissue regeneration world biomaterials congress, Montreal, Canada, **2016**.
- 208-Patterned deposited nanofibers/microparticles in electrospinning technique to fabricate 3D highly porous scaffold with dual pore size for bone tissue engineering application , world biomaterials congress, Montreal, Canada, **2016**.
- 209-Preparation and characterization carboxymethyl chitosan (CMC) nanoparticles, ISPST2016, Tehran, Iran, **2016**.
- 210-Chitosan nanoparticles: Preparation, size and size dispersion evaluation, ISPST2016, Tehran, Iran, **2016**.
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ج- (تالیفات)

1. مجموعه مقالات اولین همایش علم و فناوری - آینده و راهبردها (2 جلد) از انتشارات مرکز تحقیقات استراتژیک، معاونت علوم و تکنولوژی، 20 و 21 دی ماه 1379، تهران، ایران.
2. مقاله حیاتی شورای ملی علوم و فناوری در افزایش اثربخشی علم و فناوری برای توسعه اقتصادی - اجتماعی کشور، جلد دوم مجموعه مقالات چهل و چهارمین نشست روسای دانشگاه‌ها و مراکز علمی - تحقیقاتی کشور، صفحه 87-79، 1381، تهران، ایران.
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4. مجموعه مقالات دومین همایش علم و فناوری - آینده و راهبردها از انتشارات مرکز تحقیقات استراتژیک، معاونت علوم و تکنولوژی، 29 و 30 بهمن 1382، تهران، ایران.
5. مجموعه مقالات کنفرانس توسعه دانش و فناوری در ایران-راهکارهای توسعه علم و فناوری، 26 تا 28 آبان 1383، دانشگاه صنعتی شریف، تهران، ایران.
6. مقاله توسعه کشور در گرو توسعه علم و فناوری - مجموعه مقالات همایش پژوهش، بهره‌وری، رشد و توسعه اقتصادی، مرداد 1384، موسسه عالی آموزش و پژوهش، مدیریت و برنامه ریزی، صفحه 605-613، تهران، ایران.
7. گزارش پژوهش ایران در سالهای برنامه پنجساله چهارم توسعه کشور پایش بر مبنای: : پژوهشگران، مقالات، کتابها، اختراعات و بودجه پژوهشی - گزارش دبیرخانه هیات موسس دانشگاه آزاد اسلامی 1389.

8. گزارش طرح تدوین برنامه 5 ساله 1394-1390 و برنامه افق چشم انداز 1404 دانشگاه آزاد اسلامی -

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10. Author, Jute Reinforced Polyesters, Structures, Properties and their Applications, Kerman University (notebook), **1982**.
11. Editor, Proceedings of the 1st National Seminar and Workshop on Lasers and Their Applications in Polymers, Special Issue of Journal of Polymer Science and Technology, 10, IPPI publication, Tehran, Iran, **1997**.
12. Editor, The Flourishing Iran, Plan and Budget Organization Publication, Tehran, Iran, **1997**.
13. Author, Statistical Implying Significance, Center for Strategic Research Publication, Tehran, Iran, **2001**.
14. Editor, Proceedings of the 6th Iranian Seminar on Polymer Science and Technology, IPPI Publication, Tehran, Iran, **2003**.
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16. Seminar's President and Editor, Proceedings of the 9th Iranian Seminar on Polymer Science and Technology (ISPST 2009), IPPI Publication, Tehran, Iran, **2009**.
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د) ثبت اختراعات:

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3. Reduction of Platelet Adhesion to the Laser Treated PDMS, in vitro Assay, (patent application no. 9720440.8.
4. Preparation and Formulation of Flat Sheet Membrane Based on Polysulfone for Hemodialysis Applications, Iranian Patent no.32721, **2005**.

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6. Enhancement of Chitin's Degree of Deacetylation by Multi Stages Alkaline Treatment, Iranian Patent no.33670, **2006**.
7. Design and Fabrication of Multipurpose Ultrasonic Coupler for Diagnosis, Iranian Patent no.33705, **2006**.
8. Design and Fabrication of Cryogenic Hydrogels Used in Cold Operational Surgeries and Maintaining the Fresh Cells and Tissues, Iranian Patent no.33707, **2006**.
9. Harmonization of Woven Artificial Vascular Graft by Crimping Process, Iranian Patent no.34029, **2006**.
10. Coating of Woven Artificial Vascular Graft by Graphite to Improve Biocompatibility Using Electrophoresis Technique, Iranian Patent no.34030, **2006**.
11. Design and Fabrication of a New Methods to Prepare Polymeric Profiles Based on PP by Using Adhesive or Microwave, Iranian Patent no.35381, **2006**.
12. Fabrication Procedure of Polyurethane Prepolymers Pilot Plant, Iranian Patent, no. 35888, **2006**.
13. Enhancement of Biocompatibility and Blood Compatibility of Polystyrene by Eximer Laser and RF Plasma, Iranian Patent, no. 39374, **2007**.
14. Introduce and Identification of Flat Sheet Membrane Defects and Removing Methods, Iranian Patent, no. 38745, **2007**.
15. A Novel Method for Reduction of Platelet Adhesion on hemodialysis membranes for High Performance Applications, Iranian Patent, no. 38746, **2007**.
16. Preparation and Modification of Polyether Sulfone Hollow Fiber Hemodialysis Membranes for High Performance, Iranian Patent, no. 38747, **2007**.
17. Modification and Characterization of In situ Crosslinkable Polymers by Visible Light for Realizing of Tamoxifen Citrate as Anti-breast Cancer Drug: in vitro and in vivo Assays: Iranian Patent, no. 42290, **2007**.
18. Pegylation of PPF using PEG Acylation in the Presence of PEO, Iranian Patent, no. 42291, **2007**.
19. Cochlear Implant Electrode Configuration for Drug Eluting, Publication Number: US2007/0213799 A1.
20. Repairing of Intestinal Fistula Using Chitosan – thioglycolic Acid Hydrogel, Iranian Patent, no. 48057, **2008**.
21. Injectable and Biodegradable Hydrogel Based on Thiolated Chitosan at Physiologic pH, Iranian Patent, no. 48055, **2008**.
22. Treatment of Prostate Cancer Using Injectable and Biodegradable Hydrogel Based on Nano- hydroxyapatite and PLGA, Iranian Patent, no. 47656, **2008**.
23. Plasma Surface Modification of PDMS to Improve Fibroblast Cell Growth for Wound Healing Applications, Iranian Patent, no. 51573, **2008**.

24. Chitosan, Gelatin, Collagen and PVA Hybrid Bio-composite for Wound Dressing, Iranian Patent, no. 52658, **2008**.
25. RF Plasma –Induced Graft Polymerization of Acrylamide onto Silicone Rubber, Iranian Patent, no. 55972, **2009**.
26. Electron Beam Interaction with PP: Evaluation of the Branched PP Copolymer, Iranian Patent, no. 56996, **2009**.
27. Drug Delivery System and Method of Making the Same, Pub. No. US2009/0298953A1.
28. Improvement of Bio-medical Properties of Scaffolds Comprising Natural Biopolymers Using Silicone Membrane, Iranian Patent, no. 64421, **2010**.
29. A Technique for Evaluation of Interconnectivity of Pores in the Scaffolds of Tissue Engineering, Iranian Patent, no. 64420, **2010**.
30. Non-Drug Based Wound Dressing Polymer Film and a Method of Producing the Same, Pub. No.: US2011/0218472 A1 Sep. 8 **2011**.
31. Electrospun Mats Based on PLGA / Gelatin for Tissue Engineering Applications, Iranian Patent, no. 77952, **2012**.

	Graduated Students	Thesis Title
1	A. R. Ekbatani (MSc, 1995)	Laser Grafting of Acrylic Acid onto EPR
2	M. R. Rezaee Darvish (MSc, 1997)	Preparation and Investigation of Physical and Mechanical Properties of Biocompatible Blend Based on PDMS/PHEMA
3	M. Mehralipour (MSc, 1998)	Evaluation of Platelet Activation onto Laser Grafted Acrylic Acid-EPR (<i>in vitro</i>)
4	M. T. Khorasani (PhD, 1997)	PDMS Surface Modification by Laser Irradiation: A Novel Technique for the Preparation of Blood Compatible Polymers (<i>in vitro & in vivo</i>)
5	A. Sheikholmoloki (MSc, 1998)	Theoretical and Experimental Investigation of Protein Adsorption on Soft Contact Lenses, <i>in vitro</i>
6	M. Mohseni (MSc, 2000)	Evaluation of Physical, Mechanical and Electrical Properties of Elastomeric Blend based on PDMS/EPR
7	N. Sheikh (PhD, 2000)	Isocyanate-Terminated Urethane Prepolymer as Bioadhesive Material: Synthesis and Characterization and Biocompatibility Evaluation (<i>in vitro & in vivo</i>)
8	M. Dadsetan (PhD, 1999)	Effect of CO ₂ and Excimer Laser Radiation on the Biocompatibility of Polyethylene Terephthalate (<i>in vitro & in vivo</i>)
9	S. Kheirandish (MSc, 2000)	Effect of Hydrogel content on Properties of a Composites Based on RTV Silicone Rubber on Matrix and Crosslinked Poly (acrylic acid) Particles as the Dispersed Phase
10	A. R. Sadegee (MSc, 1999)	Design and Fabrication of an Orthopedic Plate Based on Polymeric Composites
11	R. Motazaker (MSc, 1999)	Preparation of Hydrophilic Vulcanized Networks Based on Polychloroprene- Poly HEMA Blends
12	H. Keshvari (MSc, 2000)	PDMS Surface Laser Grafting Using Acrylic Acid for Collagen Immobilization (<i>in vitro</i>)
13	M. R. Jafari (MSc, 2000)	Manufacturing of a Polymeric Ocular Prosthesis for Therapy of Glaucoma, (<i>in vitro & in vivo</i>)
14	D. Falahi (MSc, 2001)	Physical, Mechanical and Biocompatibility Evaluation of Three Different Types of Silicone Rubber (<i>in vitro</i>)
15	F. Shokrolahi (MSc, 2001)	Effect of Silicone Rubber Crosslink Density on Fibroblast Cells Behavior: <i>in vitro</i>
16	R. Ghavamzadeh (MSc, 2001)	Bioadhesion and Biocompatibility Evaluation of Gelatin and Polyacrylic Acid as a Crosslinked Hydrogel: <i>in vitro</i>
17	M. Ghias (PhD, 2001)	Monte Carlo Simulation of Non-Linear Free Radical Polymerization Using a Percolation Kinetic Gelation Model
18	F. Abbasi (PhD, 2002)	Bulk and Surface Modification of Silicon Rubber for Biomedical Applications

	Graduated Students	Thesis Title
19	A. Vakili (M.Sc, 2003)	Preparation of Porous Chitosan with Different Molecular Weight Using Lyophilizing System
20	B. Bahrami (PhD, 2003)	Poly (vinyl alcohol)/ Chitosan/ Gelatin Blend Film as Wound Dressing (<i>in vitro</i> & <i>in vivo</i>)
21	H. Nojehdehian (MSc, 2003)	Effect of Fluoride on Properties of Apatite Cement
22	H. Arabi (PhD)	Evaluation of blood Compatibility of Artificial Vascular Graft Based on Carbon Coated Dacron.
23	R. Mehdiavaz (M.Sc)	Enhancement of E- coli Adsorption onto Laser Treated PET Film Surface
24	J. Barzin (PhD)	Preparation and Formulation of Flat and Hollow Fiber Hemodialysis Membrane
25	S. Karbasi (PhD)	Evaluation of Physical Environment Effect on Chondrocyte Cells Seeded onto Porous and Biodegradable Polyurethane Scaffolds
26	M. Khakpour (PhD)	Contraceptive Agents Release from an In Situ Forming Drug Delivery System : <i>In vitro</i>
27	Y. Ghazizadeh (MSc)	Evaluation of Effectiveness of Chitosan Hydrogel to Prevent Lung Fistula from Bleeding and Air Leakage
28	A. Parvin (MSc)	Plasma –Induced Graft Polymerization of Acrylamide onto Silicone Rubber.
29	E. Vahedi Moghadam (MSc)	KrF Laser Induced Nano-Structuring onto Polyethyleneterephthalate (PET) by Different Repetition Rate : Evaluation of the Biocompatibility of the Treated surfaces: <i>in vitro</i>
30	Sh. Bagheri (MSc)	Comparison the Effect of Eximer Laser and RF Plasma on Polystyrene Surface Based on Biocompatibility
31	A. Fakhari (MSc)	Evaluation of Aphthous Fever Virus Realizing from PLGA Nanoparticles
31	A.Sadat Hashemi (MSc)	Preparation of PEG Based Biodegradable Polymeric Networks with Application in Topical Drug Delivery
33	A.R.Toloe (PhD)	UHMWPE/Hydroxy Apatite/PDMS as Hip Joint: Design, Manufacturing and Biocompatibility Evaluation
34	Y. Mohammadi (PhD)	Bone Tissue Engineering Using Chitosan/Gelatin/TCP Porous Scaffolds: <i>In vivo</i> Study
35	E. Nejati (MSc,)	Preparation of Nanocomposite Scaffolds Comprising HA/ PLLA for Bone Tissue Engineering
36	A.Karkhaneh (PhD)	Preparation and Modification of the Surface Properties of PDMS to Immobilize Collagen Cornea Application: <i>in vitro</i> & <i>in vivo</i> .
37	M. Rafeenia (PhD)	Preparation of PLGH-Injectable Implant Delivery System, as <i>in situ</i> Forming for Release of Corticosteroidal Drugs: <i>In vitro</i> & <i>in vivo</i>

	Graduated Students	Thesis Title
38	Sh. Sharifi (PhD)	Synthesis & Characterization of Biodegradable, Injectable Polycaprolactone – Fumarate (PCLF) Based Drug Delivery Systems Containing Anticancer Agent: <i>In vitro</i> & <i>in vivo</i> .
39	S. Eftekhari (MSc)	Plasma surface modification of PET to improve blood compatibility and grafting with acrylic acid and heparin: <i>in vitro</i>
40	E. Dashti Moghadam (MSc)	Chemical Modification of Chitosan (Thiolation) to Enhance Bio-adhesiveness : <i>in vitro</i> & <i>in vivo</i> Assays
41	M. Enayati (MSc)	<i>In situ</i> Forming and Control Released of Leuprolide in the Treatment of Prostate Cancer: <i>in vitro</i> & <i>in vivo</i> Assays
42	M. Zandi (PhD)	Evaluation of Molecular Network Formation of Gelatin and Biomaterialized Gelatin for Biomedical Application : Rheological and NMR Studies
43	H. Syednejad (MSc)	Preparation and Evaluation of Dextran Microspheres as Hemostatic Agent
44	H. Keshvari (PhD)	Collagen Immobilization onto Acrylic Acid Laser-grafted Silicone for Using as Artificial Skin: <i>in vitro</i> & <i>in vivo</i>
45	F. Farahmand (PhD)	Drug Eluting Silicone Elastomer for Biomedical Applications
46	Taghizadeh (PhD)	Effect of Formulation Variables on the Design of an Acrylic/Silicone Pressure Sensitive Adhesive (PSA) System for Transdermal Delivery of Fentanyl
47	P. Shokrolahi (PhD)	Preparation and Characterization of Supra- Molecular Polymers
48	M. Koosha (MSc)	Electron Beam Interaction with PP: Biocompatibility Evaluation of the Branched PP, <i>in vitro</i>
49	M. Pezeshki (MSc)	Preparation and Characterization of Gelatin/Chitosan-Silicone Membrane Bilayer Scaffold for Skin Tissue Engineering
50	A. Talebi (MSc)	Fabrication of Porous Scaffolds Based on PLA by Thermally Induced Phase Separation Method
51	S. Kamrani Kamkar (MSc)	Relationship Between Microstructure and Antibacterial Activity in UV Degradable Interfacially Compatibilized Film Grade LDPE/ TiO ₂ Nanocomposites
52	A. Solouck (PhD)	Surface Modification of a Hybrid Nano-composite Based on PU by Plasma to Improve its Blood Compatibility
53	M. Aghaee (MSc)	Chitosan Hydrogels Containing Glucotime as Wound Healing Agent: <i>In vitro</i> and <i>In vivo</i> Assays
54	E.Babae (MSc)	Skin Tissue Engineering
55	M.Saeed (MSc)	Skin Tissue Engineering
56	F. Shokrolahi (PhD)	Synthesis & Characterization of Biodegradable, Injectable Polyurethane Urea for Bone Tissue Engineering: <i>In vitro</i> & <i>in vivo</i>
57	M.Rastegar (MSc)	Plasma Treated Chitosan films for Wound Healing Applications.

	Graduated Students	Thesis Title
58	A. Sadat Hashemi (Ph.D)	Preparation and Evaluation of a Wound Dressing Hydrogel Based on Chitosan/ Unsaturated Fumarate Polyester
59	A. Mirzaei (MSc)	Plasma Surface Modification of PU/Chitosan Electrospun Mat as a Wound Dressing.
60	H. Peydayesh (MSc)	Preparation and Evaluation of Chitosan/ Alginate Electrospun Mat for Skin Tissue Engineering Applications.
61	J. Kia (MSc)	Design and Fabrication of Chitosan Scaffolds for Treatment of Diabetic Ulcers: Comparison Electrospun Mats with Solvent Casting Membrane
62	M. Saeedi (MSc)	Osteoblast Cell Encapsulation Using Gelatin/Alginate Blend for Bone Tissue Engineering Applications.
63	R.Dimercheli (MSc)	Electrospun Nanofibers Comprising Chitosan/Alginate for Skin Tissue Engineering.
64	H.Mahdavi (Ph.D)	Design and Fabrication of Wound Dressing Films Comprising Chitosan/Collagen/Polyvinyl alcohol/Nano clay: in vitro and in vivo Assays
65	E. Dashti Moghadam (PhD)	Design and Fabrication of Composites Hydrogel Based on Modified Chitosan for Tamoxifen Citrate Delivery to Enhance Wound Healing: <i>in vitro</i> & <i>in vivo</i> Assays.
66	Maryam Mashayekhi (MSc)	Fabrication of nano polymeric scaffolds with large pore sizes using electrospinning
67	M. Pezeshki (PhD)	Electrospun Nanofibers Comprising Chitosan/Gelatin /GAG for Skin Tissue Engineering.
68	M. Koosha (PhD)	Preparation a Nanocoposite Electrospun Comprising Chitosan / Hyaluronic Acid/ and Nanosilicate for Treatment of Diabetic Ulcers
69	B Moghadass (MSc)	Gelatin/Chitosan/Nanoclay Films with Antibacterial Properties for Wound Dressing Applications
70	Z.Bagher (PhD)	Differentiation of Mesenchymal Stem cells (MSCs) derived from Umbilical Cord to Neurons Using PCL/Collagen Scaffolds: In Vitro
71	Z. Jamalpour(PhD)	The Study of Endothelial Cells Effect in differentiation of Warton's Jelly Mesenchymal Stem Cells (MSCs) to Osteoblast on Gelatin/ Chitosan Nano-hydroxyl Apatite Scaffolds :In Vitro
72	M Dadras (MSc)	Silk Nanofibrous Scaffolds with Antibacterials Properties for Wound Dressing Applications
73	S Esfandiarpour (MSc)	Hydrophobic Modified Chitosan Nanoparticles containing Doxorubicin for Breast Cancer Therapy
74	Mahdi Saeed (PhD)	Preparation and Evaluation of 3 Layers Electrospun Mat Based on PCL,PVA Containing Curcumin for Wound Healing Applications: in vitro and in vivo Assays
75	F. Hejazi (PhD)	Fabrication 3D Scaffolds Based On PCL/Corale with High Porosity for Bone Tissue Engineering
76	Nafiseh Olov	Combinational drug delivery for cancer therapy

	Present Students	Research Area
1	Y. Ghazizadeh (PhD)	Preparation & Evaluation of Electrospun Chitosan-based Nanofiber for Wound Dressing Applications.
2	A. Motamedi (PhD)	Nano and Micropatterning on PVDF Electrospun Scaffolds For Nerve Tissue Engineering
3	S.M. Seyed Karimi	Self-Assembled Nano Peptide Scaffolds for Fast Hemostatic Applications
4	Mahmoud Ghafghazi	Injectable systems for drug delivery based on charged nanoparticles
5	Bahar Asaadi	Fabrication and Characterization of cryogels based on nHA/Chitosan/Gelatin for bone tissue engineering
6	Kasra Goudarzi	Injectable cryogels for cartilage tissue engineering applications

اینجانب حمید میرزاده در سال 1329 در سیرجان به دنیا آمدم تا اخذ دیپلم ریاضی در سیرجان تحصیل کردم و پس از آن در دوره کارشناسی شیمی از دانشگاه فردوسی مشهد در سال 1352 فارغ التحصیل شدم و پس از طی دوره سربازی در سال 1354 به عنوان دبیر شیمی در دبیرستانهای سیرجان مشغول به کار شدم. سپس در سال 1355 برای ادامه تحصیلات به تهران آمدم و در پلی تکنیک تهران برای دوره کارشناسی ارشد مهندسی پلیمر پذیرفته و در سال 1357 با معدل (20=A) فارغ التحصیل شدم و از فروردین 1358 بعنوان عضو هیات علمی در دانشگاه شهید باهنر کرمان استخدام شدم. در سال 1373 موفق به دریافت درجه دکترا در همین رشته از دانشگاه نیوساوت ویز استرالیا (UNSW) شدم.

ادامه خدمت در سازمان برنامه و بودجه معاف شدم و بنابراین فرصت بیشتری پیدا کردم تا فعالیت‌های علمی و پژوهشی خود را گسترش داده و در کنار همکاری با مرکز تحقیقات استراتژیک (از سال 1374 تا 1386) در سمت معاون علوم و تکنولوژی در امر نظریه‌پردازی برای توسعه علمی ایران مشغول شدم. اما همچون گذشته در دانشکده‌های مهندسی پلیمر و مهندسی پزشکی دانشگاه صنعتی امیرکبیر و پژوهشگاه پلیمر و پتروشیمی ایران کار تدریس و تحقیق را ادامه می‌دهم که تاکنون چند بار به عنوان پژوهشگر نمونه در دانشگاه صنعتی امیر کبیر و پژوهشگاه پلیمر و پتروشیمی ایران و در سال 1387 نیز به عنوان استاد نمونه کشوری انتخاب شدم.

از سال 1358 تا کنون عضو هیئت علمی دانشگاه شهید باهنر کرمان، عضو هیئت علمی پژوهشگاه پلیمر و پتروشیمی ایران و دانشگاه صنعتی امیرکبیر هستم و اخیرا با دانشگاه علوم پزشکی ایران برای تدریس دوره مهندسی بافت همکاری دارم. مدت 35 سال است که افزون بر کارهای اجرایی متعدد و همزمان به کار تدریس و پژوهش اشتغال داشته و دارم و هم اکنون استاد تمام پایه 40 دانشگاه صنعتی امیرکبیر هستم حاصل فعالیت‌های علمی و پژوهشی اینجانب تا کنون 383 مقاله علمی (172 مقاله در مجلات ISI و علمی پژوهشی و 211 مقاله کنفرانس)، چندین کتاب و گزارش علمی، 31 ثبت اختراع و اجرای ده‌ها پروژه پژوهشی و فارغ التحصیلی بیش از 70 نفر در دوره‌های کارشناسی ارشد و دکتری در رشته مهندسی پلیمر و مهندسی پزشکی بوده است. در حال حاضر بر پایه پایگاه علمی Scopus 2015، h index اینجانب 28 و بر اساس پایگاه google scholar، h index اینجانب 32 است.

از سال 1376 تا سال 1393 از 7 دوره 6 دوره رئیس انجمن پلیمر ایران بودم و طی سالهای گذشته موفق شده ام 9 سمینار بین‌المللی علوم و تکنولوژی پلیمر ایران را برگزار و در انتشار واژه‌نامه پلیمر ایران و نزدیک به 16 جلد از دانشنامه پلیمر ایران و بانک اطلاعات پلیمر ایران با همکاری اعضا انجمن پلیمر ایران توفیق داشته‌ام. همچنین 23 سال دو ماهانه علمی پژوهشی علوم و تکنولوژی پلیمر (فارسی) و 20 سال مجله بین‌المللی **Iranian Polymer Journal** (تنها مجله ماهانه ISI ایران) را در سمت مدیر مسئول و سردبیر منتشر نموده‌ام. اخیرا هم با موافقت دانشگاه آزاد اسلامی و انتشارات بین‌المللی **Springer** کار تاسیس یک ژورنال بین‌المللی بنام **Progress in Biomaterials** و به عنوان مدیر مسئول آن ژورنال را شروع کرده‌ام که اولین شماره آن در ماه سپتامبر 2012 منتشر شده است.

در سال 1386 با دعوت حضرت آیت الله هاشمی رفسنجانی رئیس محترم هیات موسس و هیات امنای دانشگاه آزاد اسلامی و با تصویب شورای عالی انقلاب فرهنگی به عنوان عضو هیات موسس دانشگاه آزاد اسلامی و دبیر این هیات و با تصویب هیات موسس عضویت هیات امنای دانشگاه درآمده و در این مجموعه بی نظیر علمی که بزرگترین دستاورد علمی فرهنگی انقلاب اسلامی و بزرگترین دانشگاه حضوری جهان است افتخار خدمتگزاری دارم. بررسی پژوهش ایران در سالهای برنامه پنجساله چهارم توسعه کشور برای تمام بخشهای خصوصی و دولتی برای اولین بار بعنوان یک طرح ملی و تهیه اساسنامه جدید دانشگاه آزاد اسلامی از اقدامات مهمی بود که در دبیرخانه دانشگاه آزاد اسلامی انجام شد. اخیرا نیز موفق شدیم تا با همکاری ریاست دانشگاه آزاد اسلامی و معاون پژوهشی دانشگاه و رئیس دفتر ریاست هیات امناء آیین نامه تشکیل هیاتهای امناء استانها و نیز برنامه پنجساله 1394-1390 و برنامه استراتژیک دانشگاه آزاد اسلامی تا افق 1404 را تهیه و تدوین و به تصویب هیات موسس و هیات امنای دانشگاه برسانیم. از مهر ماه سال 1392 مسئولیت ریاست دانشگاه آزاد اسلامی از طرف هیات امناء این دانشگاه و تصویب شورای عالی انقلاب فرهنگی به بنده محول گردیده است.

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وَمَا تَوْفِيقِي إِلَّا بِاللَّهِ، عَلَيْهِ تَوَكَّلْتُ وَإِلَيْهِ أُنِيبُ.

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