

بنام خداوند جان و خرد



بیوگرافی دکتر حمید میرزاده استاد (پایه ۳۴) عضو هیات علمی پژوهشگاه پلیمر و پتروشیمی

ایران و دانشکده مهندسی پلیمر دانشگاه صنعتی امیرکبیر

رییس انجمن پلیمر ایران، رییس پژوهشگاه پلیمر و پتروشیمی ایران

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• نام پدر ابوالقاسم ، سال تولد : ۱۳۲۹ ، متاهل ، محل تولد - سیرجان

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• سوابق تحصیلی:

مقطع تحصیلی	محل اخذ مدرک		سال اخذ مدرک	موضوع رساله
	کشور	دانشگاه		
کارشناسی ارشد	ایران	امیرکبیر	۱۳۵۷	طراحی و ساخت کامپوزیت‌ها بر پایه پلی‌استر و یاف‌کنف
دکترای	استرالیا	نیوساوت ویلز	۱۳۷۳	بررسی زیست‌سازگاری الاستومر EPR پیوندخورده با هیدروژل‌ها به کمک اشعه لیزر

• زمینه تخصصی:

پلیمر های زیست سازگار (Polymeric Biomaterials) مبحث زیست سازگاری (Biocompatibility)

مهندسی بافت (Tissue Engineering) اصلاح خواص سطحی و آنالیز سطوح بیومتریالها

(Biomaterials Surface Modification and Characterization)

سوابق آموزشی و پژوهشی: ۳۱ سال: از سال ۱۳۵۸-۱۳۶۴ دانشگاه شهید باهنر

از سال ۱۳۷۳- تا کنون (۱۳۸۹) دانشگاه صنعتی امیر کبیر و پژوهشگاه پلیمر و پتروشیمی ایران

فعالیت های آموزشی:

- تدریس ۱۵ واحد در دانشکده های مهندسی پزشکی و مهندسی پلیمر و پژوهشگاه پلیمر و پتروشیمی ایران برای دوره های کارشناسی، کارشناسی ارشد و دکتری - شامل درس: مهندسی بافت (۳ واحد)، مبحث زیست سازگاری (۳ واحد)، روشهای نوین برای آنالیز سطوح بیومتریالها (۳ واحد) و پلیمرها در پزشکی (۳ واحد)، روشهای اصلاح سطوح پلیمرها (۳ واحد).

فعالیت های پژوهشی

اجرای ۵۷ پروژه پژوهشی:

۱- طرح ملی تولید پلیمرهای زیست سازگار 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 بین المللی خوارزمی سال ۱۳۷۳).

۲- طرح ملی حلزون شنوائی (برنده جایزه جشنواره بین المللی رازی سال ۱۳۸۲) نتایج این طرح در آمریکا و اروپا ثبت اختراع شده است.

۳- طرح ملی طراحی و ساخت چسب طبی زیست سازگار و زیست تخریب پذیر که نتایج آن به تایید وزارت بهداشت و درمان ج.ا. رسیده است.

۴- طراحی و ساخت غشاء پلی سولفونی برای کاربرد در دیالیز کلیه (برنده جایزه جشنواره بین المللی رازی سال ۱۳۸۵)

۵- طراحی و ساخت ظروف کشت سلولی (برنده جایزه جشنواره بین المللی رازی سال ۱۳۸۶)

۶- اجرای طرح پوشش الکتروود رهاینده داروی ضد التهاب (Corticosteroid)، حلزونی شنوائی به سفارش شرکت اتریشی MED-EL با گرانت ۹۳۰۰۰ دلار، نتایج این طرح در آمریکا ثبت اختراع شده است (شروع سال ۱۳۸۶) فاز ۱.

۷- اجرای طرح پوشش الکتروود رهاینده داروی ضد التهاب (Corticosteroid)، حلزونی شنوائی به سفارش شرکت اتریشی MED-EL با گرانت ۹۶۰۰۰ یورو، این طرح در دست اجراست (شروع سال ۱۳۸۷) فاز ۲.

۸- استاد راهنما یا مشاور پروژه های کارشناسی ارشد یا دکتری (۵۰ پروژه بشرح جدول زیر)

سوابق و خدمات علمی- پژوهشی:

- موسس و بنیانگذار مرکز تحقیقات پلیمر ایران (پژوهشگاه پلیمر و پتروشیمی ایران)

- موسس و بنیانگذار شهرک‌های تحقیقاتی پژوهش (تهران) و کاوش (کرج)
- موسس و بنیانگذار مرکز رشد فناوری پلیمر
- مدیر مسئول و عضو هیئت تحریریه مجله علوم و تکنولوژی پلیمر از سال ۱۳۶۹ تاکنون
- مدیر مسئول و سردبیر **Iranian polymer Journal** از سال ۱۳۷۳ تاکنون (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 ۱۳۸۵ انتخاب شد).
- رئیس انجمن پلیمر ایران
- عضو هیئت علمی دانشکده‌های مهندسی پلیمر و مهندسی پزشکی دانشگاه صنعتی امیرکبیر
- موسس و مسئول آزمایشگاه لیزر پلیمر در سازمان انرژی اتمی ایران
- موسس و مسئول آزمایشگاه مهندسی بافت در دانشکده مهندسی پزشکی دانشگاه صنعتی امیر کبیر
- موسس و مسئول آزمایشگاه بیوپلیمر در دانشکده مهندسی پلیمر دانشگاه صنعتی امیر کبیر
- مدیر گروه بیومتریال پژوهشگاه پلیمر ایران
- رئیس پژوهشگاه پلیمر و پتروشیمی ایران
- عضو انجمن بیومتریال آمریکا (**Society for Biomaterials**).
- عضو انجمن شیمی و مهندسی شیمی ایران
- عضو انجمن سامانه‌های نوین داروسازی ایران
- عضو هیئت تحریریه مجله انجمن شیمی ایران
- عضو هیئت علمی صندوق حمایت از پژوهشگران ریاست جمهوری
- عضو هیئت امناء پژوهشگاه پلیمر و پتروشیمی ایران
- عضو هیئت امناء مرکز بین‌المللی علوم و تکنولوژی پیشرفته و علوم محیطی، در وزارت علوم، تحقیقات و فناوری
- عضو هیئت امناء پژوهشگاه استاندارد ایران
- دبیر و عضو هیات موسس دانشگاه آزاد اسلامی
- عضو هیات امناء مرکزی دانشگاه آزاد اسلامی
- عضو کمیسیون گسترش دانشگاه آزاد اسلامی
- داوری مقالات علمی برای ژورنال‌های علمی داخلی و خارجی بشرح ذیل :

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.

4- Iranian Polymer Journal (English), Published by the Iran Polymer & Petrochemical Institute (IPPI).

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 (JIPS-Persian), Published by the Iranian Polymer Society.
- 8 Iranian Journal of Chemistry & Chemical Engineering (English & Persian), Published by Jahad Daneshgahi .
- 9- Journal of Iranian Medical Engineering Society, (Persian),
- 10- Journal of the Iranian chemical society (JICS) , Published by the Iran chemical society.
- 11- Carbohydrate Polymers, Published by Elsevier.
- 12- Journal of Biomedical Materials research, PartA, Published by John Wiley

جوایز

- پژوهشگر نمونه سال ۱۳۸۳ دانشگاه صنعتی امیر کبیر
- پژوهشگر نمونه سال ۱۳۸۴ پژوهشگاه پلیمر و پتروشیمی ایران
- برگزیده بعنوان بهترین سخنران سمینار بین المللی ISPST-2005 تهران دانشگاه صنعتی امیر کبیر مهرماه ۸۴
- مدیر پژوهشی برتر مؤسسات پژوهشی کشور برگزیده هفتمین جشنواره پژوهش و فناوری سال ۱۳۸۵
- پژوهشگر نمونه سال ۱۳۷۸ پژوهشگاه پلیمر و پتروشیمی ایران
- استاد نمونه کشوری سال ۱۳۸۷

انتشار مقالات و کتابها

- انتشار ۲۸۰ مقاله در ژورنالهای معتبر داخلی و بین المللی (۱۱۸ مقاله) و کنفرانسهای ملی و بین المللی (۱۶۲ مقاله یا خلاصه)
- تالیف یا ویرایش ۶ جلد کتاب و ۲۹ ثبت اختراع (بشرح زیر)
- آرایه مقاله در ۸۲ کنفرانس ملی یا بین المللی (بشرح زیر)

I: مقالات در ژورنالها

- 1- H. Mirzadeh, et. al, Jute Reinforced Polyester Structures, **J. Polymer Composites**, 5, 141, 1984.
- 2- H. Mirzadeh, et. al, Unsaturated Polyester Resin Bulk Reinforcing by Jute Fibers, **Iranian Journal of Polymer Science and Technology**, 2, 94-97 1989.

- 3- H. Mirzadeh, et. al, CO₂ - Pulsed Laser Induced Surface Grafting of Acrylamide onto Ethylene-Propylene Rubber (EPR), Part I, **Radiat. Phys.Chem.**, **41**, 467-470 **1993**.
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- 5- H. Mirzadeh, Surface Modification of EPR as Biomaterial by Laser Induced Graft Copolymerization of AAm, HEMA, NVP, Part IV, Effect of Laser Parameters and Photoinitiators, **Iranian Journal of Polymer Science and Technology**, **6**, 4-16 **1993**.
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- 18- H. Mirzadeh, et. al, Laser Surface Modification of Polymers: A Novel Technique for the Preparation of Blood Compatible Materials- (II) *in vitro* Assay, **Iranian Polymer Journal**,7, 5-13 **1998**.
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II: مقالات در کنفرانسها

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- 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 as *In situ* Forming and DDS Device, **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**.

پروژه های تحقیقاتی انجام (C) و یاد در دست انجام (CR):

V: بعضی شده

1. **Cartilage Tissue Engineering** Using Perforated Polyurethane or Porous Chitosan (*in vitro & in vivo* Assays). (C)
2. Design and *in vitro & in vivo* Assays of **Artificial Skin** based on PVA, Collagen and Chitosan Composite. (C)
3. Optimization of Chitosan Porosity and Pore Size Choosing Different Molecular Weight for **Tissue Engineering** . (C)
4. Fabrication of Porous Polyethylene and Persian Gulf Coral as a Biomaterial for **Maxillofacial Surgery** Purposes: *in vitro*. (C)
5. Design and manufacturing of a Semi-Industrial **Pyrocarbon** Pilot Plant for Medical Purpose. (CR)
6. Evaluation of Physical Environment effect on **Chondrocyte cells** Seeded onto Porous and Biodegradable Polyurethane Scaffolds. (C)
7. Enhancement of **E- Coli Adsorption** onto PET Film Surface Using Excimer Laser. (C)
8. Preparation and Formulation of Flat and Hollow Fiber **Hemodialysis Membrane** . (C)
9. Design and *in vitro & in vivo* Assessment of Artificial Heart's **Pericardium Membrane**. (C)
10. Tissue Engineering of **Artificial Skin** Using Laser Treated PDMS and AAc/Collagen blends: *in vitro & in vivo* . (C)
11. Design and *in vitro & in vivo* Assays of **Artificial Vascular Grafts** *in vitro & in vivo*. (C)
12. Design and *in vitro & in vivo* Assays of **Artificial Cornea** using PHEMA//Collagen/PMAAc Blends (C)
13. Design and *in vitro & in vivo* Assays of **Medical Adhesive** composites using PU/Chitosan to Stop Severe Bleeding. (C)
14. Evaluation of Chitosan Gel as **Alveolar Fistula Sealing** : *in vivo* Study. (C)
15. Design and *in vitro* Assessment of Eye Valve for **Glaucoma Treatment**. (C)

16. Biocompatibility Evaluation of RF **Plasma Treated Polystyrene**, *in vitro* .(C)
17. Grafting of Hydrogels by Laser on Polymers in Uses of Biocompatibility and **Blood Compatibility**.(C)
18. Preparation of **PLGH-Injectable Implant Delivery System**, as *in situ* Forming for Release of Corticosteroidal Drugs: *In vitro & in vivo*. .(C)
19. Design and manufacturing of **Cryogenic Hydrogels** Used in Cold Operational Surgeries and Maintaining the Fresh Cells and Tissues.(C)
20. Design and manufacturing of O-Ring for **Dialysis Filter**.(C)
21. Dynamic Oscillatory **Rheology of Gelatin Solution** in Different Temperatures. .(C)
22. Contraceptive Agents Release from an In Situ Forming **Drug Delivery System** : *In vitro*.(C)
23. Design of a Semi-Industrial Production Pilot Plant for Preparation of **Chitin and Chitosan** of the Shrimps' Shell of Persian Gulf with high degree of deacetylation (for chitosan) and Medium Molecular Weight.(C)
24. **Plasma** -Induced Graft Polymerization of Acrylamide onto Silicone Rubber. (C)
25. Chemical Modification of Chitosan (Thiolation) to Enhance Bio-adhesiveness : *in vitro & in vivo* Assays.(C)
26. Design and *in vitro & in vivo* Assays of **Polyester Vascular Grafts Coated with Graphite**.(C)
27. Bone Tissue Engineering Using Chitosan/Gelatin/TCP Porous Scaffolds: *In vitro & in vivo* Study.(C)
28. UHMWPE/Hydroxy Apatite/PDMS as **Artificial Hip Joint**: Design, Manufacturing and Biocompatibility Evaluation. (C)
29. Drug Eluting Silicone elastomer for Biomedical Applications. (CR)
30. Effect of Formulation Variables on the Design of an Acrylic/Silicone Pressure Sensitive Adhesive (PSA) System for Transdermal Delivery of Fentanyl. (C)

استاد راهنما یا مشاور ۵۰ پروژه کارشناسی ارشد یا دکتری بشرح ذیل:

SUPERVISING OF THE GRADUATED STUDENTS:

Students Graduated	Thesis Title
S=Supervisor A= Adviser	
1. A.R. Ekbatani (MSc., 1995) S	Laser Grafting of Acrylic Acid onto EPR
2.M.R. Rezaee Darvish (MSc., 1997) S	Preparation and Investigation of Physical and Mechanical Properties of Biocompatible Blend Based on PDMS/PHEMA
3.M. Mehralipour (MSc., 1998) S	Evaluation of Platelet Activation onto Laser Grafted Acrylic Acid-EPR (<i>in vitro</i>)
4.M.T.Khorasani (Ph.D, 1997)	PDMS Surface Modification by Laser Irradiation: A Novel

S	Technique for the Preparation of Blood Compatible Polymers (in <i>vitro</i> & <i>in vivo</i>)
5.A. Sheikholmoloki (MSc., 1998) A	Theoretical and Experimental Investigation of Protein Adsorption on Soft Contact Lenses, <i>in vitro</i>
6.M. Mohseni (MSc, 2000) S	Evaluation of Physical, Mechanical and Electrical Properties of Elastomeric Blend based on PDMS/EPR
7.N.Shikh (Ph.D, 2000) S	Isocyanate-Terminated Urethane Prepolymer as Bioadhesive Material: Synthesis and Characterization and Biocompatibility Evaluation (<i>in vitro</i> & <i>in vivo</i>)
8.M.Dadsetan (Ph.D, 1999) S	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) S	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) A	Design and Fabrication of an Orthopedic Plate Based on Polymeric Composites
11. R.Motazaker (MSc., 1999) A	Preparation of Hydrophilic Vulcanized Networks Based on Polychloroprene- Poly HEMA Blends
12. H.Keshvari (MSc., 2000) S	PDMS Surface Laser Grafting Using Acrylic Acid for Collagen Immobilization (<i>in vitro</i>)
13. M.R.Jafari (MSc., 2000) S	Manufacturing of a Polymeric Ocular Prosthesis for Therapy of Glaucoma, (<i>in vitro</i> & <i>in vivo</i>)
14. D.Falahi (MSc., 2001) S	Physical, Mechanical and Biocompatibility Evaluation of Three Different Types of Silicone Rubber (<i>in vitro</i>)
15. F.Shokrolahi (MSc., 2001) S	Effect of Silicone Rubber Crosslink Density on Fibroblast Cells Behavior: <i>in vitro</i>
16. R. Ghavamzadeh (MSc.2001) A	Bioadhesion and Biocompatibility Evaluation of Gelatin and Polyacrylic Acid as a Crosslinked Hydrogel: <i>in vitro</i>
17. M.Ghias (Ph.D, 2001) A	Monte Carlo Simulation of Non-Linear Free Radical Polymerization Using a Percolation Kinetic Gelation Model
18. F.Abbasi (PhD, 2002) S	Bulk and Surface Modification of Silicon Rubber for Biomedical Applications
19. A. Vakili (M.Sc, 2003) S	Preparation of Porous Chitosan with Different Molecular Weight Using Lyophilizing System
20. B.Bahrami (PhD, 2003) S	Poly (vinyl alcohol)/ Chitosan/ Gelatin Blend Film as Wound Dressing (<i>in vitro</i> & <i>in vivo</i>)
21. H. Nojehdehian (MSc, 2003) A	Effect of Fluoride on Properties of Apatite Cement
22. H.Arab (Ph.D,) S	Evaluation of blood Compatibility of Artificial Vascular Graft Based on Carbon Coated Dacron.
23.R. Mehdinavaz (M.Sc,) S	Enhancement of E- coli Adsorption onto Laser Treated PET Film Surface
24. J. Barzin (PhD,) S	Preparation and Formulation of Flat and Hollow Fiber Hemodialysis Membrane
25. S.Karbasi (Ph.D,) S	Evaluation of Physical Environment Effect on Chondrocyte Cells Seeded onto Porous and Biodegradable Polyurethane Scaffolds
26. M. Khakpour (Ph.D,) A	Contraceptive Agents Release from an In Situ Forming Drug Delivery System : <i>In vitro</i>
27. M .Ghazizadeh (M.Sc,) S	Evaluation of Chitosan Gel as Alveolar Fistula Sealing : <i>in vivo</i> Study
28.A.Parvin (MSc,) S	Plasma -Induced Graft Polymerization of Acrylamide onto Silicone Rubber.

29 E. Vahedi Moghadam (MSc,) S	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 Shadab Bagheri (MSc,) S	Comparison the Effect of Eximer Laser and RF Plasma on Polystyrene Surface Based on Biocompatibility
31A. Fakhari (MSc,) S	Evaluation of Aphthous Fever Virus Realizing from PLGA Nanoparticles
32 A.Sadat Hashemi(MSc,) S	Preparation of PEG Based Biodegradable Polymeric Networks with Application in Topical Drug Delivery
33.A.R.Toloe (Ph.D,) S	UHMWPE/Hydroxy Apatite/PDMS as Hip Joint: Design, Manufacturing and Biocompatibility Evaluation
34. Y. Mohammadi (Ph.D,) S	Bone Tissue Engineering Using Chitosan/Gelatin/TCP Porous Scaffolds: <i>In vivo</i> Study
35. E. Nejati (MSc) S	Preparation of Nanocomposite Scaffolds Comprising HA/ PLLA for Bone Tissue Engineering
36.A.Karkhaneh (Ph.D)S	Preparation and Modification of the Surface Properties of PDMS to Immobilize Collagen Cornea Application: <i>in vitro & in vivo</i> .
37. M. Rafeenia (Ph.D) S	Preparation of PLGH-Injectable Implant Delivery System, as <i>in situ</i> Forming for Release of Corticosteroidal Drugs: <i>In vitro & in vivo</i>
38.Sh. Sharifi (Ph.D) S	Synthesis & Characterization of Biodegradable, Injectable Polycaprolactone – Fumarate (PCLF) Based Drug Delivery Systems Containing Anticancer Agent: <i>In vitro & in vivo</i>.
39.S. Eftekhari (MSc) S	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) S	Chemical Modification of Chitosan (Thiolation) to Enhance Bio-adhesiveness : <i>in vitro & in vivo</i> Assays
41. M.Enayati (MSc) A	<i>In situ</i> Forming and Control Released of Leuprolide in the Treatment of Prostate Cancer: <i>in vitro & in vivo</i> Assays
42. M.Zandi (Ph.D) S	Evaluation of Molecular Network Formation of Gelatin and Biomaterialized Gelatin for Biomedical Application : Rheological and NMR Studies
43. H.Syednejad (MSc) A	Preparation and Evaluation of Dextran Microspheres as Hemostatic Agent
44.H.Keshvari (Ph.D) S	Collagen Immobilization onto Acrylic Acid Laser-grafted Silicone for Using as Artificial Skin: <i>in vitro & in vivo</i>
45 F. Farahmand (Ph.D) S	Drug Eluting Silicone elastomer for Biomedical Applications
46 Taghizadeh (Ph.D) S	Effect of Formulation Variables on the Design of an Acrylic/Silicone Pressure Sensitive Adhesive (PSA) System for Transdermal Delivery of Fentanyl
47.P.Shokrolahi (Ph.D)S	Preparation and Characterization of Supra- Molecular Polymers
48 M. Kosha (MSc) S	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) A	Fabrication of Porous Scaffolds Based on PLA by Thermally Induced Phase Separation Method
51.S. Kamrani Kamkar (MSc) S	Relationship between Microstructure and Antibacterial Activity in UV degradable Interfacially Compatibilized Film Grade LDPE/TiO ₂ Nanocomposites
Present Graduate Students	Research Area
1.F. Shokrolahi (PhD) S	Synthesis & Characterization of Biodegradable, Injectable Polyurethane Urea for Bone Tissue Engineering: <i>In vitro</i> & <i>in vivo</i>
2.M. Aghaee (MSc) S	Chitosan Hydrogels Containing Glucontime as Wound Healing Agent: <i>In vitro</i> and <i>In vivo</i> Assays
3.E. Dashti Moghadam (PhD) S	Composites Based on Chitosan to Enhance Wound Healing: <i>in vitro</i> & <i>in vivo</i> Assays
4. A.Sadat Hashemi (PhD) S	Skin Tissue Engineering
5. M.Pezeshki (PhD) S	Skin Tissue Engineering
6.E.Babae (MSc) S	Skin Tissue Engineering
7.M.Saeed (MSc) S	Skin Tissue Engineering

VII: شرکت در کنفرانسهای ملی و بین المللی علمی برای ارائه مقالات (۸۲ کنفرانس)

NATIONAL AND INTERNATIONAL CONFERENCES ATTENDED

- 1- 2nd International Conference on Reconstruction of the War - Damage Areas, **Tehran, Iran, 5-15 Jan. 1991.**
- 2- 8th International Meeting on Radiation Processing. **Beijing, China, Sep. 1992.**
- 3- 7th National Congress of Chemistry and Chemical Engineering. **Isfahan, Iran, Sep. 1992.**
- 4- The Fourth International Conference on Radiation Curing (RadTech Asia 93). **Tokyo, Japan, Nov. 1993.**
- 5- 2nd A.N.A.I.C. International Conference on Materials Science and Environmental Chemistry of Main Group Elements. **Kuala Lumpur, Malaysia, Nov. 1993.**
- 6- 2nd International Conference on Lasers and Their Applications. (Conference chairman and organizer) **Tehran, Iran, Aug. 1993.**
- 7- 3rd Pacific Polymer Conference (PPC). **Gold Coast, Australia, Dec. 1993.**
- 8- First International and 8th National Congress of Chemistry and Chemical Engineering, **Tehran, Iran, Sep. 1993.**
- 9- International Seminar of Polymer Science and Technology, (conference chairman and organizer), **Shiraz, Iran, May 1994.**
- 10- 9th International Meeting on Radiation Processing. **Ankara, Turkey, Sep. 1994.**

- 11- The fifth International Conference on Radiation Curing (Rad Tech Asia' 95).
Guilin, China 1995.
- 12- 10th International Conference on Surface Modification Technology, (SMT- X),
Singapore, 2-4 Sep. 1996.
- 13- 8th Iranian Conference on Biomedical Engineering, Amirkabir University, Dec.
ICEME, **Tehran, Iran, 19-23 Dec. 1996.**
- 14-3rd International Conference on Reconstruction of the War - Damage Areas,
Tehran, Iran, 2-8 Mar. 1997.
- 15-1st National Seminar on Interaction of Laser Beam and Polymers, (conference
chairman and organizer), Tehran, **Iran, 30 Apr. - 1 May 1997.**
- 16-Global Knowledge'97, Knowledge for Development in the Information Age,
Toronto, Canada, 22-25 Jun. 1997.
- 17- International Seminar on Polymer Science and Technology' 97, (conference
chairman and organizer), Tehran, **Iran, 3-5 Nov. 1997.**
- 18- 4th International Seminar on Polymer Science and technology, Iran Polymer &
petrochemical Institute, **Tehran, Iran, 3-5 Nov. 1997.**
- 19- 9th "Tihany" Symposium on Radiation Chemistry, **Tata, Hungary, 29 Aug. - 3
Sep. 1998.**
- 20- 3rd International Symposium Molecular Mobility and Order in Polymer Systems,
St.Petersburg, Russia, 7-10 Jun. 1999.
- 21-13th International Conference on Surface Modification Technologies, **Singapore,**
8-10 Sep. **1999.**
- 22- International Symposium on Biomaterials and DDS, **Cheju, Korea, Aug. 2000.**
- 23-Iranian Seminar on Polymer Science and Technology (Fifth), (conference
chairman and organizer), **Tehran, Iran, 12-14 Sep. 2000.**
- 24-14th International Conference on Surface Modification Technologies, **Paris, 11-13
Sep. 2000.**
- 25- International Conference on Radiation and its Role on Diagnosis and Health,
Tehran, 18-20 Oct. 2000.
- 26-3rd Iran Petrochemical Forum (IPF), **Tehran, Iran 5-6 May 2001.**
- 27-6th National Congress on Chemical Engineering, **Isfahan, Iran, 8-11 May 2001.**
- 28- 6th International Conference on Radiation Curing (RadTech Asia 2001),
Kunming, China, 15-19 May 2001.

- 29- International Conference on Materials for Advanced Technologies (**ICMAT 2001**) **Symposium B Biomaterials and Tissue Engineering, Singapore, 1-6 Jul. 2001.**
- 30-10th Iranian Conference of Biomedical Engineering, **Tehran, Iran, 31 Oct. 2001.**
- 31- First International Symposium on Cochlear Implant and Related Sciences, **Tehran, Iran, Apr. 2002.**
- 32- First National Conference on Lasers in Medicine and Biomedical Engineering, **Tehran, Iran, 1-2 May 2002.**
- 33- International Cartilage Repair Society, 4th Symposium, **Toronto, Canada, 15- 18 Jun. 2002..**
- 34- XXIX European Society for Artificial Organs (ESAO) , **Austria, Vienna, 28-31 Aug. 2002.**
- 35- 10th "Tihany" Symposium on Radiation Chemistry, **Sopron, Hungry, 31 Aug.- 5 Sep. 2002.**
- 36-7th National Iranian Chemical Engineering Congress, **Tehran, Iran, 28-31 Oct. 2002.**
- 37- 17th European Conference on Biomaterials, **Barcelona, Spain, 11- 14 Sep. 2002.**
- 38-12th Oil, Gas and Petrochemical Congress (Gas Conversion) International , **Iran, Tehran, 23-24 Feb. 2003.**
- 39- 6th Iranian Seminar Polymer Science and Technology, **Tehran, Iran, 12-15 May 2003.**
- 40-17th International Conference and Exhibition on Electricity Distribution (CIREN), **Barcelona, Spain 12-15 May 2003.**
- 41-XXX European Society for Artificial Organs (ESAO) , **Aachen, Germany 3-6 Sep. 2003.**
- 42-Third Congress of Iranian Society of Cardiac Surgeons, **Tehran, Iran , 23-26 Sep. 2003.**
- 43 Fifth International Membrane Science and Technology, **Sydney , Australia, 10-14 Nov.2003.**
- 44-11th Iranian Conference on Biomedical Engineering (ICBME04),**Tehran, Iran, 17-18 Feb. 2004.**
- 45-7th World Biomaterials Congress, Sydney, **Australia, 17-21 May 2004.**
- 46-World Polymer Congress, Macro 2004, **Paris, France, 4-9 Jul. 2004.**

- 47- XXXI European Society for Artificial Organs(ESAO) Congress, **Warsaw, Poland** 8-11 Sep. **2004**.
- 48-4th International Symposium on Pharmaceutics, **Istanbul- Turkey**, 20-22 Sep. **2004** .
- 49-Euromembrane 2004 , **Hamburg, Germany**, 28Sep.- 1Oct.**2004** .
- 50- 9th National Congress on Chemical Engineering (IChEC9), **Tehran, Iran**, 22-25 Nov. **2004**.
- 51- 14th Iranian Congress of Ophthalmology, **Tehran, Iran**, 14-17 Dec. **2004**.
- 52- 10th International Conference on Radiation Curing (Rad Tech Asia'2005), **Shanghai, China**, 23-26 May **2005**.
- 53- 7th **National Congress on Cardiovascular Update**, pp. 22-23 Tehran, Iran, 17-20 Jun. 2005.
- 54- **5th CITEM 2005 , 5th Ibero American Congress on Membrane Science and Technology**, P1.26, Valencia, Spain, 6-8 **Jul. 2005**.
- 55-4th Annual Meeting of the European Tissue Engineering Society Munich, Germany, Aug.31st –Sep.3rd, 2005.
- 56-7th International Seminar on Polymer Science and Technology (ISPST 2005), Tehran, Iran, 27-29 Sep. 2005.
- 57- 20th European Conference On Biomaterials **ESB 2006**, Nantes, France September 27th - October 1st , **2006**.
- 58- European Society for Biomaterials (**ESB 2006**) , Nantes, France September 27 - October 1, **2006**.
- 59- **IEEE 2006**, The 28th Annual International Conference of the IEEE Engineering in Medicine and Biology Society , New York, 30th Aug.- 3rd of September, **2006**.
- 60- 11th Tihany Symposium on Radiation Chemistry, p.84, **26-31 August Eger, Hungary, 2006** .
- 61- International Society European Chapter Meeting 2006,TERMIS , Rotterdam, The Netherlands, October 8-11, **2006**.
- 62- Polymer in Pharmacy, Halle/Saale (Germany), September 24-26, **2006**.
- 63- XXIV Congress of the ESCRS LONDON, 9-13 September, **2006**.
- 64- 20th European Conference on Biomaterials, Nantes-France, September 27th – October 1st , **2006**.

- 65 Tissue Engineering, Biopolymers ,Nanotechnology and Stem Cell Technology, National Symposium, Tehran, 2 Jan. **2007**.
- 66-The Fifth IASTED International Conference on Biomedical Engineering ~BioMED 2007~, Innsbruck, Austria, February 14 – 16, **2007**.
- 67- CRS for the 34th Annual Meeting & Exposition in Long Beach, , California, USA, July 7-11, **2007**.
- 68- XXXIV ESAO Congress , Krems-Austria, 5-8 Sep. **2007**.
- 69- ISPST 2007, Tehran., Iran, 23-25 Oct. **2007** .
- 70-Biomaterials Iran's 1st International Conference, Tehran, Iran, 12-15 **Nov. 2007**.
- 71- International Conference on Biohydrogel, VIAREGGIO (Lucca, Italy), 14-18 **Nov. 2007**.
- 72-14th Iranian Conference on Biomedical Engineering, (ICBME 2008), Tehran, Iran, 13-14 Feb. 2008.
- 73-6th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology Spain 7- 10 April **2008**.
- 74- 2nd Conference on Nanostructures (NS2008, Kish University, Kish Island, Iran 11-14 Mar. **2008**.
- 75- 8th World Biomaterials Congress, Amsterdam RAI, the Netherlands, 28 May – 1 June **2008**.
- 76- Inner Ear Biology Workshop, Ferrara, Italy, Sep. 21- 24, **2008**.
- 77-International Society for Applied Cardiovascular Biology (ISACB), ISACB's 11th Biennial Meeting in Bordeaux, France, Sept. 17-20, 2008 .
- 78- Hearing Preservation Workshop VII, University of Kansas, Kansas City, Kansas, USA. Oct. 16-19, **2008**.
- 79-4th European Congress for Medical and Biomedical Engineering 2008, Antwerp, 23-27 Nov. **2008**.
- 80- the 36th Annual Meeting & Exposition of the Controlled Release Society in Copenhagen. July 18-22, 2009 • Bella Center • Copenhagen, Denmark.
- 81- XXXVI ESAO Congress , Compiègne- France, 2-5 Sep. **2009**.
- 82- 9th International Seminar on Polymer science and technology (ISPST 2009), 17- 21 Oct. 2009, Tehran, Iran.

ACKNOWLEDGMENT

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I would like to appreciate my colleagues or students who were participated and cooperated with some parts of my works and publications:

I-Professor M.A. Semsarzadeh, Professor R.P.Burford, Professor A.A.Katbab, Professor P.G. Sammes, Professor N. Sharifi-Sanjani, Professor A.A. Entezami, Prof. H.Ahmadi, Prof. H. Mirkhani, Prof. M.A.Mohagheghi, Dr. S.Amanpour, Dr. M.Daliri, Dr. Sh. Rabbani, Dr. P.Salehian, Dr. R. Sedighi Mr. F. Soltamoradi, Mrs. N.Yaghobi, Mr. F.Hormozi, Dr. M.Mehrabzadeh, Dr. E. Jabbari, Ms. P.Shokrolahi, Dr. G. R. Bakhshandeh, Mr. B. Sadatnia, Prof. S. Madaeni, Dr. V. Hadai-Asl , Dr. S.SH. Hoseini., Prof. P. Mansouri, Dr. Alireza Ghaffariyeh, Dr. F. Orang , Dr.H.Mobedi , Dr.M.Imani., A. Abdi., Dr. M.Soleimani, Professor E. Vasheghani Frahani, Professor F. Moztarzadeh, Dr. M.R. Baghban Eslaminejad, Dr. H. Yeganeh ,Dr. M. Zohorian – Mehr, Dr.M.Farhadi and Dr.C.Jolly.

II- Dr. M.T. Khorasani, Dr. M.Dadsetan, Dr. N. Shikh, Dr. F. Abbasi, Dr.B.Bahrami, Ms. D. Falahi, Ms. F.Shokrolahi, Mr. A.R. Ekbatni, Mr. M. Rezaee Darvishi, Mr. M.R. Jafari, Ms. M.Mohseni, Mr. R. Motazaker, Dr. H.Arab, N, Dr. M. Ghias, Dr. H. Keshvari, M. Mehralipour, Mr. S.Kheirandish, Mrs. R. Ghavamzadeh, Mr. H.Vakili, Mr. A. Sheikholmoloki, Mr. A.R. Sadegee ,Dr. J. Barzin and Ms. Z. Kermani., Mr.R. Mehdivavaz. and Mr. M. Khakpour , M.Zaghiyan, Mr.S. Karbasi, Mr. Y. Mohammadi, Mr. M. Rafienia , Mr.Sh. Sharifi, Mr.A.Karkhaneh, Mr.Y.Ghazizadeh, Ms M. Zandi ,Mr.A.Parvin , Ms. T.Dolatabadi-Farahani, Mr. E. Vahedi- Moghadam,A. Fakhari , Ms S. Bagheri , Mrs A.Solouck, Mrs A. Hashemi, Dr. F.Farahmand, S.M. Taghizadeh,Mr. A. Toolo , Mr. F. Ziaee, A. Jamshidi, Mr.K. Kabiri, Mrs S. Eftekhari , M. Pezeshki, M.Kosha and Hamed Hamishekar.

در باره دکتر حمید میرزاده

دکتر حمید میرزاده در سال ۱۳۲۹ در سیرجان به دنیا آمد. وی مراحل تحصیلی مختلف را طی کرده و پس از اخذ کارشناسی ارشد مهندسی پلیمر خود در سال ۱۳۵۷ از دانشگاه صنعتی امیرکبیر، در سال ۱۳۷۳ موفق به دریافت درجه دکترا در همین رشته از دانشگاه نیوساوت ویلز استرالیا شد. دکتر میرزاده عضو هیئت علمی پژوهشگاه پلیمر و پتروشیمی ایران و دانشگاه صنعتی امیرکبیر است و مدت ۳۰ سال است که افزون بر کارهای اجرایی متعدد به کار تدریس و تحقیق اشتغال دارد.

دکتر میرزاده درکنار فعالیت های علمی و پژوهشی خود که تاکنون منجر به چاپ ۲۸۰ مقاله و چندین کتاب و ثبت اختراع و اجرای دهها پروژه پژوهشی و فارغ التحصیلی نزدیک به ۶۰ نفر در دوره های کارشناسی ارشد و دکتری شده است از سال ۱۳۵۹ تا سال ۱۳۷۶ در دولت های مرحوم شهید رجایی، جناب آقای مهندس میرحسین موسوی و جناب آقای هاشمی رفسنجانی همکاری و فعالیت داشت. وی از معدود

مدیران ارشد کشور بود که با وجود کارهای سخت و سنگین، که یکی از آنها بازسازی مناطق جنگ زده و مسئولیت ستاد بسیج اقتصادی کشور بود، هیچ‌گاه کسوت دانشگاهی خود و دانشگاه را ترک نکرد و به شهادت همه دانشگاهیان در سمت‌های مختلفی که داشت چه در سمت معاون اجرایی نخست وزیر و چه در سمت معاون رئیس جمهور و رئیس سازمان برنامه و بودجه کشور با تمام وجود از امر توسعه علمی و فناوری کشور حمایت و پشتیبانی عملی کرد.

با توجه به نقش مؤثر سازمان برنامه و بودجه، تاسیس معاونت پژوهشی، آموزشی و فرهنگی، که تا سال ۱۳۷۴ در تشکیلات این سازمان وجود نداشت، از اقدام‌های بنیادی و مهم ایشان بود که موجب افزایش شدید بودجه دانشگاه‌ها و مراکز پژوهشی شد مبنای خوبی برای سال‌های بعدی گردید. تدوین برنامه "ایران ۱۴۰۰"، برنامه "اقتصاد بدون نفت" و طرح "فقر زدایی" از دیگر اقدامات مهم نامبرده در دوران تصدی سازمان برنامه و بودجه بود.

در سال ۱۳۶۴ براساس پیشنهاد دکتر میرزاده (معاون اجرایی نخست وزیر وقت) و موافقت نخست وزیر وقت در خصوص لزوم رشد صنایع وابسته به نفت از جمله تولید مواد پتروشیمیایی و مصنوعات پلیمری با شرکت سیاست‌گذاران و دست‌اندرکاران اجرایی، تحقیقاتی و آموزشی کشور کمیسیون هماهنگی علوم و تکنولوژی مواد پتروشیمیایی و صنایع پلیمری تشکیل و مسئولیت ایجاد هماهنگی برای پیش‌برد این امر به عهده ایشان گذاشته شد. با پیشنهاد کمیسیون مزبور و تصویب شورای گسترش آموزش عالی، مرکز تحقیقات و توسعه علوم و تکنولوژی مواد پلیمری و پتروشیمیایی در سال ۱۳۶۵ تاسیس شد که با استقرار در بنای اصلی و توسعه آن در اثر تلاش‌ها و حمایت‌های بی‌دریغ دکتر میرزاده پژوهشگاه پلیمر و پتروشیمی ایران نام گرفت که هم اکنون یکی از پژوهشگاه‌های برتر کشور و بی نظیر در منطقه و کم نظیر در جهان است.

تاسیس شهرک‌های تحقیقاتی پژوهش (تهران) در سال ۱۳۶۴ و کاوش (کرج) در سال ۱۳۶۹ و مرکز رشد فناوری پلیمر در سال ۱۳۸۱ و همکاری با جناب آقای مهندس موسوی در تاسیس موسسه دانش و پژوهش ایران در سمت نایب رئیس هیئت امنای این موسسه و نیز بنیان‌گذاری موسسه توسعه فناوری نخبگان با همکاری دفتر همکاری‌های فناوری ریاست جمهوری و جمعی از وزرای دانشگاهی در سال ۱۳۸۱ نشانگر دل‌مشغولی دکتر میرزاده برای توسعه کشور بر مبنای علم و فناوری است.

هنگامی که وی در سال ۱۳۷۶ سازمان برنامه و بودجه را ترک کرد، فعالیت‌های علمی و پژوهشی خود را گسترش داد و همچون گذشته در دانشکده‌های مهندسی پلیمر و مهندسی پزشکی دانشگاه صنعتی امیرکبیر و پژوهشگاه پلیمر و پتروشیمی ایران کار تدریس و تحقیق را ادامه داد. وی تاکنون چند بار به عنوان پژوهشگر نمونه در دانشگاه صنعتی امیرکبیر و پژوهشگاه پلیمر و پتروشیمی ایران انتخاب شده و در سال ۱۳۸۷ نیز به عنوان استاد نمونه کشوری انتخاب شده است.

دکتر میرزاده از سال ۱۳۷۶ تا ۱۳۸۴ در مرکز تحقیقات استراتژیک در سمت معاون علوم و تکنولوژی در امر نظریه‌پردازی برای توسعه علمی ایران همکاری می‌کرد که در زیر نمونه‌هایی از کارهای ایشان آمده است:

- تدوین مجموعه مقالات کنفرانس توسعه دانش و فناوری در ایران- راهکارهای توسعه علم و فناوری، ۲۶ تا ۲۸ آبان ۱۳۸۳، دانشگاه صنعتی شریف، تهران، ایران.

- تدوین مجموعه مقالات دومین همایش علم و فناوری- آینده و راهبردها از انتشارات مرکز تحقیقات استراتژیک، معاونت علوم و تکنولوژی، ۲۹ و ۳۰ بهمن ۱۳۸۲، تهران، ایران.

- گزارش نقش 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 ۷۹-۸۷، ۱۳۸۱، تهران، ایران.

- گزارش توسعه کشور با محوریت علم و فناوری، مجموعه مقالات ششمین کنگره سراسری همکاری‌های دولت، دانشگاه و صنعت برای توسعه ملی، صفحه ۳۵-۴۰، ۲۶ تا ۲۷ آذر ۱۳۸۱، تهران، ایران.

- تدوین مجموعه مقالات اولین همایش علم و فناوری - آینده و راهبردها (۲ جلد) از انتشارات مرکز تحقیقات استراتژیک، معاونت علوم و تکنولوژی، ۲۰ و ۲۱ دی ماه ۱۳۷۹، تهران، ایران.

- توسعه کشور در گرو توسعه علم و فناوری - مجموعه مقالات همایش پژوهش، بهره‌وری، رشد و توسعه اقتصادی، مرداد ۱۳۸۴، موسسه عالی آموزش و پژوهش، مدیریت و برنامه ریزی، صفحه ۶۰۵-۶۱۳، تهران، ایران.

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