***بسمه‌تعالي***

**شناسنامه اعضاي هيأت علمي دوره هاي تحصيلات تکميلي**

(پر کردن اين فرم براي راه اندازي دوره هاي تحصيلات تکميلي الزامي است)

****

**1- مشخصات فردي**

نام و نام خانوادگي: **فاطمه رفیع منزلت** تاريخ‌تولد:**1351** جنس: **زن**

وضعيت تأهل: **متأهل** مليت: **ايراني** تابعيت: **ايران** دين: **اسلام**

**Demographic**

**Fatemeh Rafiemanzelat**

**Ph.D**

**Assistant Professor**

**Department of Chemistry- Polymer Chemistry Branch**

**University of Isfahan**

**Date of Birth: 1972/6/22**

**2- مشخصات تحصيلي:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| مدارج تحصيلي | عنوان رشته | محل تحصيل | تاريخ دريافت مدرک | عنوان پايان نامه |
| **ديپلم** | **تجربي** | **دبيرستان بهشت آئين** | **69** | **-** |
| **كارشناسي** | **شيمي** | **دانشگاه الزهرا س** | **74** | **-** |
| **كارشناسي‌ارشد** | **شيمي‌آلي** | **دانشگاه صنعتی اصفهان** | **76** | **\*سنتز پلی استر...** |
| **دكتري** | **شيمي‌آلي‌- پليمر** | **دانشگاه صنعتی اصفهان** | **85** | **\*\*سنتز پلی یورتان آمید ایمید...** |

\*سنتز و شناسايي مونومرها و پلي استرهاي جديد بر پايه بنزو  فلورانتن با توانايي نشر فلوئورسانس

\*\*سنتز،شناسايي و مطالعه خواص پلي (آميد-ايميد-اتر-يورتان) هاي قطعه اي فعال نوري جديد، از واکنش بين دي ايزوسياناتها، پلي ال ها و دي اسيد حاوي آمينو اسيد، از مسير ايزوسيانات

Educations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Degree | Field of study | Educational Institution | Date of Graduation | Title of Thesis |
| Diploma | Experience  Science | Behesht-Aeein High School | 1990 |  |
| B.S. | Chemistry | Al-Zahra University | 1995 |  |
| M.S. | Organic Chemistry | Isfahan University of Technology | 1997 | Synthesis of Polyester…. |
| Ph.D. | Polymer Chemistry | Isfahan University of Technology | 2006 | Synthesis of Poly(urethane 0Amide-Imide)…. |

**3- مشخصات شغلي:**

وضعيت استخدامي: **رسمی-آزمایشی** مرتبه دانشگاهي: **استاد یار** دانشگاه محل کار: **دانشگاه اصفهان** دانشکده: **شیمی**

**Lecture/ Teaching**

**B.S.:**

Fundamental of Polymer Chemistry

Organic Chemistry for Biology

General Chemistry

**M.S.:**

Polymer Synthesis

Specially Polymers

Advanced Polymer Chemistry

New Topics in Polymer Science

Polymer Characterization and Properties

Polymeric Mixtures (Polymeric Blends- Polymeric Composites)

4- فعاليت آموزشي:

|  |  |  |  |
| --- | --- | --- | --- |
| مقاطعي که تدريس کرده ايد | دروس تدريس شده | سالهاي تدريس | دانشگاه محل تدريس |
| كارشناسی | **مباني شيمي پليمر** | **از 89تاکنون** | **دانشگاه اصفهان** |
| **شيمي آلي بيولوژي** | **از 86 تاکنون** | **دانشگاه اصفهان** |
| **شيمي‌عمومي** | **86-87** | **دانشگاه اصفهان** |
| كارشناسي‌ارشد | **سنتز پليمرها** | **از 87 تاکنون** | **دانشگاه اصفهان** |
| **پلیمرهای ویژه** | **از 90تاکنون** | **دانشگاه اصفهان** |
| **شيمي پليمر پيشرفته** | **از 88 تاکنون** | **دانشگاه اصفهان** |
| **مباحث نوین** | **86** | **دانشگاه اصفهان** |
| **شناسايي و بررسي خواص پليمرها** | **از 88 تاکنون** | **دانشگاه اصفهان** |
| **مخلوطهاي پليمري (آليا‌ژ- کامپوزيت)** | **93 تاکنون** | **دانشگاه اصفهان** |

5- فعاليت هاي پژوهشي:

|  |  |  |  |
| --- | --- | --- | --- |
| موضوع | عناوين | محل انتشار | سال انتشار |
| کتب تأليف شده |  |  |  |
| کتب ترجمه شده |  |  |  |

لطفاٌ ليست مقالات انتشار يافته در مجلات علمي داخلي و خارجي را با ذکر عنوان و نام مجله و تاريخ انتشار آن ضميمه فرمائيد.

6- طرحها، پروژه ها و پايان نامه ها:

|  |  |  |  |
| --- | --- | --- | --- |
| موضوع | عناوين | تاريخ اتمام | ملاحظات |
| طرحها و پروژه هاي مهم | سنتز،شناسايي و بررسي خواص پلي اتريورتانهاي تخريب پذير جديد برپايه سيكلوپپتيد و بررسي واكنش پليمرشدن در حلالهاي متداول آلي و حلالهاي سبز | **شهریور 90** | **طرح برون‌دانشگاهي** |
| سنتز وشناسايي آيونومرهاي جديد پلي يورتان بر پايه ي 4-4-متيلن بيس (4- فنيل ايزو سيانات) و بررسي اثر پارامترهاي مختلف واكنش بر امكان تهيه و برخي خواص آنها | **1392** | **طرح درون‌دانشگاهي-** |
|  | سنتز رزين پلي استر غير اشباع اصلاح شده به منظور خواص سازگاري با بافت، پايداري نوري، و پخت شوندگي آن براي پلاستينه کردن بافتها | **1395** | **پايان نامه آ مهدي شيخي** |
|  | طراحي سنتز و شناسايي نانو سامانه هاي کوپلي ( اتر- يورتان) زيست تخريب پذير عامل دار جديد پايه آبي بر پايه سيکلوپپتيد لوسين انيدريد و پلي اتيلن گليکول با پتانسيل رهايش هدفمند دارو | **1394** | **پايان نامه خ شايسته تفضلي** |
|  | سنتز شناسايي و بررسي خواص کوپلي ايميدهاي سولفونه جديد برپايه 4،1- بيس (4-آمينو فنوکسي) تريپسين از روش ايزوسيانات | **1393** | **پايان نامه کارشناسي ارشد آ رسول حياتياني** |
| اهم پايان نامه هاي مورد راهنمايي | بررسي رفتار زيست تخريب پذيري پلي(اتر-اوره-يورتان)بر پايه سيکلوپپتيد L-لوسين در حضور سويه هاي باکتريي کوکوسي شکل | **1393** | **پايان نامه كارشناسي‌ارشد خ سکینه عیوضی** |
| سنتز ، شناسايي و بررسي خواص كوپلي‌ايميدهاي سولفونه پايدار حرارتي جديد بر پايه دي‌آمين 4-[4-(5،4-دي-فنيل-1-H-ايميدازول-2-ايل)فنوكسي]بنزن -3،1-دي‌آمين (DAI)با گروه جانبي ايميدازولي و 13،1-دي‌‌آمينو 10،7،4-تري‌اكسا- تري‌دكان به عنوان فضا‌پركن و دي‌آمين سولفونه 5،2-دي‌آمينو بنزن سولفونيك اسيد | **1392** | **پايان‌نامه كارشناسي‌ارشد خ سمیه صفری** |
| سنتز و شناسايیٌ پلی اوره های جديدٌ برپا يه دی آمين آروماتيٍك جد يٌد با اتصالات اتری و باقيمٍانده آنتراسنی و نانو كامپوزًتٌ‌های مربوطًه خاک رس | **1392** | **پايان‌نامه كارشناسي‌ارشد خ فاطمه قاسمی** |
| تهيه و كاربرد رزين‌هاي دو جزئي پلي يورتان / پلي آكريلات بر پايه آب | **1392** | **پايان‌نامه كارشناسي‌ارشد آ محمد دوست محمدی** |
| سنتز پلي(اتر-يورتانها) برپايه سيكلوپپتيد L-لوسين و فاز نرم PEG و بررسي ويژگيهاي زيست تخريب پذيري و زيست سازگاري انها درمحيط هاي بيولوژيك | **1392** | **پايان نامه كارشناسي‌ارشد خ محبوبه جعفری** |
| سنتز و شناسايي آنيونومرهاي پلي اوره - يورتان زيست تخريب‌پذير پايه آبي بر پايه لوسين انيدريد و پلي اتيلن گليكول 1000 به عنوان فاز نرم | **1392** | **پايان نامه كارشناسي‌ارشد آقاي ابولفضل هادی پور** |
| سنتز شناسايي و بررسي خواص كوپلي ايميدهاي سولفونه پايدار حرارتي جديد بر پايه 4-(4-(4و5-دي فنيل-1-H-ايميدازول-2-ايل-فنوكسي)بنزن-1و3-دي امين (DAI) و 2،5-دي آمينو بنزن سولفونيك اسيد | **1391** | **پايان نامه كارشناسي‌ارشد آقاي سعید دیانتی** |
| سنتز و شناسايی بيونانوکامپوزيتهای خاک رس-پلی يورتان برپايه سيکلوپپتيد 3,6-دی ايزوبوتيل-2,5-دی کتوپيپرازين DIBDHPو فاز نرم PTHF/PEG-1000 و مقايسه اثر نانوذرات بر ويژگيهای زيست تخريب پذيری آنها | **1391** | **پايان نامه كارشناسي‌ارشد خ اعظم عادلی** |
|  | سنتز و شناسايی کوپلی يورتانهای پرشاخه جديد برپايه دی آمين 4-(4-(4,5-دی فنيل-2-ايل فنوکسی) بنزن-1,3-دی آمين DAIو پلی تتراهيدروفوران به روشA2+B3 و تهيه نانوکامپوزيتهای مربوطه با خاک رس | **1391** | **پايان نامه كارشناسي‌ارشد خ زهرا نوروزی** |
|  | سنتز و شناسايي پلي يورتانهاي يوني خودرنگ جديد برپايه سيستم پخش آبي و بررسي اثر نانوذرات خاك‌رس بر خواص فيزيكي -گرمايي آنها | **1390** | **پايان نامه كارشناسي‌ارشدآ وحدت عدلی** |
|  | سنتز و شناسايي پلي(اتر-يورتان-اوره)هاي جديد بر پايه دي امين شامل 2و4و5-تري آريل ايميدازول | **1390** | **پايان نامه كارشناسي‌ارشدآ محمود هاشمیان** |
|  | سنتز و شناسايي پلي(اتر-يورتان)هاي قطعه اي جديد برپايه 6،3-دي ايزوبوتيل-5،2-دي كتوپيپرازين و پلي اترپلي الهاي مختلف و مقايسه تخريب پذيري انها در محيطهاي مختلف | **1390** | **پايان نامه كارشناسي‌ارشدآ ابوالفضل فتح الهی** |
|  | سنتز شناسايي و بررسي خواص پلي(آميد-ايميد)ها و پلي(آميد-ايميد-اتر-يورتان)هاي قطعه اي جديد برپايه تري مليتيك انيدريد و حاوي اتصال سيلوكساني | **1389** | **پايان نامه كارشناسي‌ارشدآ محمود خوش فطرت** |
|  | سنتز و شناسايي پلي(اتر-يورتانها)ي جديد بر پايه L- لوسين انيدريد با قابليت هيدروليز و بررسي امکان انجام واکنشها در محيط مايعات يوني | **1388** | **پايان نامه كارشناسي‌ارشدخ الهه عبدالهی** |

آدرس محل کار: **دانشگاه اصفهان** گروه آموزشي: **شيمي پلیمر** تلفن: **-37934939**

آدرس منزل: خ طالقانی-خ زاهد-ک علی قلی بیک- پلاک 129-- تلفن: **32344949**

**اختراعات**

|  |  |  |  |
| --- | --- | --- | --- |
| **موضوع و نام اختراع** | **محل اختراع** | **تاريخ ثبت** | **همکاران** |
| تهيه پوشش‌هاي پلي يورتان خود رنگ پايه آبي به روش سبز | دانشگاه اصفهان | 28/10/92 | |  | | --- | | وحدت عدلي | | فاطمه رفيع منزلت | |
| توليدقند الكلي زايليتول از پسمانده هاي خرما و ساير ميوه ها و ساقه هاي برخي گياهان | دانشگاه اصفهان | 3/6/89 | |  | | --- | | منظر سبحاني مهر | | فاطمه رفيع منزلت | |
| ساخت پوششهاي دوجزيي پلي اکريلات- پلي يورتان پايه آبي و ساخت پلي ايزوسيانات به عنوان عامل پخت در دماي اتاق در حضور کاتاليزور محيط دوستانه | دانشگاه اصفهان | 19/8/93 | محمدعلي دوست محمدي  فاطمه رفيع منزلت |

**Inventions**

1. Preparation of waterborn self-colored polyurethane via a green method
2. Preparation of sugar alcohol xylitol from the dates and other fruits residue and stems of some plants.
3. Preparation of water-based polyurethane-acrylate binary coatings and synthesis of a polyisocyanate as the room temperature curing agent in the presence of an environmental Friendly catalyst

**كنفرانسهاي ملي و بين المللي**

**National and International Conferences**

|  |  |
| --- | --- |
| **عنوان مقاله (Title)** | **عنوان همایش(Conferences)** |
| Investigation of degradation properties of poly(ether- urethane)s containing cyclopeptide moiety in the presence of micrococcus bacteria | 11th International Seminar on Polymer Science and Technology2014- |
| The effect of urease secreted enzymes of new micrococcus strain on biodegradation of poly (ether- urea- urethane | 11th International Seminar on Polymer Science and Technology-2014 |
| Investigation of biodegradability of Poly(butylene succinate) / clay nanocomposite scaffolds | 6th Iranian National Seminar of Chemistry and Environment---1393 |
| Optimization of acrylic resin polyols for low volatile compounds (VOC ) | شانزدهمين كنگره ملی شيمي ايران شهریور 1392 |
| Preparation and characterization of two-component waterborne polyurethane | شانزدهمين كنگره ملی شيمي ايران شهریور 1392 |
| Synthesis and characterization of water borne biodegradable poly (urea-urethane) anionomers based on L- leucine cyclodipeptide (LC) and PEG: study of their degradability in activated sludge | first Tabriz international life science & 12th Iran biophysical chemistry conference----2013 |
| Synthesis of biodegradable water dispersion poly (urea –urethane) based on L- leucine anhydride (LA) and polyethylene glycol: study of polymer behaviour in bacterial environment | first Tabriz international life science & 12th Iran biophysical chemistry conference-2013 |
| Synthesis, Characterization and Biodegradation of Poly(butylene succinate) scaffolds | first Tabriz international life science & 12th Iran biophysical chemistry conference-2013 |
| Study of Degradation a new Poly (ether-urea-urethane) by Bacillus bacteria Isolated from Soil | first Tabriz international life science & 12th Iran biophysical chemistry conference-2013 |
| Comparison of solution intercalation and in-situ intercalation methods of preparation of novel polyurethane coating clay nanocomposite | First international conference on nanostructures & nanomaterials science and applications-2011 |
| Synthesis and characterization of novel green polyurethane coatings/nano-composites | First international conference on nanostructures & nanomaterials science and applications-2011 |
| Preparation of new elastomeric hyperbranched poly(urethane urea)/clay nanocomposite based on DAI with improved thermal and coating properties | First international conference on nanostructures & nanomaterials science and applications-2011 |
| Preparation and properties of novel hyperbranched multiblok copolyurea nanocomposites via pre-polymer and polyol hybrid methods; Comparing the effect of method | First international conference on nanostructures & nanomaterials science and applications-2011 |
| Preparation and properties of novel polyurethane bionanocomposites based on L-leucine anhydride | First international conference on nanostructures & nanomaterials science and applications-2011 |
| مطالعه خواص مكانيكي نانوكامپوزيت زيست تخريب پذير و نيل الكل /نشاسته /گرافن اكسيد | اولين همايش ملي كاربردهاي شيمي در فناوري هاي نوين 1390 |
| کاهش مهاجرت نرم­کننده دي­اکتيل­فتالات از فيلم پلي وينيل كلرايد–نرم توسط ذرات گرافيت اكسيد | اولين همايش ملي كاربردهاي شيمي در فناوري هاي نوين 1390 |
| Prevention of plasticizer migration from soft PVC by nanotubes & nano clay additives | 15th Iranian Chemistry Congress(ICC2011 |
| Effect pf TiO2 and ZnO nanoparticles on plasticizer migration of Flexible PVC | 15th Iranian Chemistry Congress(ICC2011 |
| Synthesis of poly(methyl methacrylate) with terpyridine via Reversible addition fragmentation chain transfer (RAFT) polymerization | 17th Iranian Seminar of Organic Chemistry  1389 |
| Synthesis of novel mediate for reversible addition fragmentation chain transfer (RAFT) polymerization | 17th Iranian Seminar of Organic Chemistry  1389 |
| Comparing the effect of Tin(IV) Porphyrin complexes with a commercial catalyst, DBTDL, on preparation of new polyurethanes based on cyclopeptide moiety | 17th Iranian Seminar of Organic Chemistry  1389 |
| Eco-friendly synthesis of poly(ether-urethane)s based on PTMG in phosphonium ionic liquids | 17th Iranian Seminar of Organic Chemistry  1389 |
| A green synthesis of novel poly(amide-imide)s modified with siloxane linkage under microwave in conjunction with imidazolium based ionic liquids | 17th Iranian Seminar of Organic Chemistry  1389 |
| Preparation of L-leucine anhydride from L-leucine cyclization reaction in the mixture of ethylene glycol/Ionic liquid as recation solvent | 17th Iranian Seminar of Organic Chemistry  1389 |
| Synthesis and characterization of environmentally degradable poly(etherurethane) derived from L–leucine cyclopeptide | 17th Iranian Seminar of Organic Chemistry  1389 |
| The first report on preparation of siloxane containing poly(amide-imids)in the presence of ionic liquids as green media under microwave heating | 17th Iranian Seminar of Organic Chemistry  1389 |
| Investigation of hydrolysis properties of new segmented poly(urethane urea)s based on environmental friendly diisobutyl-2,5-diketopiperazine | 17th Iranian Seminar of Organic Chemistry  1389 |
| Ionic liquids-promoted synthesis of L-leucine anhydride from its amino acid: A green synthesis of amino acid anhydrides | 17th Iranian Seminar of Organic Chemistry  1389 |
| Investigation the effect of ethylene glycol/ionic liquid ratio as reaction solvent on the formation of L-phenyl alanine anhydride from L-phenyl alanine | 17th Iranian Seminar of Organic Chemistry  1389 |
| Microwave-assisted clean synthesis of poly(ether-urethane-urea)s derived from L–leucine anhydride | 17th Iranian Seminar of Organic Chemistry  1389 |
| Synthesis, Characterization, Properties and Complexing Selectivity of Poly(ether-urethane-urea)s Containing Lariat Aza Crown Ether | 9th international seminar on poiymer science and Technology-2009 |
| Tin(IV) Porphyrin Complexes as New Catalysts: Application to Segmented Polyurethanes | 9th international seminar on poiymer science and Technology-2009 |
| Synthesis and Characterization of Segmented Poly(ether-urethane-urea)s Derived from 3,6-Diisobutyl-2,5-diketopiperazine Cyclopeptied and a Green Synthetic Method for Monomer | 9th international seminar on poiymer science and Technology-2009 |
| Synthesis and characterization of L-leucine anhydride in ionic liquids under microwave irradiation | كنفرانس ملی شيمي الي ايران 1388 |
| A Green synthetic method for 3,6-Diphenyl-2,5-diketopiperazine | كنفرانس ملی شيمي الي ايران 1388 |
| Synthesis and Characterization of 3,6-Dialkyl-2,5-diketopiperazine Cyclodipeptides as New Monomers in Green Reaction Media and Comparing with Common Reaction Methods | 15th Iranian Seminar of Organic Chemistry  1387 |
| Synthesis and Properties of New Self Colored Poly(amide-ether-urethane)s under Microwave Irradiation | 13th Iranian Seminar of Organic Chemistr  1385 |
| Optimization of Reaction Conditions Influencing Chain Growth of Modified Poly(ether-urethane)s Based PEG and L-leucine by Mathematical Method | 13th Iranian Seminar of Organic Chemistr  1385 |
| Synthesis, Characterization, and Properties of Crown Ether Containing Poly(ether-urethane)s based Kryptofix 2.2 | 13th Iranian Seminar of Organic Chemistr  1385 |
| Synthesis and Characterization of New Photoactive Multiblock Poly(amide-ether-urethane)s Containing Azobenzene Chromophore | International seminar on polymer science and technology2005 |
| The Effect of Hard Segment Length on the Properties of Novel Poly(amide-imide-urethane)s | International seminar on polymer science and technology2005 |
| Preparation and Properties of Novel Optically Active Poly(ether-urethane)s by Two Different Polymerization Methods | International seminar on polymer science and technology2005 |
| One-Shot Synthesis of Poly(amide-ether-imide-urethane) Containing L-leucine Moiety under Microwave Irradiation | International seminar on polymer science and technology2005 |
| New Poly(amide-imide-urethane)s Prepared by the Reaction of an Oligoamide-terminated MDI, with PEG Chain extenders under Microwave Irradiation | International seminar on polymer science and technology2005 |
| Synthesis of New Self Colored Photoactive Poly(amide-urethane)s Based on an Azobenzene Chromophore and Different Diisocyanates | 11th Asian Chemical Congress-2005 |
| The Effect of Hard Segment Content on the Properties of Novel Poly(amide-imide-urethane)s with Improved Thermal Stability | 11th Asian Chemical Congress-2005 |
| Comparison of some physical and thermal properties of novel optically active poly(amide imide urethane)s with different soft segments, different hard to soft length ratio and different methods | 40th world polymer congress Macro 2004 |
| Thermal and physical properties of novel optically active poly(ether urethane)s modified by copoly(amide imide) segments based on amino acid | 40th world polymer congress Macro 2004 |

**Publications:**

1. Acylation of polybutadiene containing 4-phenyl urazole/ Iranian Polymer Journal / **1998**
2. Polymerization of 7,12-bis(2-hydroxyethyl)benzo[k]fluoranthate with aromatic diacid chlorides/ Iranian Polymer Journal / **1998**
3. New polyurethanes with benzo[k]fluoranthene moieties/ Polymer Sciences Series B -Vysokomolekulyarnye Soedineniya Seriya A & Seriya B/ **1999**
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