CURRICULUM VITAE

Personal Details

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Educational Qualifications

Ph.D. in Polymer Chemistry (Nov, 1997), Shiraz University, Shiraz, Iran

Thesis:

Part I: New Heat Resistant Polyamides and Polyimides from Novel Diamines and Diacids

Part II: New Polymeric Oxidizing Agents Based on Metal Peroxides

Supervised by: Professor Bahman Tamami

M.Sc. in Polymer Chemistry (Jun, 1994), Tabriz University, Tabriz, Iran

Thesis:

Part I: Electrochemical Synthesis of Processable Conducting Graft Copolymers of Styrene, Pyrrol, N-Methylpyrrol and Aniline

Part II: Preparation and Characterization of Conducting Polymers-Tetradecyl silica Composites

Supervised by: Professor Ali Akbar Entezami

B.Sc. in Chemistry (Jan, 1991), Shiraz University, Shiraz, Iran

Employment

- **Iran Polymer & Petrochemical Institute, Tehran, Iran,** May, 2011-present,

Professor, member of academic staff of polyurethane and advanced polymers department

- **Iran Polymer & Petrochemical Institute, Tehran, Iran,** Feb, 2005-Apr, 2011

Associate Professor, member of academic staff of polyurethane and advanced polymers department

- **Iran Polymer & Petrochemical Institute, Tehran, Iran**, Oct, 2004- Jan 2012,

Director of International Affairs

- **Iran Polymer & Petrochemical Institute, Tehran, Iran**, May, 1998- Apr, 2004,

Head of Polyurethane and Advanced Polymers Department

- **Iran Polymer & Petrochemical Institute, Tehran, Iran**, Nov, 1997-Jan, 2005,

Assistant Professor, member of academic staff of polyurethane and advanced polymers department

Research Interests

Basic research activities of my group are as follows:

- Biomedical applications of tailor made polyurethanes as wound dressing membranes, antibacterial coatings/membranes, scaffolds in tissue engineering, dental restorative materials, and anti-cancer drug carriers.

- Utilization and modification of renewable resource raw materials (vegetable oils) for preparation of polyurethanes

- Preparation of high performance electrically insulating coatings based on polyurethanes, or polyurethanes modified with polyimides and polybenzoxazines

- Recycling of polymers (polyolefins or polyethylene terphthalate) for preparation value added products

- Preparation of high performance anti-corrosive coatings based on polyurethanes modified with electroactive moieties

To fulfill the aforementioned research activities, not only the basic knowledge and tools of polymer chemistry were utilized, I constantly tried to exploit very recently developed methods such as click chemistry (thiol-ene reaction and Huisgen 1,3-dipolar cycloaddition of azides and alkynes). Also, due to multidisciplinary nature of my current projects, I tried to keep training new necessary subjects, especially those related to biological issues.

Journal Papers

82) N. Baheiraei, H. Yeganeh, J. Ai, R Gharibi, S. Ebrahimi-Barough, M. Azami, S. Vahdat, H. Baharvand, "Preparation of a porous conductive scaffold from aniline pentamer-modified polyurethane/PCL blend for cardiac tissue engineering"

J. Biomed. Mat. Res. Part A: 2015, DOI: 10.1002/jbm.a.35447

81) H Gholami, H Yeganeh, R Gharibi, M Jalilian, M Sorayya, "Catalyst free-click polymerization: A versatile method for the preparation of soybean oil based poly1, 2, 3-triazoles as coatings with efficient biocidal activity and excellent cytocompatibility"

Polymer, 2015, 62, 94-108.

80) S.B. Burujeny, M. Atai, H. Yeganeh, "Assessments of antibacterial and physico-mechanical properties for dental materials with chemically anchored quaternary ammonium moieties: Thiol–ene–methacrylate vs. conventional methacrylate system"

Dental Materials, 2015, 31, 244–261.

79) F. Akbari, A. Yari Khosroushahi, H. Yeganeh, "Quaternary ammonium salt containing soybean oil: An efficient nanosize gene delivery carrier for halophile green microalgal transformation"

Chemico-Biological Interactions 2015, 225, 80-89.

78) S Jalilian, H Yeganeh, "Preparation and properties of biodegradable polyurethane networks from carbonated soybean oil"

Polymer Bulletin, DOI: 10.1007/s00289-015-1342-3

77) S. Shaneh, F. Shokrolahi, P. Shokrollahi, H. Yeganeh, E. Seyedjafari, A. Ardeshirylajimi, H.Omidian , "Improved immobilization of gelatin on a modified polyurethane urea"

J. Bio. Act. Comp. Polym.: Biomed. Appl. 2015, 30, 57-73.

76) M. Seifali Abbas-Abadi, M. Nekoomanesh Haghighi, A. McDonald, H. Yeganeh, "Estimation of pyrolysis product of LDPE degradation using different process parameters in a stirred reactor"

Polyolefins J. 2015, 2, 39-47.

75) R. Gharibi, , H. Yeganeh, H. Gholami, Z.M. Hassan, "Aniline tetramer embedded polyurethane/siloxane membranes and their corresponding nanosilver composites as intelligent wound dressing materials"

RSC Advances, 2014, 4, 62046-62060.

74) S. Rostami, Z. Talebpour and H. Yeganeh, "Preparation, optimization and application of poly(ethylene glycol)methyl ether methacrylate/urethane methacrylate as a new polar phase for stir bar sorptive extraction,

Anal. Methods, 2014, 6, 7722-7732.

73) N Baheiraei, H Yeganeh, J Ai, R Gharibi, M Azami, F Faghihi, " Synthesis, characterization and antioxidant activity of a novel electroactive and biodegradable polyurethane for cardiac tissue engineering application"

Mat. Sci. Eng.: C, 2014, 14, 24–37.

72) M.S. Abbas-Abadi, M.N. Haghighi, H. Yeganeh, A.G.McDonald, " Evaluation of pyrolysis process parameters on polypropylene degradation products"

J. Anal. Appl. Pyrolysis, 2014, 109, 272–277.

71) M. Alishiri, A. Shojaei, M.J. Abdekhodaie, H.Yeganeh, "Synthesis and characterization of biodegradable acrylated polyurethane based on poly(ε-caprolactone) and 1,6-hexamethylene diisocyanate"

Mat. Sci. Eng.: C, 2014, 42, 763–773.

70) Bakhshi, H., Yeganeh, H., Yari, A., Nezhad, S.K., " Castor oil-based polyurethane coatings containing benzyl triethanol ammonium chloride: Synthesis, characterization, and biological properties"

J. Mat. Sci. 2014, 49, 5365-5377

69) F. Shokrolahi, H.Yeganeh, "Soft segment composition and its influence on phase-separated morphology of PCL/PEG-based poly(urethane urea)s"

Iranian Polym. J. 2014, 23, 505-512

68) L Akbarian-Feizi, S Mehdipour-Ataei, H Yeganeh, *"Investigation on the Preparation of New Sulfonated Polyimide Fuel Cell Membranes in Organic and Ionic Liquid Media"*

Int. J. Polym. Mat. Polym. Biomat. 2014, 63, 149

67) A. Yari, H Yeganeh, H. Bakhshi, R. Gharibi, *"Preparation and Characterization of Novel Antibacterial Castor Oil-Based Polyurethane Membranes for Wound Dressing Application"*

J. Biomed. Mat. Res. Part A: 2014, 102, 84.

66) H Bakhshi, H Yeganeh, S Mehdipour-Ataei, A Solouk, S Irani, *"Polyurethane Coatings Derived from 1, 2, 3-Triazole-Functionalized Soybean Oil-Based Polyols: Studying their Physical, Mechanical, Thermal, and Biological Properties"*

Macromolecules, 2013, 46, 7777.

65) R. Gharibi, M. Yousefi, H. Yeganeh, *"Synthesis, Characterization and Assessment of Poly(urethane-co-pyrrole)s Derived from Castor Oil as Anticorrosion Coatings for Stainless Steel"*

Pro. Org. Coat. 2013, 76, 1454.

64) S. Beigi, H. Yeganeh, M. Atai, *"Evaluation of fracture toughness and mechanical properties of ternary thiol–ene–methacrylate systems as resin matrix for dental restorative composites"*

Dental Mataterials, 29, 777, 2013.

63) M. Seifali Abbas-Abadi, M. Nekoomanesh Haghighi, H. Yeganeh, B. Bozorgi, *"The effect of melt flow index, melt flow rate, and particle size on the thermal degradation of commercial high density polyethylene powder"*

J. Therm. Anal. Cal. 2013, 114, 1333

62. H. Bakhshi, H Yeganeh, S. Mehdipour-Ataei, "Synthesis and Evaluation of Antibacterial Polyurethane Coatings Made from Soybean Oil Functionalized with Dimethylphenylammonium Iodide and Hydroxyl Groups",

J. Biomed. Mat. Res. Part: A 101A, 1599, 2013.

61) H. Bakhshi, H Yeganeh, S. Mehdipour-Ataei, M.A. Shokrgozar, A. Yari, S. N. Saeedi-Eslami, *"Synthesis and characterization of antibacterial polyurethane coatings from quaternary ammonium salts functionalized soybean oil based polyols"*

Mat. Sci. Eng.: C, 33, 153, 2013.

60) M. Seifali Abbas-Abadi, M. Nekoomanesh Haghighi, H. Yeganeh, *"Evaluation of pyrolysis product of virgin high density polyethylene degradation using different process parameters in a stirred reactor"*

Fuel Processing Tech. 109, 90, 2013.

59) A. Yari, H Yeganeh, H. Bakhshi, *"Synthesis and evaluation of novel absorptive and antibacterial polyurethane membranes as wound dressing"*

J. Mat. Sci.: Mat. Med. 23, 2187, 2012.

58) M. Seifali Abbas-Abadi, M. Nekoomanesh Haghighi, H. Yeganeh, *"The effect of temperature, catalyst, different carrier gases and stirrer on the produced transportation hydrocarbons of LLDPE degradation in a stirred reactor"*

J. Anal. Appl Pyrolysis, 95, 198, 2012.

57) M. Seifali Abbas-Abadi, M. Nekoomanesh Haghighi, H. Yeganeh, *" Effect of the melt flow index and melt flow rate on the thermal degradation kinetics of commercial polyolefins "*

J. Appl. Polym. Sci., 126, 1739, 2012

56) A.Yari Khosoushahi, H. Naderi-Manesh, H.Yeganeh, J. Barar, Y. Omidi, *"Novel water-soluble polyurethane nanomicelles for cancer chemotherapy: physicochemical characterization and cellular activities"*

J. Nanobiotechnology 2012, 10:2 (5 January 2012)

55) L. Akbarian-Feizi, S. Mehdipour-Ataei, H. Yeganeh, *"Synthesis of New Sulfonated Copolyimides in Organic and Ionic Liquid Media for Fuel Cell Application"*

J. Appl. Polym. Sci. 124, 1981, 2012

54) F. Shokrolahi, H. Mirzadeh, H.Yeganeh *"Fabrication of Poly(urethane urea)-based Scaffolds for Bone Tissue Engineering by a Combined Strategy of Using Compression Moulding and Particulate Leaching Methods"*

Iranian Polym. J. 20, 645, 2011.

53) F. Shokrolahi, H.Yeganeh, H. Mirzadeh, *"Simple and versatile method for the one-pot synthesis of segmented poly(urethane urea)s via in situ-formed AB-type macromonomers"*

Polym. Int. 60, 620, 2011.

52) S. Jamshidi, H. Yeganeh, S. Mehdipour-Ataei, *"Poly(urethane-co-benzoxazine)s via reaction of phenol terminated urethane prepolymers and benzoxazine monomer and investigation of their properties"*

Polym. Adv. Technol., 22, 1502, 2011.

51) S. Jamshidi, H. Yeganeh , S. Mehdipour-Ataei, *"Preparation and properties of one-pack polybenzoxazine-modified polyurethanes with improved thermal stability and electrical insulating properties"*

Polym. Int. 60, 126, 2011.

50) S. Jamshidi, H. Yeganeh, S. Mehdipour-Ataei , *"Poly(urethane-co-benzoxazine)s via reaction of phenol terminated urethane prepolymers and benzoxazine monomer and investigation of their properties"*

Polym. Adv. Tech. 22, 1502, 2011.

49) H.Yeganeh, A. Jangi *"Thermally Curable Polyurethanes Containing Naphthoxazine Groups in the Main Chain"*

Polym. Int. 59, 1375, 2010

48) L. Akbarian-Feizi, S. Mehdipour-Ataei, H. Yeganeh, *"Survey of Sulfonated Polyimide Membrane as a Good Candidate for Nafion Substitution in Fuel Cell"*

Int. J. Hydrogen Energy, 35, 9385, 2010.

47) M. Djalilian, H. Yeganeh, M. Nekoomanesh, "*Preparation and Characterization of Polyurethane Electrical Insulating Coatings Derived From Novel Soybean Oil Based Polyol"*

Polym. Adv. Tech. 21, 118, 2010

46) H. Yeganeh, M. Ghaffari, A. Jangi "*Diaminobisbenzothiazole Chain Extended Polyurethanes as a Novel Class of Thermoplastic Polyurethane Elastomers with Improved Thermal Stability and Electrical Insulation Properties"*

Polym. Adv. Tech. 29, 466, 2009

45) M. Djalilian, H. Yeganeh, M. Nekoomanesh, "*Synthesis and properties of polyurethane networks derived from new soybean oil based polyol and a bulky blocked polyisocyanate"*

Polym. Int. , 57, 2358, 2008.

44) H. Yeganeh, M. Razavi-Nouri, M. Ghaffari, *"Synthesis and Properties of Polybenzoxazine Modified Polyurethanes as a New Type of Electrical Insulators with Improved Thermal Stability"*

Polym. Eng. Sci., 48, 1329, 2008.

43) A. Rabiee, S. Mehdipour-Ataei, A. Banihashemi, H. Yeganeh, *"Preparation of New Membranes Based on Sulfonated Aromatic Copolyimides"*

Polym. Adv. Tech., 19, 361, 2008.

42) H. Yeganeh, M. Razavi-Nouri, M. Ghaffari, *"Investigation of Thermal, Mechanical and Electrical Properties of Novel Polyurethanes/High Molecular Weight Polybenzoxazine Blends"*

Polym. Adv. Tech, 19, 1024, 2008.

41) A. Solouck, H. Yeganeh, M. Rafienia, "*Preparation and Evaluation of Blood Compatibility of Novel Epoxy-Modified Polyurethanes"*

Iranian J. Pharm. Sci. 4, 281, 2008.

40) H. Yeganeh, F. Orang, A. Solouk, M. Rafienia**, "***Synthesis, Characterization and Preliminary Investigation of Blood Compatibility for Novel Epoxy-Modified Polyurethane Networks"*

J. Bioact. Compt. Polym., 23, 276, 2008.

39) S. Mehdipour-Ataei, A. Banihashemi, H.Yeganeh, A. Rabiee *"Preparation and Characterization of Novel Sulfonated Copolyimide Membranes"*

e-Polymers no.011, 2008.

38) H. Yeganeh, S. Mehdipour-Ataei, M. Ghaffari *"Preparation and Properties of Novel Poly(urethane-imide)s via Blending of Reactive Polyimide and Epoxy-Terminated Urethane Prepolymers"*

High Performance Polym. 20, 126, 2008

37) H. Yeganeh, P. Hojati-Talemi *"Preparation and Properties of Novel Biodegradable Polyurethane Networks Based on Castor Oil and Poly(ethylene glycol)*

Polym Deg. Stab., 92, 480, 2007.

36) H. Yeganeh, M.R. Moeini, *"Novel Polyurethane Electrical Insulator Coatings Based on Amide–Ester-Ether Polyols Derived from Castor Oil and Post-Consumed PET"*

High Performance Polym., 19, 113, 2007.

35) H. Yeganeh, H. Jamshidi, S. Jamshidi, "*Synthesis and Properties of Novel Biodegradable Poly(ε-caprolactone)/ Poly(ethylene glycol) based Polyurethane Elastomers"*

Polym. Int. 56, 41, 2007.

34) H. Yeganeh, P. Hojati Talemi, S. Jamshidi, "*Novel Method for Preparation of Polyurethane Elastomers with Improved Thermal Stability and Electrical Insulating Properties*

J. Appl. Polym. Sci. 103, 1776, 2007

33) H. Yeganeh, M. Atai, P. Hojati Talemi, S. Jamshidi, *"Synthesis, Characterization and Properties of Novel Poly(urethane-imide) Networks as Thermally Stable Electrical Insulators"*

Macromol. Mat. Eng. 291, 883, 2006.

32) H. Yeganeh, S. Jamshidi, P. Hojati Talemi, *"Synthesis, Characterization and Properties of Novel Thermally Stable Poly(urethane-oxazolidone) Elastomers"*

Eur. Polym. J. 42, 1743, 2006.

31) H. Yeganeh, M.A. Shamekhi, *"Novel Polyurethane Insulating Coatings Based on Polyhydroxyl Compounds, Derived from Glycolysed PET and Castor Oil"*

J. Appl. Polym. Sci. 99, 1222, 2006.

30) H. Yeganeh, M. M. Lakouraj, S. Jamshidi *"Synthesis and Characterization of Novel Biodegradable Epoxy Modified Polyurethane Elastomers"*

J. Polym. Sci. Part A: Polym. Chem. 43, 2985, 2005.

29) H. Yeganeh, M. M. Lakouraj, S. Jamshidi *"Synthesis and Properties of Biodegradable Elastomeric Epoxy Modified Polyurethanes based on Poly(ε-caprolactone) and poly(ethylene glycol)"*

Eur. Polym. J. 41, 2370, 2005.

28) H. Yeganeh, S. Mehdipour-Ataei, *"Preparation and Characterization of Novel Poly(ether-imide-urethane)s with Improved Thermal Stability"*

Iranian Polym. J. 14, 449, 2005.

27) H. Yeganeh, N. Ghasemi, F. Afshar Taromi, *"Synthesis and Properties of Novel Nonsegmented Polyamides and Polyurethanes with Enhanced Flame Retardancy"*

Iranian Polym. J. 14, 539, 2005.

26) H. Yeganeh, B. Tamami, I. Ghazi, *"Synthesis and Properties of Novel Optically Active and Soluble Aromatic-Aliphatic Polyimides via Reaction of Dianhydrides and Diisocyanates"*

Iranian Polym. J. 14(3), 277, 2005.

25) B. Tamami, H. Yeganeh, G. A. Kohmareh, *"Synthesis and Characterization of Novel Polyureas Derived from 4-Aryl-2,6-Bis (4-aminophenyl) pyridines and Commercially Available Diisocyanate"*

Iranian Polym. J. 14, 799, 2005.

24) H. Yeganeh, M. A. Shamekhi *"Preparation and Properties of Novel Polyurethane Insulating Coatings based on Glycerin–Terminated Urethane Prepolymers and Blocked Isocyanate"*

Polym. Int. 54, 754, 2005.

23) B. Tamami, H. Yeganeh, G. A. Kohmareh, *"Synthesis and Characterization of Novel Polyesters Derived from 4-Aryl-2,6-bis(4-chlorocarbonyl phenyl) pyridines and Various Aromatic Diols"*

Eur. Polym. J. 40, 1651, 2004.

22) H. Yeganeh, B. Tamami, I. Ghazi, *"A Novel Direct Method for Preparation of Aromatic Polyimides via Microwave-assisted Polycondensation of Aromatic Dianhydrides and Diisocyanates"*

Eur. Polym. J. 40, 2059, 2004.

21) H. Yeganeh, M. R. Mehdizadeh, *"Synthesis and Properties of Isocyanate Curable Millable Polyurethane Elastomers Based on Castor Oil as a Renewable Resource Polyol"*

Eur. Polym. J. 40, 1233, 2004.

20) H. Yeganeh, M. A. Shamekhi *"Poly(urethane-imide-imide), a New Generation of Thermoplastic Polyurethane Elastomer with Enhanced Thermal Stability "*

Polymer 45, 359, 2004.

19) M. Atai, M. Nekoomanesh, S.A. Hashemi, H. Yeganeh *"Synthesis and Characterization of BTDA-Based Dimethacrylate Dental Adhesive Monomer and Its Interaction with* Ca^{+2} *Ions"*

J. Appl. Polym. Sci. 86, 3246, 2002.

18) H. Yeganeh, B. Tamami, I. Ghazi "*Synthesis and Properties of Novel Diisocyanate Based Optically Active Polyimides"*

Eur. Polym. J. 38, 2179, 2002.

17) B. Tamami, H. Yeganeh, *"Synthesis and Properties of Novel Aromatic Polyamides Based on 4-Aryl-2,6-bis (Chlorocarbonylphenyl) Pyridines"*

Eur. Polym. J. 38(5), 933, 2002.

16) B. Tamami; H. Yeganeh *"Polymer Supported Anionic Peroxotungstate Complex as New, mild, Efficient and Versatile Oxidant in Organic Syntheses".*

Reac. Func. Polym. 50(2), 101, 2002.

15) B.Tamami, H.Yeganeh *"Preparation and Properties of Novel Polyimides Derived from 4-Aryl-2,6 bis (4-aminophenyl) Pyridine".*

J. Polym. Sci. Part A: Polym.Chem. Ed.39, 3826, 2001.

14) H.Yeganeh, M.Barikani, *"Preparation and Properties of poly (urethane- imide)s Derived from Diisocyanates Containing Build-in Imide Rings"*

Iranian Polym. J. 10 (1), 21, 2001.

13) M. Barikani; S. Mehdipour-Ataei; H. Yeganeh ; *"Synthesis and Properties of Novel Optically Active Polyimides"*

J. Polym. Sci. Part A: Polym. Chem. 39, 514, 2001.

12) B. Tamami; H. Yeganeh; *"Synthesis and Characterization of Novel Aromatic Polyamides Derived from 4-aryl-2,6-bis(4-aminophenyl) Pyridine*"

Polymer 42, 415, 2001.

11) H. Yeganeh *"Polyurethanes with Imide Groups Has Higher Working Temperature"*

High Tech Material Alert, Jun, 5, 2001.

10) H. Yeganeh, M. Barikani, F. Noei Khodabadi, *"Novel Imide Modified Polyurethanes, Synthesis and Thermal Characteristics"*

Iranian Polym. J., 9(4), 249, 2000.

9) H. Yeganeh, M.Barikani, F.Noei Khodabadi, *"Synthesis and Properties of Novel Thermoplastic Poly(urethane-imide)s*"

Eur. Polym. J. 36, 2207, 2000.

8) H.Yeganeh, S. Mehdipour-Ataei, *"Preparation and Properties of Novel Processable Polyimides Derived from a New Diisocyanate"*

J. Polym. Sci. Part A: Polym. Chem. 38, 1528, 2000.

7) H. Yeganeh, M. Barikani, "*Preparation and Properties of Novel Processable Polyimides Derived from N,N,- bis (Isocyanatoalkyl)- 1,2,4,5 benzenetetracarboxylic, 1,2,4,5- diimide"*

Polym. Int. 49, 514, 2000.

6) M .Barikani, H. Yeganeh, S. Mehdipour-Ataei "*Synthesis and Characterization of New Soluble and Thermostable Polyimides via Novel Diisocyanates"*

Polym. Int. 48, 1264, 1999.

5) B.Tamami, H. Yeganeh "*Polymer Supported Anionic Peroxomolybdenum Complexes as a New, Mild, Efficient and Versatile Oxidant in Organic Chemistry"*

Eur. Polym. J. 35, 1445, 1999.

4) B. Tamami, M. Mansour Lakoraj, H. Yeganeh, *"Pol(yvinyl pyridine) Chloroaluminium Borhydride as a New Stable and Efficient Reducing agent in Organic Synthesis"*

Iranian. Polym. J. 6, 159, 1997.

3) B.Tamami, M. Mansour Lakoraj, H. Yeganeh, *"Regioselective Reductive Cleavage of Terminal Epoxides with Polymer Supported Chloroaluminum Tetrahydroborate"*

J. Chem. Res. 330, 1997.

2) B.Tamami, H.Yeganeh, *"Pyrazine Based Polymeric Complex of Oxodiperoxochromium (VI) Compound as a New Stable, Mild Oxidant in Organic Synthesis"*

Tetrahedron 35, 7889, 1997.

1) H.Yeganeh, A.A. Entezami, *"Electrochemical Synthesis of Processable Conducting Polymers of Styrene, Pyrrol, N-Methylpyrrole and Aniline"*

Iranian J. Polym. Sci. Tech. 4, 90, 1995.

Seminar Papers

1) H. Yeganeh; A. A. Entezami *" Electrochemical Synthesis of Processable Conducting Graft Copolymer of Styrene, Pyrrol , N-Methyl Pyrrol and Aniline "*

1th International Seminar of Polymer Science and Technology - Shiraz , Iran, May 1994.

2) H. Yeganeh, A. A. Entezami, S. Zehzad, *"Preparation and Characterization of Conducting Polymer Tetradecyl Silica Composite"*

IUPAC Macromolecular Symposium, Istanbul, Turkey, Aug, 1995.

3) H. Yeganeh, B. Tamami *"Coordination Polymer of Pyrazine-Oxodiproxochromium (VI) as a Mild and Efficient Oxidaizing Agent in Organic Sytnthesis"*

11th Congress of Chemistry and Chemical Engineering, Tehran, Iran Sep, 1996.

4. H. Yeganeh, B. Tamami, *"Ion Exchange Resin Containing Anionic Complex of Molybdenum Peroxide, as Mild and Efficient Oxidant in Organic Synthesis"*

12th Congress of Chemistry and Chemical Engineering, Kerman, Iran, Sep, 1997.

5) B. Tamami; H. Yeganeh; *"Synthesis and Characterization of Thermostable and Soluble Aromatic Polyamides Derived from Diamines"*

2th International Seminar on Polymer Science and Technology Tehran, Iran, Nov. 1977.

6) M. Barikani; S. Mehdipour-Ataei, H. Yeganeh *" Preparation and Properties of Novel Polyamides and Polyimides Through in situ Silylation of rimethoprime"*

13th Congress of Chemistry and Chemical Engineering, Tehran, Iran, 1998.

7) M. Barikani; H. Yeganeh; S. Mehdipour-Araei *"Synthesis and Characterization of Isocyanate Containing Imide Groups and Related Polyimides and Polyurethanes"*

13th Congress of Chemistry and Chemical Engineering, Tehran, Iran, 1998.

8) H. Yeganeh; M. Barikani *"Novel Thermoplastic Poly (urethane-imide)s and their Properties"*

13th Congress of Chemistry and Chemical Engineering, Tehran, Iran, 1998.

9) S. Mehdipour-Ataei ; H. Yeganeh; M. Barikani *"Synthesis and Properties of Novel Optically Active Polymers"*

7th Congress of Organic Chemistry, Tehran, Iran, 1999.

10) H. Yeganeh, M. Barikani, F. Noei Khodabadi "Self Colored Polyurethane Based on Antraquinone"

7th Congress of Organic Chemistry, Tehran, Iran, 1999.

11) H.Yeganeh, S. Mehdipour-Ataei ; M.Barikani *"Synthesis and Characterization of Novel Diisocyanates and Related Poly(urethane-imide)s"*

7th Congress of Organic Chemistry, Tehran Iran, 1999.

12) H. Yeganeh; M. Barikani; F. Noei Khodabadi *" Polyol-Bound Colorants For Polyurethane Foam Dying"*

8th Congress of Organic Chemistry, Kashan, Iran, May, 2000.

13) M. Barikani, Mehdipour-Ataei, ;H. Yeganeh *" Synthesis and Properties of Novel Optically Active Polyimides "*

38th Macromolecular IUPAC Symposium, Warsaw, Poland, Jul. 2000.

14) H. Yeganeh ; M. R. Mehdizadeh *" Synthesis and Properties of Modified Castor Oil Based Millable Polyurethane Elastomer"*

5th Seminar on Polymer Science and Technology , Tehran, Iran, Sep. 2000.

15) B. Tamami; H. Yeganeh; *"Soluble and Thermally Stable Polyimides Based On Novel Diamines Containing Bulky Pendent Groups"*

The 7th International Conference on Polymers in Electronic Packaging, McAfee, New Jersey, USA, Oct., 2000.

16) M. Atai, M. Nekoomanesh, M. Hashemi, H. Yeganeh *"The Interaction of BTDA-based Dimethacrylate Dental Adhesive Monomer with Ca^{+2} Ions of Tooth Structure"*

6th Arab International Conference on Polymer Science and Technology, Ismailia-Sharm El-Sheikh, Egypt, Sep, 2001

17) H. Yeganeh, B. Tamami, I. Ghazi "*Synthesis and Properties of Novel Processable Polyimides via Reaction of D,L-bis(N-2-succinic anhydride) pyrromelitimide with Different Diisocyanates"*

9th Congress of Organic Chemistry, Tehran, Iran, Oct, 2001.

18) H. Yeganeh, B. Tamami, I. Ghazi *"Synthesis and Properties of Novel Diisocyanate Based Optically Active Polyimides"*

9th Congress of Organic Chemistry, Tehran, Iran, Oct, 2001.

19) H. Yeganeh, B. Tamami, I. Ghazi "*Synthesis and Properties of Novel Diisocyanate Based Optically Active Polyimides and Poly (amide-imide)s"*

10th Congress of Organic Chemistry, Rasht, Iran, Sep, 2002.

20) H.Yeganeh, B.Tamami, I.Ghazi "*Preparation and Properties of Novel Processable Optically Active Polyimides Derived from a New Dianhydride"*

10th Congress of Organic Chemistry, Rasht, Iran, Sep, 2002.

21) H. Yeganeh, M. Shamekhi *"Poly (urethane-imide-imide) a New Generation of Polyurethanes With Enhanced Thermal Stability"*

10th Congress of Organic Chemistry, Rasht, Iran, Sep, 2002.

22) H. Yeganeh, F.Afshar Taromi, N. Ghasemi *"Synthesis and Thermal Properties of Novel Flame Retardant Thermoplastic Poly(urethane-imide)s"*

10th Congress of Organic Chemistry, Rasht, Iran, Sep, 2002.

23) H. Yeganeh, Soodabeh Shakiba *"Preparation and Physical Properties of One Component Polyurethane Varnishes for Enameled Wires"*

7th National Congress of Chemical Engineering, Tehran, Iran, Oct, 2002.

24) H. Yeganeh , N. Ghasemi, F.Afshar Taromi *"Preparation and Characterization of Novel Thermally Stable And Flame Retardant Poly (amide-imide- urethane)s"*

6th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, May, 2003

25) H. Yeganeh, F. Shahsavari "*Preparation and Properties of Poly(urethane-urea) Cast Elastomers Based on Triethyleneglycol-bis(4-Aminobenzoate)"*

6th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, May, 2003

26) H. Yeganeh , B. Tamami, I. Ghazie "*A Novel Method for Preparation of Aromatic Polyimids Through Microwave Assisted Polycondensation of Aromatic Dianhydrides and Diisocyanate"*

6th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, May, 2003

27) H. Yeganeh , B. Tamami, Gh. Kohmareh "*Synthesis and Characterization of Novel Thermally Stable Poly (ether-imide)s via Nitro-Displacement Polymerization "*

6th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, May, 2003

28) H. Yeganeh , S. Shakiba "*Kinetic investigation of Curing Reaction of Hydroxyl Terminated Polyurethane Prepolymers with Blocked Isocyanate Curing Agent"*

6th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, May, 2003

29) H. Yeganeh, M.A.Shamekhi *"Preparation and Properties of Novel Polycaprolactone based Polyurethane Varnish for Enameled Wires"*

6th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, May, 2003

30) H. Yeganeh ,M. A. Shamekhi *"Polyhydroxyl Compounds Made via Transesterification of Castor Oil, PET, and PEG Suitable for Preparation of Polyurethane Insulator"*

6th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, May, 2003

31) H. Yeganeh, F. Shahsavaari, *"Preparation and Investigation of Properties of Novel Poly(urethane-urea) as Electrical Insulator"*

8th National Congress of Chemical Engineering, Mashad, Iran, Oct, 2003.

32) H. Yeganeh, F. Shahsavaari, *"Preparation and Investigation of Properties of Polyurethane Foams Based on Poly(oxytetramethylene*)triol"

8th National Congress of Chemical Engineering, Mashad, Iran, Oct, 2003.

33) H. Yeganeh, F. Shahsavaari, *" Synthesis and Investigation of Physical Properties of Poly(urethane-urea) Elastomers Made from Reaction of Polycaprolactone Based Polyurethane Prepolymers and Triethylene glycol-bis(4-aminobenzoate) Curing Agent"*

8th National Congress of Chemical Engineering, Mashad, Iran, Oct, 2003.

34) B. Tamami, H. Yeganeh, Gh.. Kohmareh, *"Synthesis and Characterization of Some New Thermally Stable Polyesters Derived from 4-Aryl-2,6-bis (4-Chlorocarbonyl phenyl) Pyridines"*

14th Iranian Chemistry & Chemical Eng. Congress, Tehran, Iran, Feb. 2004.

35) B. Tamami, H. Yeganeh, Gh. Kohmareh, *"Synthesis and Characterization of Novel Polyureas Derived from 4-Aryl-2,6-Bis (4-aminophenyl)pyridines and diisocyanates"*

IUPAC 40th International Symposium on Macromolecules Paris, France, Jul., 2004.

36) H. Yeganeh, M. M. Lakouraj, S. Jamshidi "*Preparation, Characterization and Degradation Behavior of Novel Polyurethane"*

9th Iranian Chemical Eng. Congress, Tehran, 23-25 Nov, 2004.

37) H. Yeganeh, S. Naghdi, *"Synthesis and Characterization of Novel Poly(amide-imide)s Derived from New Diimide-Dicarboxilic Acid Monomers"*

9th Iranian Chemical Eng. Congress, Tehran, 23-25 Nov, 2004.

Selected as one of the top papers presented at congress

38) H. Yeganeh, M. M. Lakouraj, S. Jamshidi *"Synthesis and Characterization of Novel Elastomeric Biodegradable Polyurethane Blends"*

11th Iranian seminar of Organic chemistry, 1-3 Feb., 2005

39) H. Yeganeh, S. Jamshidi, P. Hojati *"Preparation and Properties of Thermally stable Poly(urethane-imide)s Networks*

7th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, Nov, 2005.

40) H. Yeganeh and H. R. Moeini "*Novel Green Polyurethane Insulating Coatings Based on Polyols Derived from Glycolyzed PET, Castor Oil and Adipic Acid"*

7th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, Nov, 2005.

41) H. Yeganeh and H. R. Moeini "*Synthesis and Properties of Novel Polyurethane-urea Insulating Coatings from Hydroxyl Terminated Prepolymers and*

Blocked Isocyanate Curing Agent"

7th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, Nov, 2005.

42) H. Yeganeh S. Jamshidi, F. Taromi "*Synthesis and Characterization of Novel Poly(amide-imide)s Derived from New Diamide-Diamine Monomers*

7th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, Nov, 2005.

43) H. Yeganeh, S. Jamshidi "*Synthesis, Characterization and Properties of Novel Thermally Stable Poly(urethane-oxazolidone)s Elastomers"*

7th Iranian Seminar on Polymer Science and Technology, Tehran, Iran, Nov, 2005.

44) H. Yeganeh, F. Orang, A. Solouk "*Preparation and Evaluation of Bio and Blood Compatibility of Novel Epoxy-Modified Polyurethanes"*

12th Iranian Seminar of Organic Chemistry, Ahvaz, Iran, March, 2006.

45) H. Yeganeh, M. Atai, P. Hojati "*Evaluation of Thermal Stability of Novel Crosslinked Poly(urethane imide) Films"*

12th Iranian Seminar of Organic Chemistry, Ahvaz, Iran, March, 2006.

46) H. Yeganeh, H. Jamshidi, S. Jamshidi, "*Preparation and Properties of Poly(ethylene glycol) based Poly(epoxy-urethane) Hydrogels"*

12th Iranian Seminar of Organic Chemistry, Ahvaz, Iran, March, 2006.

47) H.Yeganeh, H. Jamshidi, S. Jamshidi, "*Physicochemical Properties and in vitro Biocompatibility of PEG Based Polyurethane/ Segmented Polyurethane Blends"*

12th Iranian Seminar of Organic Chemistry, Ahvaz, Iran, March, 2006.

48) H. Yeganeh, S. Jamshidi, A. Solouck, H. Jamshidi, P. Hojati "*Synthesis, Characterization and Properties of Epoxy-Modified Polyurethanes as a Novel Class of Biomaterials"*

4th International Symposium on High-Tech Polymer Materials May 2006, Beijing, China (Invited presentation)

49) H.Yeganeh, H.Jamshidi, S. Jamshidi *"Synthesis and Properties of Novel Poly(urethane-urea) Elastomers via Utilization of a Very Mild and Efficient Method"*

13th Iranian Seminar of Organic Chemistry 7-9 September 2006 , Hamedan, Iran

50) H. Yeganeh, P. Hojati Talemi "*Preparation of Novel Biodegradable Polyurethanes Based on Castor oil and Poly(ethylene glycol)"*

13th Iranian Seminar of Organic Chemistry 7-9 September 2006 , Hamedan, Iran

51) H. Yeganeh, M. Nekoomanesh Haghighi, M. Djalilian *"Carbonated Soybean Oil as Starting Material for Synthesis of Biostable Nonisocyanate Polyurethanes Biomaterials"*

ISPST 8th International Seminar on Polymer Science and Technology, Tehran, Iran, 2007

52) H. Yeganeh, M. Razavi-Nouri, M.Ghaffari *"Preparation and Characterization of Novel Polyurethane/Polybenzoxazine Interpenetrating Polymer networks"*

ISPST 8th International Seminar on Polymer Science and Technology, Tehran, Iran, 2007

53) H. Yeganeh, M. Razavi-Nouri, M.Ghaffari *"Novel Electrical Insulators from Alloys of High Molecular Weight Polybenzoxazine Precursor and Blocked Polyurethanes"*

ISPST 8th International Seminar on Polymer Science and Technology, Tehran, Iran, 2007

54) H. Yeganeh,, M.Ghaffari *" Novel Poly(urethane-imide)s via Reactive Blending of Poly(hydroxyimide) and Epoxy-terminated Polyurethane Prepolymers*

ISPST 8th International Seminar on Polymer Science and Technology, Tehran, Iran, 2007

55) H. Yeganeh, M. Nekoomanesh Haghighi, M. Djalilian *"Novel Green Polyurethane Electrical Insulating Coatings Derived from Soybean Oil based Polyol"*

ISPST 8th International Seminar on Polymer Science and Technology, Tehran, Iran, 2007

56) H. Yeganeh, S.Mehdipour-Ataei and S. Jamshidi *"Synthesis and Characterization of Novel Poly(urethane-benzoxazine)s"*

ISPST 8th International Seminar on Polymer Science and Technology, Tehran, Iran, 2007

57) H. Yeganeh, M. Nekoomanesh Haghighi, M. Djalilian *"Polyurethane Coatings Based on Novel Soybean oil Polyol and Different Weight Percent of PPG"*

ISPST 8th International Seminar on Polymer Science and Technology, Tehran, Iran, 2007

58) S.Mehdipour-Ataei, A. Banihashemi, H. Yeganeh, A. Rabiee, *"New Types of Sulfonated Copolyimides for Application in Proton Exchange Membrane Fuel Cell: Synthesis and Characterization"*

ISPST 8th International Seminar on Polymer Science and Technology, Tehran, Iran, 2007

59) H. Yeganeh, M. Nekoomanesh Haghighi, M. Jalilian *"Biodegradable and Biocompatible Polyurethanes Derived from Carbonated Soybean Oil through Nonisocyanate Route as Novel Biomaterials"*

International Conference on Natural Polymers, Kottayam, India, Nov. 2007 (Invited presentation)

60) H. Yeganeh, H. Mirzadeh, F. Shokrolahi, *"Fabrication and Properties of Biodegradable Poly(urethane urea) Scaffold for Bone Tissue Engineering"*

International Conference on Natural Polymers, Kottayam, India, Nov. 2007

61) A. Solouck, H.Mirzadeh , H. Yeganeh *"Injectable, Biodegradable Poly(DL-lactide-co-glycolide) Carboxyl Terminated for Cartilage Tissue Engineering: In vivo"*

XXXIV. Annual Congress of the European Society for Artificial Organs, KREMS – AUSTRIA, Sep 5th – 8th ,2007

62) A. Rabiee, S. Mehdipour-Ataei, A. Banihashemi, H. Yeganeh "Synthesis and Characterization of Novel Sulfonated Copolyimides Containing Ether, Sulfone and Bulky Naphthyl Group for Proton Exchange Membrane Fuel Cell".

European Polymer Congress, Portoroz, Slovenia, 2-6 July, 2007.

63) H. Yeganeh, M. Ghafari, A. Jangi, *"Benzothiazole Modified Polyurethanes as a Novel Class of Elastomers with Improved Thermal Stability and Electrical Insulation Property"*

Fifth International Conference on Polymer Modification, Degradation and Stabilization (ModeSt 2008), Liege, Belgium, 7-11 Sep. 2008.

64) H. Yeganeh, M. Nekoomanesh Haghigi, M. Djalilian *"Preparation of Biocompatible Polyurethanes with Tunable Biodegradation Rate Derived From Carbonated Soybean Oil "*

Fifth International Conference on Polymer Modification, Degradation and Stabilization (Modest 2008), Liege, Belgium, 7-11 Sep. 2008.

65) L. Akbarian-Feizi, S. Mehdipour-Ataei, H. Yeganeh *"Synthesis of New Sulfonated Copolyimides with Built in Ether and Oligo Ethylene Glycol Sequence"*

6th International Chemical Engineering Congress & Exhibition (IChEC **2009), Kish Island, Iran, 16-20 November 2009.**

66) L. Akbarian-Feizi, S. Mehdipour-Ataei, H. Yeganeh, *"Synthesis and Characterization of New Sulfonated Copolyimide Membrane Based on Benzophenone"*

16th Iranian Conference of Organic Chemistry, Zanjan **University,** Zanjan**, Iran, 18-20 August 2009.**

67) L. Akbarian-Feizi, S. Mehdipour-Ataei, H. Yeganeh, *"Survey of Sulfonated Polyimide Membrane as a Good Candidate for Nafion Substitution"*

The First National Conference on hydrogen and Fuel Cell, Iran University of Science and Technology, Tehran, Iran, 20-21 January 2009.

68) S. Jamshidi, H. Yeganeh, S. Mehdipour-Ataei, *"One pack two component benzoxazine modified polyurethanes as novel electrical insulating coating"*

9th International Seminar on Polymer Science and Technology, Iran Polymer and Petrochemical Institute, Tehran, Iran, 17-21Oct. 2009.

69) S. Jamshidi, H. Yeganeh, S. Mehdipour-Ataei , *"Preparation and properties of tough poly(urethane-benzoxazine)s thermoset with low curing temperature"*

9th International Seminar on Polymer Science and Technology, Iran Polymer and Petrochemical Institute, Tehran, Iran, 17-21Oct. 2009

70) L. Akbarian-Feizi, S. Mehdipour-Ataei, H. Yeganeh, *"Synthesis of new sulfonated copolyimides with built in ether, carbonyl and naphthyl bulky groups in structures"*

9th International Seminar on Polymer Science and Technology, Iran Polymer and Petrochemical Institute, Tehran, Iran, 17-21Oct. 2009.

71) H. Yeganeh, S. Mehdipour-Ataei, S. Jamshidi, A. Jangi, *"High Performance Thermally Curable Polyurethanes Containing Benzoxazine or Naphthoxazine Groups in the Main Chain"*

World Forum on Advanced Polymeric Materials: Synthesis, Properties, characterization (POLYCHAR 18), Siegen, Germany, 7-10 April 2010.

72) R. Gharibi, M. Yousefi, H. Yeganeh *"Castor Oil based Poly(urethane-co-pyrrole)s as Novel Electroactive Anticorrosive Coatings for Steel"*

Polymer Processing Society 2011 Asia/Australia Regional Meeting, Kish Island, Iran, Nov. 15-17, 2011

73) A. Yari, H. Yeganeh., H. Bakhshi, *"Castor oil based polyurethane coatings with efficient antibacterial function and high biocompatibility via incorporation of glycidyltriethylammonium chloride"*

Polymer Processing Society 2011 Asia/Australia Regional Meeting, Kish Island, Iran, Nov. 15-17, 2011

74) H. Bakhshi H.Yeganeh, S. Mehdipour-Ataei, M.A. Shokrgozar, A. Yari, S. Nasirodin Saeedi-Eslami *"Synthesis and Characterization of Antibacterial Polyurethanes Coatings from Novel Quaternary Ammonium Functionalized Soybean Oil-Based Polyols"*

Polymer Processing Society 2011 Asia/Australia Regional Meeting, Kish Island, Iran, Nov. 15-17, 2011

75) H. Bakhshi, H. Yeganeh, A. Yari, *"Polyurethane Coatings Based on Castor Oil and Benzyl Triethanol Ammonium Chloride: Synthesis, Characterization and Biological Properties"*

Polymer Processing Society 2011 Asia/Australia Regional Meeting, Kish Island, Iran, Nov. 15-17, 2011

76) M Seifali Abbas-Abadi, M Nekoomanesh Haghighi, H Yeganeh, *"Evaluation of pyrolysis product of virgin polypropylene degradation using different carrier gases in a stirred reactor"*

ISPST2012, Amirkabir University of Technology, Tehran, Iran, 21-25 October 2012

77) M Seifali Abbas-Abadi, M Nekoomanesh Haghighi, H Yeganeh, *"Effect of the melt flow index and melt flow rate on the thermal degradation kinetics of commercial High Density Polyethylenes"*

ISPST2012, Amirkabir University of Technology, Tehran, Iran, 21-25 October 2012

78) M Seifali Abbas-Abadi, M Nekoomanesh Haghighi, H Yeganeh, *"Consideration of used FCC catalyst effect on the virgin HDPE degradation in a stirred reactor"*

ISPST2012, Amirkabir University of Technology, Tehran, Iran, 21-25 October 2012

79) M Safaee, H Yeganeh, M Atai, *"Shrinkage strain and conversion in thiol-ene systems for dental resins"*

ISPST2012, Amirkabir University of Technology, Tehran, Iran, 21-25 October 2012

80) S Karbalaeinezhad, H Yeganeh, "*Synthesis and antibacterial properties of polyurethane nanocomposites containing silver nanoparticles"*

ISPST2012, Amirkabir University of Technology, Tehran, Iran, 21-25 October 2012

81) S Beigi, M Atai, H Yeganeh, "*Evaluation of a thiol-ene-methacrylate system as dental restorative material with low shrinkage stress and high monomer conversion"*

ISPST2012, Amirkabir University of Technology, Tehran, Iran, 21-25 October 2012

82) H Yeganeh, *"Glycidyl carbamate functional resins, versatile intermediates for the preparation of high performance polymeric networks"* ***(Keynote Lecture)***

ISPST2012, Amirkabir University of Technology, Tehran, Iran, 21-25 October 2012

83) H Bakhshi, H Yeganeh, S Mehdipour-Ataei, "*Synthesis and Evaluation of Antibacterial Polyurethane Coatings Made from Soybean Oil Functionalized with Dimethylphenylammonium Iodide and Hydroxyl Groups"*

ISPST2012, Amirkabir University of Technology, Tehran, Iran, 21-25 October 2012

84) S Karbalainezhad, H Bakhshi, H Yeganeh, *Preparation of Antibacterial Wound Dressing Membranes based on Chitosan and Multifunctional Epoxy Crosslinkers with Build-in Quaternary Ammonium Salts"*

ISPST2012, Amirkabir University of Technology, Tehran, Iran, 21-25 October 2012

85) F Shokrolahi, H Yeganeh, H Mirzadeh, "*Segmented Biodegradable Poly (urethane urea) Based on PCL/PEG: in vitro Degradation and Calcification"*

ISPST2012, Amirkabir University of Technology, Tehran, Iran, 21-25 October 2012

86) F Shokrolahi, H Mirzadeh, H Yeganeh, M R Baghban Eslami, F Bagheri, "*hMSC Osteogenic Differentiation on Biodegradable Poly (urethane urea)"*

ISPST2012, Amirkabir University of Technology, Tehran, Iran, 21-25 October 2012

87) Hoshyar Gholami, Hamid Yeganeh, Mehrdad Jalilian, Reza Gharibi, Marziyeh Sorayya "*Biocidal and Cytocompatible Polytriazole Coatings based on Soybean Oil"*

ISPST2014, IPPI, Tehran, Iran, 6-9 October 2014

88) Reza Gharibi, Hamid Yeganeh, *"Aniline-Tetramer Embedded Polyurethane/Siloxane Membranes as Novel Electroconductive Wound Dressing Materials"*

ISPST2014, IPPI, Tehran, Iran, 6-9 October 2014

89) M. Moradi, S.a Pazokifard, H. Yeganeh, *"Synthesis and Assessment of Novel Anticorrosive Polyurethane Electro-deposition Coatings"*

ISPST2014, IPPI, Tehran, Iran, 6-9 October 2014

90) Z. Abdali, R. Gharibi, A. Solouk, H. Yeganeh, "*Thermosensitive and Antibacterial Semi-Interpenetrating Polymer Network Based on Polyurethane and Poly(n-isopropylacrylamide) for Wound Dressing Application"*

ISPST2014, IPPI, Tehran, Iran, 6-9 October 2014

91) M.Haghayegh, S.M.Mirabedini, H.Yeganeh, " *Microencapsulation of Bulky Multi Functional Reactive Isocyanates into Polyurethane Shell: Controlling the Microcapsules Size by Mixing Rate and Surfactant Concentration***"**

ISPST2014, IPPI, Tehran, Iran, 6-9 October 2014

92) H.Yeganeh, " Engineered polymers from vegetable oil based raw materials" ***(Keynote Lecture)***

ISPST2014, IPPI, Tehran, Iran, 6-9 October 2014

Book

H. Yeganeh, *"Polyurethane/Polybenzoxazine Alloys"* **in Handbook of Polybenzoxazine Resins,** Chap: 21, Ed. Hatsuo Ishida, Tark Agag, Elsevier, 2011

Patents

H. Yeganeh, P. Hojati-Talemi, *"Vegetable Oil based Polyurethanes with Improved Thermal Stability"*

Iranian Patent 36404, 2006

A. Khosroshahi, H. Naderimanesh, Y. Omidi, H. Yeganeh, "Design and Preparation of Waterborne Polyurethane Dispersion for Aqueous Nano-micellar Paclitaxel Delivery"

Iranian Patent 2011 , 68451

M. Sahraroo, M. Yari, H.Yeganeh, "Prepaartion and characterization of antibacterial poly(epoxy urethane)s wound dressings containing from epoxy functional quaternary ammonium salts"

Iranian Patent 2014 , 81655

M. Sahraroo, H.Yeganeh, "Preparation and characterization of absorptive antibacterial wound dressings containing guanidinium hydrochloride active agent

Iranian Patent 2014 , 81657

Honors

Associate editor of **Iranian Polymer Journal** http://link.springer.com/journal/13726

Member of **Center of Excellence for Biopolymers, Ministry of Science, Iran**

Member of **Center of Excellence for Polyurethanes, Ministry of Science, Iran**

Completed and Current Research Projects Participated

1. *Preparation of Processable Copolymers and Stable Composites from Conducting Polymers*, Tabriz University, Tabriz, Iran, 1994.

2. *Preparation and Application of Polymeric Oxidizing Agents Based on Metal Peroxides*, Shiraz University, Shiraz, Iran, 1997

3. *Preparation of Polymeric Reducing Agents Containing Chloroaluminum Borohydride,* Shiraz University, Shiraz Iran, 1997.

4. *Preparation and Characterization of Thermally Stable Polyamides and Polyimides from Novel Diacids and Diamines*, Shiraz University, Shiraz, Iran 1997.

5. *Synthesis of Novel Diisocyanates and Polymers Made From Them*,

This project was financially supported by IPPI, Tehran, Iran,1998

6. *Preparation of Oligomeric Diamines Based on Polytetrahydrofuran*,

This project was financially supported by IPPI, Tehran, Iran, 1999

7. *Preparation and Properties of Millable Polyurethane Elastomers*,

This project was financially supported by IPPI, Tehran, Iran, 2001

8. *Preparation of Abrasion Resistant Coating Based on Hybrid Organic-Inorganic Polymers via Sol-Gel Method*, Shiraz University, Shiraz, Iran, 2000,

This work was a National Project and financially supported by Ministry of Science.

9. *Preparation and Investigation of Properties of Thermoplastic Polyurethane Elastomers Based on Poly (tetramethylene ether) glycol*, IPPI, Tehran, Iran, 2002.

This project financially supported by Iran Petrochemical Company, Research and Development Department.

10. *Synthesis of Poly(ethylene glycol)bis (4-aminobenzoate) and its Uses as Curing Agent for Preparation of Polyurethane Cast Elastomer*, IPPI, Tehran, Iran, 2003.

This project is financially supported by Research & Technology Company of Petrochemical Industry (Pouyesh Site)

11. *Preparation and Use of Poly (tetramethylene ether) glycol with Functionality Greater Than Two for Preparation of Polyurethane Products*, IPPI, Tehran, Iran,

This project is financially supported by Research & Technology Company of Petrochemical Industry (Pouyesh Site) 2003.

12. *Synthesis and Investigation of Properties Novel Biodegradable Polyurethane Elastomers*,

This project was financially supported by IPPI, Tehran, Iran, 2004.

13. *Preparation of Polyurethane and Poly(urethane imide) Resins based on Recycled PET*

This project was financially supported by Ministry of Industry and Mining. 2005

14. *Investigation of addition and crosslinking of PEO containing epoxy resin for reducing platelet and protein absorption on polyurethane elastomers*

This project was financially supported by IPPI, Tehran, Iran, 2005

15. *Preparation and investigation of properties of polymeric membranes for fuel cells based on copolyimides*

This project was financially supported by Iran National Science Foundation, 2005

16. *Preparation of ABA block copolymer of HTPB and PCL with molecular weight of 5000*

This project was financially supported by IPPI, Tehran, Iran, 2005

17. *Developing new grade of modified polyurethanes as Electrical Insulator coatings*

This project was financially supported by Iran National Science Foundation, 2006

18. *Preparation of poly(urethane-urea) obtained from a very mild and efficient method for biomedical applications*

This project was financially supported by Center of Excellence for Biopolymers, 2008

19. *Preparation and properties of antimicrobial polyurethane coatings*

This project was financially supported by Center of Excellence for Biopolymers, 2009

20. Preparation and evaluation of waterborne polyurethane nanodrugs based on Pacltoxel active agent for treatment of breast cancer (invitro and invivo study in mouse model)

This project was financially supported by Tarbiat Modaress University, Tehran, Iran 2010

21. Development of new electrical insulator coatings based on polyurethane/phenolics

This thesis was financially supported by Resitan Company, Iran, 2010

22. Preparation and evaluation of waterborne polyurethane nanodrugs based on Curcumin active agent for treatment of breast cancer, (invitro and invivo study in mouse model)

This project was financially supported by Tarbiat Modaress University, Tehran, Iran, 2012

23. Preparation and evaluation cardiac patch based on electroactive polyurethane scaffold containing oligomeric aniline moieties for treatment of myocardial infarction, 2013

This project was financially supported by Iran National Science Foundation

24. Preparation of thermosensitive polyurethane wound dressings for cells transplantation and accelerated wound healing

This project was financially supported by Tehran Medical University, Tehran, Iran 2014

25. Synthesis and evaluation of electroactive antibacterial wound dressings

This project was financially supported by IPPI, and Iran Nanotechnology Initiative Council, Tehran, Iran, 2014

Thesis Supervised

a) Thesis Presented for Degree of Ph.D. in Polymer Engineering

1. *"Preparation of Different Polyurethane Products from Renewable resource Raw Materials"*

By: Mehrdad Jalilian, IPPI, Feb 2009

Co supervisor: Prof. Nekoomanesh,

2. *"Synthesis and Application of Polyurethane Modified Polybenzoxazine"*

By: Sadegh Jamshidi, IPPI, Nov 2010

Co supervisor: Prof. Mehdipour-Ataei

3. *"Synthesis and Evaluation of Poly(urethane-urea)s as Scaffold for Bone Tissue Engineering"*

By: Fatemeh Shokrollahi, IPPI, Jun, 2011

Co supervisor: Prof. Mirzadeh

4. *"Synthesis of Novel Sulfonated Polyimide Membrane for Fuel Cell Application"*

By: Leilla Akbarian Feizi, IPPI, Sep, 2011.

Co supervisor: Prof. Mehdipour-Ataei

5. *" Synthesis and Applications of Antibacterial Polyurethanes based on Functional Vegetable Oils"*

By: Hadi Bakhshi, IPPI, 2013

Co supervisor: Prof. Mehdipour-Ataei

6. *"Preparation and evaluation of novel antibacterial dental restorative materials containing POSS nanostructures through Thiol-ene reaction"*

By: Saeed Beigi, IPPI, 2015

Co supervisor: Dr Atai

This thesis is financially supported by Iran Nanotechnology Initiative Council

7. *"Synthesis, characterization and evaluation of novel electroactive and antibacterial polyurethane nanocomposites as wound dressing membranes with accelerated healing properties"*

By: Reza Gharibi, IPPI, 2015

This thesis is financially supported by Iran Nanotechnology Initiative Council

b) Thesis Presented for Degree of Ph.D. in Tissue Engineering

1. *"Preparation of novel cardiac patch made from electroactive polyurethane seeded with rat cardiomycites for treatment of myocardial infarction"*

By: Nafiseh, Baheiraei, IPPI and Tehran University of Medical Science, 2014

Co supervisor: Dr. J. Ai

2. "Preparation of thermoresonsive wound dressing membranes for transplantation of cells to wounded area"

By Alireza Rezapour, IPPI and University of Tehran, in progress

Co supervisor: Prof. Ostad

c) Thesis Presented for Degree of Ph.D. in nNanobiotechnology

1. "Synthesis and in vitro evaluation of novel antibacterial electroactive wound dressing membranes based on graphene/polyurethane nanocomposites"

By Elias Shams, IPPI and Tarbiat Modares University, Tehran, Iran, in progress

Co supervisor: Prof. Naderi-Manesh

d) Thesis Presented for Degree of M.Sc. in Polymer Science and Engineering

1. *"Preparation and Properties of Self-Colored Polyurethane Based on Anthraquinone Dyes"*

By: Feridoun Noei Khodabadi, Sep, 1999, IPPI

Co-Supervisor: Prof. M. Barikani

2. *"Preparation and Investigation of Physical and Mechanical Properties of Millable Polyurethane Elastomers Based on Castor Oil"*

By: Mohammad Reza Mehdizadeh, Oct. 2000, IPPI

3. *"Preparation and Investigation of Physical and Mechanical Properties of One-Component Polyurethane Varnishes for Copper Wire"*

By: Soudabeh Shakiba, Dec, 2002, IPPI.

4. *"Preparation and Investigation of Physical and Mechanical Properties of Modified Polyurethane Varnishes as Insulator for Coating of Copper Wire"*

By: Mohammad Amine Shamekhi, Nov., 2003, IPPI

5. *"Preparation and Properties of Polyurethane Coatings as Electrical Insulator"*

By: Hamid Reza Moeini, IPPI, Nov, 2005, IPPI.

6. *"Preparation and Properties of Novel Poly(urethane-imide)s Coatings as Electrical Insulators"*

By: Pejman Hojati, IPPI, Agu, 2006.

Co-Supervisor: Dr. M. Atai

7. *"Preparation and Investigation of Physical, Mechanical and Electrical Properties of Novel Poly(urethane benzoxazine)s"*

By: Mehdi Ghafari, IPPI, Oct 2007.

Co-Supervisor: Dr M. Razavi-Nouri

8. *"Preparation and Investigation of Physical, Mechanical and Electrical Properties of Novel Silicon based Poly(urethane benzoxazine)s"*

By: Abolfazl Jangi, IPPI, April 2009

9. *"Preparation of Novel Anticorrosive Polymeric Coatings for Steel via Electrochemical Method"*

By: Reza Gharibi,IPPI, Sep, 2011.

Co supervisor: Dr. M. Yousefi

10. " *Synthesis and Characterization of Novel Antibacterial Polyurethanes"*

By: Abbas Yari, IPPI, Nov, 2011,

11. *"Synthesis and Properties of Antibacterial Polyurethane Nanocomposites Containing Nano Silver Particles through simultaneous Photopolymerization and Electron Transfer Processes"*

By: Sakineh Karbalaeinezhad, IPPI Jan, 2013

12. *"Preparation and Properties of Thiol-ene Photocurable Dental Adhesives Containing Nano POSS Moieties and Functional Thiol compounds"*

Mahdyeh Safaei, IPPI, Feb, 2013.

Co supervisor: Dr. M. Atai

13. *" Preparation and properties of antibacterial coatings derived from quaternary ammonium salt containing soybean oil through Thiol-Ene methodology"*

By: Hooshyar Ghorbani, IPPI, 2014,

Co supervisor: Dr. M. Jalilian.

14. *"Evaluation of novel anticorrosive coatings through cationic electrodeposition method derived from polyurethanes"*

By Maryam Moradi, IPPI, 2014,

Co supervisor: Dr. Pazooki.

14. Evaluation of physic-mechanical and biological properties of novel coatings through combination of cationic electrophoretic deposition and click chemistry

By Nsfiseh Babaei, IPPI, 2015, In progress

d) Thesis Presented for Degree of M.Sc. in Chemistry

1. "*Preparation and properties of Modified Polyurethane Elastomers with Enhanced Thermal Stability and Flame Retardancy"*

By: Nona Ghasemi, Mar., 2003, IPPI.

Co-Supervisor: Prof. F. Afshar Taromi (Amir Kabir University of Technology, Tehran, Iran)

2. *"Investigation of Curing Kinetic of Epoxy-Urethane Resins via Differential Scanning Calorimetry Method"*

By: Hamid Reza Saveh, Jan., 2004, IPPI,

Co-Supervisor: Dr A. R. Salabat (Arak University, Arak, Iran)

3. *"Synthesis and Properties of Novel Biodegradable Polyurethane Based on Polycaprolactone polyol"*

By: Sadegh Jamshidi, Feb, 2005, Mazandaran University.

Co-Supervisor: Dr. M. M. Lakouraj (Mazandaran University, Baboolsar, Iran)

4. *"Synthesis of PEG based Epoxy Modified Polyurethane Networks and Investigation of Their Complexation with $LiClO_4$ for Dry Battery Application"*

By: Sara Zangoui, Feb 2008, Khajeh Nasir University

Co-Supervisor: Dr: A. Rooholahi (Khajeh Nasir University)

5. *"Synthesis and Evaluation of Novel Polyurethanes with Improved Thermal Stability and Flame retardancy"*

By: Fatemeh Abdollahi , Nov 2010, Khajeh Nasir University

e) Thesis Presented for Degree of MSc in Medical Engineering (Biomaterials)

1. *"Synthesis and Properties of Novel Biocompatible Polyurethanes and Evaluation of their Blood Compatibility"*

By: Atefeh Solouk, Jan, 2006, Amir Kabir University of Technology, Tehran, Iran

Co supervisor: Dr Orang (Amir Kabir University of Technology, Tehran, Iran)

2. Preparation of thermoresponsive polyurethane wound dressing through thiol-ene polymerization

By: Zahra Abdali, IPPI and Amir Kabir University of Technology, 2014

e) Thesis Presented for Degree of MSc in Biochemistry

1. *" Preparation and Investigation of Antimicrobial Properties of Hydantoin Modified Polyurethanes"*

By: Sivash Nafisi, IPPI and Payam Noor University, Tehran, Feb 2009

Co supervisor: Dr. Haji Hosseini

Courses Taught

1. Advanced polymer chemistry (Ph.D. course)

2. Special Topics in Polymers (Ph.D. course)

3. Thermal Analysis (Ph.D. course)

4. Polymer Synthesis (M.Sc. course)

5. Chemistry and Kinetic of Polymerization I (M.Sc. course)

6. Chemistry and Kinetic of Polymerization II (M.Sc. course)

7. Fundamentals of Polymer Science (B.Sc course)

8. Polymer Technology (B.Sc. course)

Other Professional Activities

1. Irregular reviewer for many scientific Journals in polymer and material science,
   - Iranian Polymer Journal (English)
   - Iranian Journal of Polymer Science & Technology (Persian)
   - European Polymer Journal
   - Journal of Applied Polymer Science
   - Polymer International
   - Polymer for Advanced Technologies
   - e-Polymers
   - Macromolecular Rapid Communication
   - e-Express polymer letter

- Journal of Bioactive and Compatible Polymers
- Surface and Coatings Technology
- Applied Surface Science
- Biomacromolecules

2. Organizer and main lecturer of following workshops

- Chemistry and Technology of Polyurethanes
- Special Polymeric Products, Polyurethanes and Polystyrene Foams
- Polymer Additives
- New Method of Polymer Synthesis

3. Member of scientific committee and referee of papers submitted to Seminars concerning polymers in Iran

4. Analysis and characterization of industrial polymers

5. Committee member for the evaluation of MSC and PhD thesis and new faculty members

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