

14

th International Seminar
on Polymer Science and Technology



Word of Welcome

Dear Participant,

It is my great pleasure and honor to invite all polymer scientists and specialists to the 14th international seminar on polymer science and technology, ISPST 2020, which is to be held on November 11,12, 2020 in Tehran, Iran. Department of Polymer Engineering, Faculty of Chemical Engineering at Tarbiat Modares University in conjunction with the Iran Polymer Society (IPS) has the great privilege to host this important event. Previous series of ISPST have successfully provided a room for the exchange of knowledge among the academics working on polymer science and technology all over the world. With the continuation of previous objectives and goals, the upcoming gathering hopes to undertake a special task on establishing a closer link between the knowledge-oriented and technology-oriented researches, thereby promoting the transfer of knowledge between the academic area and industry. Members of industries are warmly welcome to discuss possibilities of cooperation in technology development and education in polymers alongside the seminar in special panels. The selected papers will be published in the "Iranian Polymer Journal" by the Springer International Publishing AG. The conference will be accompanied by an exhibition of products and activities of the most notable companies working in the Iran polymer industries.

Mehdi Razzaghi Kashani

Dr. M. Razzaghi-Kashani
ISPST 2020 President

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Dear Colleagues,

Iranian Polymer Society invites all the participants from all over the world to attend "14th International Seminar on Polymer Science and Technology" during 11,12 November 2020 in Tehran, at Tarbiat Modares University. This international gathering is primarily devoted to Application of Polymers in Management of Natural Disasters and includes Keynote presentations, Orals and interactive discussions, Poster presentations and Exhibitions on both scientific and social aspects of vast polymeric research activities. This long standing and biggest event on polymer science and technology in Iran seeks to achieve the best collection of expertise from academia and industry throughout Iran and other countries.

My colleagues and I would like to acknowledge and extend our gratitude to the hard working staff and students at Faculty of Chemical Engineering at Tarbiat Modares University to provide all the facilities to organize this event and share their experiences with all the participants to assure the best scientific gathering.

As the president of IPS, I have the honor to make sure that such scientifically versatile seminar fulfills its immediate and future objective goals.

M. Nekoomanesh

IPS President and Scientific Chair

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About ISPST

The 14th International Seminar on Polymer Science and Technology (ISPST 2020) is the continuation of the ISPST past successful series, which is aimed to provide a forum for presentation, discussion and disseminations of current and future trends in polymeric materials and to facilitate information exchange among researchers with diverse interests, in various polymeric fields.

The previous 13 seminars were:

- **ISPST 2018, Amirkabir University of Technology, Tehran, Iran.**
- **ISPST 2016, Islamic Azad University, Tehran, Iran.**
- **ISPST 2014, Iran Polymer and Petrochemical Institute, Tehran, Iran.**
- **ISPST 2012, Amirkabir University of Technology, Tehran, Iran.**
- **ISPST 2009, Iran Polymer and Petrochemical Institute, Tehran, Iran.**
- **ISPST 2007, Sharif University of Technology, Tehran, Iran.**
- **ISPST 2005, Amirkabir University of Technology, Tehran, Iran.**
- **ISPST 2003, Iran Polymer and Petrochemical Institute, Tehran, Iran.**
- **ISPST 2000, Amirkabir University of Technology, Tehran, Iran.**
- **ISPST 1997, Iran Polymer and Petrochemical Institute, Tehran, Iran.**
- **ISPST 1994, Shiraz University, Shiraz, Iran.**
- **ISPST 1990, Amirkabir University of Technology, Tehran, Iran.**
- **ISPST 1986, Amirkabir University of Technology, Tehran, Iran.**

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Scientific Committee

- **Dr. M. Razzaghi-Kashani, Chair of Scientific Committee**

Tarbiat Modares University, mehdi.razzaghi@modares.ac.ir

- **Prof. M. Nekoomanesh, IPS President**

Iran Polymer and Petrochemical Institute, m.nekoomanesh@ippi.ac.ir

- **Dr. J. Aalaie**, Research Institute of Petroleum Industry, aalaiej@ripi.ir

- **Prof. F. Abbasi**, Sahand University of Technology, f.abbasi@sut.ir

- **Dr. A. Abbasian**, Islamic Azad University, abbasian@sbiau.ac.ir

- **Dr. Khalina b. Abdan**, Department of Biological and Agricultural Engineering,
University Putra Malaysia, Malaysia, khalina@upm.edu.my

- **Dr. M. Abdollahi**, Tarbiat Modares University, abdollahim@modares.ac.ir

- **Pro. A. Ali**, Department of Mechanical Engineering,
University Pertahanan Nasional Malaysia, Malaysia, aidyali@upnm.edu.my

- **Dr. I. Amiri Amraei**, Malek Ashtar University of Technology, iraj_amiri@yahoo.com

- **Dr. M. Baghban Salehi**, Chemistry and Chemical Engineering Research Center of Iran,
m.bsalehi@ccerci.ac.ir

- **Prof. R. Bagheri**, Isfahan University of Technology, bagheri@cc.iut.ac.ir

- **Prof. R. Bagheri**, Sharif University of Technology, rezabagh@sharif.edu

- **Dr. J. Barzin**, Iran Polymer and Petrochemical Institute, J.barzin@ippi.ac.ir

- **Dr. S. Bazgir**, Islamic Azad University, sbazgir@sbiau.ac.ir

- **Prof. M.H. Beheshty**, Iran Polymer and Petrochemical Institute, m.beheshty@ippi.ac.ir

- **Prof. D.M. Devin**, Material Research Institute, Athlone Institute of Technology,
Ireland, ddevine@ait.ie

- **Dr. M. R. Ehsani**, Isfahan University of Technology, ehsanimr@cc.iut.ac.ir

- **Dr. A. Ershad Langroudi**, Iran Polymer and Petrochemical Institute, A.Ershad@ippi.ac.ir

- **Dr. N. Etesami**, Isfahan University of Technology, netesami@cc.iut.ac.ir

- **Prof. M.H.N. Famili**, Tarbiat Modares University, nfamili@modares.ac.ir

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- **Prof. M. H. Fazelipour**, Yazd University, fazelipour@yazd.ac.ir
- **Dr. M. Ghaffari**, Golestan University, m.ghaffari@gu.ac.ir
- **Prof. S. R. Ghaffarian Anbaran**, Amirkabir University of Technology, sr_ghaffarian@aut.ac.ir
- **Prof. M. H. R. Ghoreishy**, Iran Polymer and Petrochemical Institute, M.H.R.Ghoreishy@ippi.ac.ir
- **Dr. F. Goharpey**, Amirkabir University of Technology, goharpey@aut.ac.ir
- **Dr. N. Golshan Ebrahimi**, Tarbiat Modares University, ebrahimn@modares.ac.ir
- **Dr. A.R. Goudarzi**, Golestan University, a.goudarzi@gu.ac.ir
- **Prof. V. Haddadi Asl**, Amirkabir University of Technology, haddadi@aut.ac.ir
- **Dr. G. Hashemi Motlagh**, University of Tehran, ghmotlagh@ut.ac.ir
- **Dr. A. Heidarinasab**, Islamic Azad University, a.heidarinasab@srbiau.ac.ir
- **Dr. S. S. Hosseini**, Tarbiat Modares University, saeid.hosseini@modares.ac.ir
- **Dr. M. Imani**, Iran Polymer and Petrochemical Institute, M. Imani@ippi.ac.ir
- **Prof. S. H. Jafari Aman Abadi**, University of Tehran, shjafari@ut.ac.ir
- **Prof. Y. Jahani**, Iran Polymer and Petrochemical Institute, Y.Jahani@ippi.ac.ir
- **Dr. A. Jalali Arani**, Amirkabir University of Technology, ajalali@aut.ac.ir
- **Prof. A.A. Katbab**, Amirkabir University of Technology, katbab@aut.ac.ir
- **Dr. J. Khademzadeh Yeganeh**, Qom University of Technology, khademzadeh@qut.ac.ir
- **Prof. H.A. Khonakdar**, Iran Polymer and Petrochemical Institute, h.khonakdar@ippi.ac.ir
- **Prof. M. Kokabi**, Tarbiat Modares University, mehrir@modares.ac.ir
- **Prof. A.R. Mahdavian**, Iran Polymer and Petrochemical Institute, a.mahdavian@ippi.ac.ir
- **Prof. BB. Mamba**, Executive Dean of College of Science Engineering and Technology, University of South Africa, South Africa, mambabb@unisa.ac.za
- **Dr. M. Masoomi**, Isfahan University of Technology, mmasoomi@cc.iut.ac.ir
- **Dr. G. Mirmohammad Sadeghi**, Amirkabir University of Technology, gsadeghi@aut.ac.ir
- **Prof. M.R. Moghbeli**, Iran University of Science and Technology, mr_moghbeli@iust.ac.ir
- **Dr. M. Mortezaei**, Malek Ashtar University of Technology, mhrmorteza@gmail.com
- **Prof. N. Mohammadi**, Amirkabir University of Technology, mohamadi@aut.ac.ir
- **Dr. B. Mokhtarani**, Chemistry and Chemical Engineering Research Center of Iran,

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mokhtaranib@ccerci.ac.ir

- **Prof. J. Morshedain**, Iran Polymer and Petrochemical Institute, J.Morshedain@ippi.ac.ir
- **Prof. H. Mirzadeh**, Amirkabir University of Technology, mirzadeh@aut.ac.ir
- **Prof. H. Nazockdast**, Amirkabir University of Technology, nazdast@aut.ac.ir
- **Prof. S. Nouri Khorasani**, Isfahan University of Technology, saied@cc.iut.ac.ir
- **Prof. E. Nxumalo**, Department of Chemistry, University of South Africa, South Africa, nxumaen@unisa.ac.za
- **Pro. B. Nyström**, Department of chemistry, University of Oslo, Norway, b.o.g.nystrom@kjemi.uio.no
- **Prof. B. Pourabbas**, Sahand University of technology, pourabas@sut.ac.ir
- **Dr. S. Pourmahdian**, Amirkabir University of Technology, pourmahd@aut.ac.ir
- **Prof. M. Rafizadeh**, Amirkabir University of Technology, mehdi@aut.ac.ir
- **Prof. A. Rahimi**, Iran Polymer and Petrochemical Institute, A.rahimi@ippi.ac.ir
- **Prof. A. Ramazani**, Sharif University of Technology, ramazani@sharif.edu
- **Dr. M. Rezaei**, Sahand University of Technology, rezaei@sut.ac.ir
- **Dr. M. Sadeghi**, Isfahan University of Technology, m-sadeghi@cc.iut.ac.ir
- **Prof. K. Shams**, Isfahan University of Technology, k_shams@cc.iut.ac.ir
- **Prof. M. Shariati Niasar**, University of Tehran, mshariat@ut.ac.ir
- **Prof. A. Shojaei**, Sharif University of Technology, Shojaei@sharif.edu
- **Dr. G.H. Sodeifian**, University of Kashan, sodeifian@kashanu.ac.ir
- **Prof. G. J. Summers**, Department of Chemistry, University of South Africa, South Africa, summegj@unisa.ac.za
- **Dr. M. Tavakoli Ardakani**, Yazd University, mtavakoli@yazd.ac.ir
- **Pro. S. Thomas**, School of Chemical Sciences, Mahatma Gandhi University, India, sabuthomas@mgu.ac.in
- **Prof. E. Vasheghani Farahani**, Tarbiat Modares University, evf@modares.ac.ir
- **Dr. P. Zahedi**, University of Tehran, phdzahedi@ut.ac.ir
- **Dr. Edi Syams b. Zainudin**, Department of Mechanical and Manufacturing Engineering, University Putra Malaysia, Malaysia, edisyam@upm.edu.my

11,12 November 2020, TMU, Tehran, Iran

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- **Dr. H. Zilouei**, Isfahan University of Technology, hzilouei@cc.iut.ac.ir
- **Prof. M. J. Zohuriaan Mehr**, Iran Polymer and Petrochemical Institute, M.Zohuriaan@ippi.ac.ir

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Executive Committee

- 1. Ahmad Reza Bahramian, Chair of Executive Committee,**
PhD, Tarbiat Modares University, abahramian@modares.ac.ir
- 2. Golnoosh Abdeali,** Tarbiat Modares University, gl.abdeali@gmail.com
- 3. Mohammad Alimardani,** PhD, Tarbiat Modares University, m.alimardani@modares.ac.ir
- 4. Farzaneh Arabpour Raghbadi,** PhD, Tarbiat Modares University, arabpour@modares.ac.ir
- 5. Reza Asadi,** Tarbiat Modares University, r-asadi@modares.ac.ir
- 6. Zahra Dashtizadeh,** PhD, Tarbiat Modares University, z.dashtizadeh@modares.ac.ir
- 7. Mohammad Fakhroleslam,** PhD, Tarbiat Modares University, fakhroleslam@modares.ac.ir
- 8. Somayeh Ghasemirad,** PhD, Tarbiat Modares University, ghasemirad@modares.ac.ir
- 9. Fatemeh Gharibi,** Tarbiat Modares University, fatemeh.gharibi@modares.ac.ir
- 10. Jafar Goudarzi,** Tarbiat Modares University, Jafar.Goudarzi@modares.ac.ir
- 11. Arezoo Mirghasemi,** Iran Polymer Society, mirghasemi.a@gmail.com
- 12. Hakimeh Mohammadzad,** Iran Poymer society, infoipsts@gmail.com
- 13. Sobhan Shahsavari,** Tarbiat Modares University, Shahsavari.sobhan@yahoo.com
- 14. Alireza Sharif, PhD,** Tarbiat Modares University, asharif@modares.ac.ir
- 15. Zahra Farhang,** Tarbiat Modares University, Zahra.farhang@modares.ac.ir

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Organizers

- **Tarbiat Modares University**
- **Iran Polymer Society**

Sponsors

- **Iran Polymer and Petrochemical Institute**
- **Iranian Association of Polymer and Chemical Engineers**
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Abdollahi, M.

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Famili, M. H. N.

Ghasemirad, S.

Golshan Ebrahimi, N.

Kokabi, M.

Razzaghi-Kashani, M.

Sharif, A.

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HALL A	<i>Application of Polymers in Management of Natural Disasters; Green, Sustainable, Biopolymers, and Recycling; Adhesives, Paints, and Coatings;</i>
HALL B	<i>Polymer Rheology, Processing and Technology; Elastomers and Compounding Technologies;</i>
HALL C	<i>Polymer Nanocomposites, Blends and Alloys;</i>
HALL D	<i>Simulation and Modeling of Polymeric Systems Nano, Smart, and Electronic Polymer System;</i>
HALL E	<i>Polymer Synthesis and Polymerization;</i>
HALL F	<i>Posters Presentation;</i>

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Keynote Lectures

11 November 2020									
Time	8:30-9:15	9:15-10:00	10:00-10:40	10:45-12:15	13:30-14:10	14:15-15:45	15:45-16:25	16:30-17:30	17:30-18:10
HALL A	Opening Ceremony	Sabu Thomas	Vasheghani-Farahani	3 Lectures	Hamid Mirzadeh	3 Lectures	Masoud Jamshidi	2 Lectures	Alireza Sharif
HALL B			Osamu Urakawa	3 Lectures	Volker Altstadt	3 Lectures	Naser Mohammadi	2 Lectures	Reza Foudazi
HALL C			M. H. N. Famili	3 Lectures	Mohammadreza Nofar	3 Lectures	2 Lectures	Sadhan Jana	
HALL D			Mir Hamidreza Ghoraiishi	3 Lectures	Yanwei Wang	3 Lectures	Mehdi Rafizadeh	2 Lectures	Fateme Abbasi
HALL E			Mehdi Nekoumanesh	3 Lectures	Ahmad Ramezani	3 Lectures	2 Lectures	Chul B. Park	
HALL F	Poster Presentations								

12 November 2020								
Time	8:30-9:10	9:15-10:45	10:45-11:25	11:30-12:30	13:30-14:10	14:15-15:45	15:45-16:25	16:25-17:00
HALL A	Zahra Ranjbae	3 Lectures	Ali Salimi	2 Lectures	Mohsen Mohseni	3 Lectures	Manfred Wilhelm	Closing Ceremony
HALL B	Kenji Urayama	3 Lectures	Mehdi Razzaghi-Kashani	2 Lectures	Anke Blume	3 Lectures		
HALL C	Karim Razavi	3 Lectures	Hossein Nazockdast	2 Lectures	Ahmadreza Bahramian	3 Lectures		
HALL D	Reza Ghaffarian	3 Lectures	Farhang Abbasi	2 Lectures	Bo Nystrom	3 Lectures		
HALL E	Sujay Chattopadhyay	3 Lectures	Behnam Ghalei	2 Lectures	Mahdi Abdollahi	3 Lectures		
HALL F	Poster Presentations							

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Plenary Lecturers

Prof. Sabu Thomas
Mahatma Gandhi University, India

Prof. Manfred Wilhelm
Karlsruher Institut für Technologie (KIT), Germany

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Wednesday
11 November 2020

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Wednesday, November 11, Hall A, 9:15-10:00

Plenary Lecturer: Sabu Thomas

Engineering at the Nanoscale: A Strategy for Developing High Performance Functional Polymer Nanocomposites

Wednesday, November 11, Hall A, 10:00-10:40

Keynote Lecturer: Ebrahim Vasheghani-Farahani

Wednesday, November 11, Hall A, 13:30-14:10

Keynote Lecturer: Hamid Mirzadeh

Tissue Engineering and Biomaterials Iranian Bunch (TEBIB): Recent Achievements

Wednesday, November 11, Hall A, 15:45-16:25

Keynote Lecturer: Masoud Jamshidi

Polymeric Fibers as Reinforcement of Cement-based Materials under Flexural and Tensile Loads

Wednesday, November 11, Hall A, 17:30-18:10

Keynote Lecturer: Alireza Sharif

Wednesday, November 11, Hall B, 10:00-10:40

Keynote Lecturer: Osamu Urakawa

Thermal and Rheological Behavior of Associative Polymers with Hydrogen Bonding and Ionic Interactions

Wednesday, November 11, Hall B, 13:30-14:10

Keynote Lecturer: Volker Altstädt

Summary of methods to improve the foamability of polylactide

Wednesday, November 11, Hall B, 15:45-16:25

Keynote Lecturer: Naser Mohammadi

How Does Microstructural Design Affect the Dynamics and Rheology of Segmented Polyurethanes?

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Wednesday, November 11, Hall B, 17:00-17:40

Keynote Lecturer: Reza Foudazi

Rheology and Chemorheology of Lyotropic Liquid Crystal Templates

Wednesday, November 11, Hall C, 10:00-10:40

Keynote Lecturer: Mohammad Hossein Navid Famili

Wednesday, November 11, Hall C, 13:30-14:10

Keynote Lecturer: Mohammadreza Nofar

Development of PLA/TPU blends: Effect of TPU Soft Segment Type and Chain Extender on Mechanical Properties

Wednesday, November 11, Hall C, 17:00-17:40

Keynote Lecturer: Sadhan C. Jana

Manufacturing of Netshape Articles from Polymeric Aerogels

Wednesday, November 11, Hall D, 10:00-10:40

Keynote Lecturer: Mir Hamidreza Ghoraishi

Advanced Material Models for Nonlinear Viscoelastic Behaviors of Cured Rubber Compounds

Wednesday, November 11, Hall D, 13:30-14:10

Keynote Lecturer: Yanwei Wang

Polymer Physics and Modeling of Polycarboxylate-based Superplasticizers in Concrete

Wednesday, November 11, Hall D, 15:45-16:25

Keynote Lecturer: Mehdi Rafizadeh

Wednesday, November 11, Hall D, 17:30-18:10

Invited Lecturer: Fatemeh Abbasi

Application of Machine Learning Concepts for Classification of Various Polymeric Systems

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Wednesday, November 11, Hall E, 10:00-10:40

Keynote Lecturer: Mehdi Nekoumanesh

Wednesday, November 11, Hall E, 13:30-14:10

Keynote Lecturer: Ahmad Ramezani

Wednesday, November 11, Hall E, 17:00-17:40

Keynote Lecturer: Chul B. Park

Structurally Re-engineered Hybrid Silica Aerogels

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Wednesday, 11 November, Hall A

Opening Ceremony

8:30-9:15

09:15-10:00 Plenary Presenter: Sabu Thomas
Mahatma Gandhi University, India

Engineering at the Nanoscale: A Strategy for Developing High Performance
Functional Polymer Nanocomposites

*Application of Polymers in Management of Natural Disasters
Green, Sustainable, Biopolymers, and Recycling*

Chairpersons: Sharif, A.; Bahramian, A. R.

10:00-10:40 Keynote Lecturer: Vasheghani-Farahani, E.
Tarbiat Modares University, Iran

Title?

Code	Time	Title
A-10-1592-1	10:45-11:15	Saeed Khojasteh Khosro, Ali Shalbafan, Heiko Thoemen; Improving bio-based poly(lactic acid) properties using polycarbonate
A-10-1645-2	11:15-11:45	Erfan rezvani ghomi, Lakshminarayanan Rajamani, Rasoul Esmacely Neisiany, Fatemeh Khosravi, mohamadreza shakiba, Seeram Ramakrishna, Aligned PCL/Gelatin fiber mats for wound dressing application
A-10-1547-1	11:45-12:15	Shahin Jabari, Saeed Beigi-Boroujeni, Milad Jafari-Nodoushan, Mehrnoosh Ebrahimibagha, Dariush Ebrahimibagha, Emulsion Electrospun Fiber Mats of PCL and Scrophularia Striata for Wound Dressing Applications

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Wednesday, 11 November, Hall A

Application of Polymers in Management of Natural Disasters

Chairpersons: Sharif, A.; Bahramian, A. R.

13:30-14:10 Keynote Lecturer: Hamid Mirzadeh

Amirkabir University of Technology, Iran

*Tissue Engineering and Biomaterials Iranian Bunch (TEBIB):
Recent Achievements*

A-10-1804-1	14:15-14:45	Amir Abbas Abedini, Gholamreza Pircheraghi, Effect of thyme honey incorporation on properties of alginate-quince seed gum films
A-10-1678-1	14:45-15:15	Aysan Baharian Khoshkhoo, Mina Habibizadeh, Sina Andalib, Nasser Nikfarjam, Kobra Rostamizadeh, In vitro and in vivo study of Dexamethasone sodium phosphate loaded PCL/Chitosan nanofiber mats as wound healing dress
A-10-1740-1	15:15-15:45	Mahnaz Hasanpur, Davoud Afshar, Nasser Nikfarjam, Antibacterial Cotton Fabrics Grafted by Imidazolium-Type Ionic Liquid Monomers

15:45-16:25 Keynote Lecturer: Masoud Jamshidi

Iran University of Science and Technology, Iran

Polymeric Fibers as Reinforcement of Cement-based Materials under Flexural and Tensile Loads

A-10-1801-1	16:25-16:55	Fereidoon Mohammadi, Mohammad Bagher Karimi, Effect of deep eutectic solvent (DES) hydrogen bond acceptor (HBA) on the cluster size and ionic conductivity of Nafion membrane
A-10-1820-1	16:55-17:25	Nadereh Golshan Ebrahimi, Mohammad Shahrousvand, The effect of hydroxypropyl cellulose presence on the morphology and physical/mechanical properties of polycaprolactone beaded nanofibers as potential scaffolds in tissue engineering

17:30-18:10 Keynote Lecturer: Alireza Sharif

Tarbiat Modares University, Iran

Title?

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Wednesday, 11 November, Hall B

Polymer Rheology, Processing and Technology

Chairperson: Golshan Ebrahimi, N.

10:00-10:40 Keynote Lecturer: Osamu Urakawa

Osaka University, Japan

Rheological Behavior of Associative Supramolecular Polymers

Code	Time	Title
A-10-1619-1	10:45-11:15	Sajad Rasouli, Mohammad Reza Moghbeli, Seyed Majid Hashemianzadeh, Aggregation of Poly(N-isopropylacrylamide) (PNIPAm) in Water with Temperature: Dissipative Particle Dynamics (DPD) Study
A-10-1674-1	11:15-11:45	Marzie Alidadi-Shamsabadi, Shirin Shokoohi, Investigation of the Compatibility of PS/EPDM/EPDM-g-GMA/PA6 Ternary Blend by Evaluating the Rheological Behavior
A-10-1588-1	11:45-12:15	Zhi Cao, Declan Devine, Manfred Penning, Noel Gately, Rheological properties of different type of Shellac

Wednesday, 11 November, Hall B

Chairperson: Golshan Ebrahimi, N.

13:30-14:10 Keynote Lecturer: Volker Altstadt

University of Bayreuth, Germany

Summary of methods to improve the foamability of polylactide

A-10-1566-1	14:15-14:45	Nastaran Mosleh, Soheil Dariushi, Masoud Esfandeh, Investigation of Flexural Properties of 3D Printed Continuous Fiber- Reinforced Composites
A-10-1708-1	14:45-15:15	Fatemeh Salmani, Maryam zajjaghi, tohid abdolahzadeh, shervin ahmadi, Chain branching of poly propylene toward high melt strength pp during reactive melt blending
A-10-1645-1	15:15-15:45	seyed reza nabavi, mohamadreza shakiba, erfaneh rezvani ghomi, The effect of change in the electrospinning temperature on porosity and morphology of polyacrylonitrile membrane as a key parameter for oil/water separation

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Wednesday, 11 November, Hall B

Chairperson: Golshan Ebrahimi, N.

15:45-16:25 Keynote Lecturer: Naser Mohammadi

Amirkabir University of Technology, Iran

How Does Microstructural Design Affect the Dynamics and Rheology of Segmented Polyurethanes?

A-10-149-1	16:25-16:55	Ali Kariman Moghaddam, Ahmad Ramazani SaadatAbadi, Application of Generalized Bracket Formalism to Model the Rheology of a System Containing Bentonite and Polymer Solution
A-10-1341-2	16:55-17:25	Adel Soleimani, Reza Esmkhani, Farhid Farahmand, Jalil Morshedian, Preparation and antibacterial properties of Unplasticized polyvinyl chloride

17:30-18:10 Keynote Lecturer: Reza Foudazi

New Mexico State University, USA

Rheology and Chemorheology of Lyotropic Liquid Crystal Templates

Wednesday, 11 November, Hall C

Polymer Nanocomposites, Blends and Alloys

Chairperson: Kokabi, M.

10:00-10:40 Keynote Lecturer: Mohammad Hossein Navid Famili

Tarbiat Modares University, Iran

Title?

Code	Time	Title
A-10-1578-1	10:45-11:15	Milad Alizadeh Sooreh, Milad Saadat Tagharoodi, Mohammad Khabiri, mahmoud Razavizadeh, Mohammad Reza Pourhossaini, Thermoplastic Polyurethane/Terpolyamide Blends: Preparation and Miscibility
A-10-1625-1	11:15-11:45	Mehi Haji Abdolrasouli, Ebrahim Jalali Dill, Jamshid Khorshidi Mal Ahmadi, Thermal Annealing behavior of Polylactic acid/Polycaprolacton Bio based co-continuous blend
A-10-86-1	11:45-12:15	seifollah jamalpour, maral ghahramani, seyed reza ghaffarian, mehran javanbakht, Effect of organic-inorganic hybrid nanoparticles for improving the electrochemical performace of PVDF as a gel polymer electolyte for lithium ion batteries

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Wednesday, 11 November, Hall C

Chairperson: Kokabi, M.

13:30-14:10 Keynote Lecturer: Mohammad Reza Nofar

Istanbul Technical University, Turkey

Development of PLA/TPU blends: Effect of TPU Soft Segment Type and Chain Extender on Mechanical Properties

A-10-1705-1	14:15-14:45	Maryam Baniamer, Abdolreza Aroujalian Mashhadi, Shahram Sharifnia, CO2 Separation and Photoconversion using PEBAX/TiO2 Blended in Polyethersulfone Photocatalytic Membrane
A-10-1696-2	14:45-15:15	Hossein Hosseini, Synthesis some of conducting and magnetic nanostructures materials based polypyrrole nanocomposite as multiband microwave absorber
A-10-1036-2	15:15-15:45	Mohadeseh Montahayie., Kosar Arab, Mahdi Tohidian, Organically modified multi-walled carbon nanotubes and chitosan nanocomposites as polyelectrolyte membranes for fuel cell applications

Wednesday, 11 November, Hall C

Chairperson: Kokabi, M.

A-10-1635-1	15:45-16:15	Nafise Babaei, Omid Moghaddam, Sag resistance improvement of water borne Polyurethane resin by Nano fumed silica for coating application
A-10-1808-1	16:15-16:45	Yasaman Alaei, Experimental Studies on Modified Flame Retardant PC/ABS Blends

16:45-17:25 Keynote Lecturer: Sadhan C. Jana

University of Akron, USA

Manufacturing of Netshape Articles from Polymeric Aerogels

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Wednesday, 11 November, Hall D

Simulation and Modeling of Polymeric Systems

Chairperson: Famili, M.H.N.

10:00-10:40 Keynote Lecturer: Mir Hamidreza Ghoraishi

Iran Polymer and Petrochemical Institute, Iran

Advanced Material Models for Nonlinear Viscoelastic Behaviors of Cured Rubber Compounds

A-10-1667-1	10:45-11:15	Najmeh Najmoddin, Finite element modeling and experimental evaluation of the mechanical properties of 3D printed polycaprolactone-hydroxyapatite composite scaffolds
A-10-1597-2	11:15-11:45	Hassan Shooli, Shahryar Malekie, Seyed Mohammad Amin Hosseini, Preliminary studies on nanocomposites containing PA6/WO3 as X-ray and gamma-ray shields using the Monte Carlo method
A-10-1814-1	11:45-12:15	Ali Armand, Zahra Mansourpour, Simulation of non-newtonian molten polymer fluid flow by Lattice Boltzmann Method

Wednesday, 11 November, Hall D

Chairperson: Famili, M.H.N.

13:30-14:10 Keynote Lecturer Yanwei Wang

Nazarbayev University, Kazakhstan

Polymer Physics and Modeling of Polycarboxylate-based Superplasticizers in Concrete

A-10-1635-2	14:15-14:45	Omid Moghaddam, Azizollah Nodehi, Mohammad Atai, A Mathematical Approach to Investigate Polymer Composition in Terpolymerization of Carboxylated Acrylonitrile Butadiene Rubber
A-10-1834-1	14:45-15:15	Mohammad Abolghasemzadeh, Hossein Mohammadi, Youness Alizadeh, Fracture Assessment of Polymethyl-methacrylate (PMMA) Specimens Weakened By Sharp Notches
A-10-1632-1	15:15-15:45	Niloofer parhizkar, Numerical Study on The Effect of The Surface Tension And Density on The Pinch-Off Behavior of The Droplet in Drop Formation Process

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Wednesday, 11 November, Hall D

Chairperson: Famili, M.H.N.

15:45-16:25 Keynote Lecturer: Mehdi Rafizadeh

Amirkabir University of Technology, Iran

Title?

A-10-1553-1	16:25-16:55	Mohammad Hossein Karami, Mohammad Reza Kalae, Saeedeh Mazinani, V. García-Martínez, Renate Maria Ramos Wellen, Gassan Hodaifa, A.M. Shanmugaraj, Kibum Kim, Isoconversional Model Approach and Cure Kinetics Of Epoxy/ NBR Nanocomposites
A-10-1809-2	16:55-17:25	Babak Valipour Goodarzi, Ahmadreza Bahramian, Comparing Theoretical Modeling and Machine Learning Approach for Predicting Thermal Conduction of Novolac Aerogels

17:30-18:00 Invited Lecturer: Fatemeh Abbasi

University of Guelph, Canada

Application of Machine Learning Concepts for Classification of Various Polymeric Systems

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Wednesday, 11 November, Hall E

Polymer Synthesis and Polymerization

Chairperson: Abdollahi, M.

10:00-10:40 Keynote Lecturer: Mehdi Nekoumanesh

Iran Polymer and Petrochemical Institute, Iran

Title?

Code	Time	Title
A-10-338-1	10:45-11:15	Marzieh Golshan, Ehsan Rostami-Tapeh-Esmail, Mehdi Salami-Kalajahi, . Hossein Roghani-Mamaqani, Fluorescence properties of perylene-based poly(amidoamine) dendrimer
A-10-1155-4	11:15-11:45	Ahad Hanifpour, Naeimeh Bahri-Laleh, Mehdi Nekoomanesh-Haghighi, Coordinative Chain Transfer Polymerization of 1-Decene in the Presence of A Ti-Based Diamine Bis(phenolate) Catalyst: A Green approach to Produce Low Viscosity PAOs
A-10-1723-1	11:45-12:15	Parisa Salimi, Abdolreza Aroujalian, Davood Iranshahi, Surface Zwitterionization of Polyethersulfone Membrane via Corona Air Plasma for Separation of Oil-in-Water emulsion

Wednesday, 11 November, Hall E

Chairperson: Abdollahi, M.

13:30-14:10 Keynote Lecturer: Ahmad Ramezani

Sharif University of Technology, Iran

Title?

A-10-1701-1	14:15-14:45	Parisa Alamdari, Farhad Sharif, Saeedeh mazinani, German Sastre, Hermenegildo Garcia, How Vinyl Monomers Interact with Point Defects of Graphene: A Systematic DFT Study
A-10-535-1	14:45-15:15	Seyyedeh Mahboubeh Razavi, Mahdi Abdollahi, Synthesis and Characterization of Carboxyl-Terminated Telechelic Polystyrene by Reverse Iodine Transfer Polymerization and Postmodification
A-10-1831-1	15:15-15:45	safieh mosavi madani, mohammad reza Pourhossaini, mahmmod razavizadeh, morteza ahmadi, mohammad Khabiri, milad Saadat Tagharoodi1, Evaluation the performance of bisphenol A Novolac resin as a carbon fiber surface modifier

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Wednesday, 11 November, Hall E

Chairperson: Abdollahi, M.

A-10-1620-1	15:45-16:15	Reza Darvishi, Mohammad Javad Bijhanmanesh, Ali Moshkriz, Influences of the addition methods of intercalated Mg-Al-hydroxide layered double hydroxide in suspension polymerization of vinyl chloride on poly(vinyl chloride) particles properties
A-10-1703-2	16:15-16:45	zahra mortazavi, Synthesis and Characterization of Organic-Inorganic Hybrid Poly Methyl Methacrylate (PMMA)/ Silica Nanocomposites via two Effective Initiators

16:45-17:25 Keynote Lecturer: Chul B. Park

University of Toronto, Canada

Structurally Re-engineered Hybrid Silica Aerogels

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Thursday
12 November

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Thursday, November 12 Hall A, 8:30-9:10

Keynote Lecturer: Zahra Ranjbar

Antiviral Coatings

Thursday, November 12 Hall A, 10:40-11:20

Keynote Lecturer: Ali Salimi

The Future Opportunities for Biobased Adhesives and Coatings

Thursday, November 12 Hall A, 13:30-14:10

Keynote Lecturer: Mohsen Mohseni

Thursday, November 12 Hall A, 15:55-16:35

Plenary Lecturer: Manfred Wilhelm

New Combined Methods to Characterize Polymer Composition and Rheological Properties: SEC-NMR and Rheo-NMR

Thursday, November 12 Hall B, 8:30-9:10

Keynote Lecturer: Kenji Urayama

Dynamic Crack in Filler-Reinforced Elastomers

Thursday, November 12 Hall B, 10:40-11:20

Keynote Lecturer: Mehdi Razzaghi-Kashani

Customized Dielectric Elastomer Actuators: PDMS Composites

Thursday, November 12 Hall B, 13:30-14:10

Keynote Lecturer: Anke Blume

Micro- and Macro-dispersion of silica filled tread compounds

Thursday, November 12 Hall C, 8:30-9:10

Keynote Lecturer: Mir Karim Razavi Aghjeh

Structure Properties Relationship in Polypropylene Based Multicomponent Systems

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Thursday, November 12 Hall C, 10:40-11:20

Keynote Lecturer: Hossein Nazockdast

Thursday, November 12 Hall C, 13:30-14:10

Keynote Lecturer: Ahmad Reza Bahramian

Thursday, November 12 Hall D, 8:30-9:10

Keynote Lecturer: Reza Ghaffarian

Thursday, November 12 Hall D, 10:40-11:20

Keynote Lecturer: Farhang Abbasi

Thursday, November 12 Hall D, 13:30-14:10

Keynote Lecturer: Bo Nyström

Self-Assembly of Amphiphilic Copolymers in Aqueous Solution Studied by Scattering Methods

Thursday, November 12 Hall E, 8:30-9:10

Keynote Lecturer: Sujay Chattopadhyay

Thursday, November 12 Hall E, 10:40-11:20

Keynote Lecturer: Behnam Ghalei

Polymer Membranes for Energy and Environmental Applications: From Material Chemistry to Engineering Challenges

Thursday, November 12 Hall E, 13:30-14:10

Keynote Lecturer: Mahdi Abdolahi

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Thursday, November 12, Hall A

*Application of Polymers in Management of Natutral Disasters
Green, Sustainable, Biopolymers, and Recycling
Adhesives, Paints, and Coatings*

Chairperson: Ghasemirad, S.

8:30-9:10 Keynote Lecturer: Zahra Ranjbar

Institute for Color Science and Technology, Iran.

Antiviral Coatings

Code	Time	Title
A-10-405-1	9:10-9:40	Hossein Yari, Saeed Amrollahi, Enhanced weathering durability of Epoxy silicone coating with Graphene oxide Nanoplatelets modified with conducting polymers
A-10-1807-1	9:40-10:10	Mohammad Mir, Somayeh Ghasemirad, Gemini Surfactant: A Miracle for Preparation of Highly Stable Polymer Emulsion
A-10-338-2	10:10-10:40	Erisa Ferasat, Marzieh Golshan, Mehdi Salami-Kalajahi, Hossein Roghani-Mamaqani, Synthesis of fluorescent hybrid coumarin/perylene pigment

Thursday, November 12, Hall A

Chairperson: Ghasemirad, S.

10:40-11:20 Keynote Lecturer: Ali Salimi

Iran Polymer and Petrochemical Institute, Iran

The Future Opportunities for Biobased Adhesives and Coatings

Code	Time	Title
A-10-1381-2	11:20-11:50	Ali Ahmadi-Dehnoei, Somayeh Ghasemirad, Preparation of Nanocomposite Pressure-Sensitive Adhesive Using Polysilsesquioxane-Acrylic Core-Shell Latex Nanoparticles
A-10-1799-1	11:50-12:20	Bahare Ghods, Farnaz Taherian, Preparation of solvent-based polyurethane adhesive for flock application

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Thursday, November 12, Hall A

Chairperson: Ghasemirad, S.

13:30-14:10 Keynote Lecturer: Mohsen Mohseni

Amirkabir University of Technology, Iran

Title?

Code	Time	Title
A-10-89-1	14:10-14:40	Ahad Hanifpour, Naeimeh Bahri-Laleh, Mehdi Nekoomanesh, Methacrylate functionalized POSS as an efficient adhesion promoter in olefin-based adhesives
A-10-1618-1	14:40-15:10	Ali Ebaidirad, Dr Mohammad Hossein Beheshty, The Effect of Initiator on Structural Acrylic Adhesives Properties
A-10-1155-6	15:10-15:40	Ahad Hanifpour, Naeimeh Bahri-Laleh, Mehdi Nekoomanesh-Haghighi, Single-phase photo-cross-linkable adhesive synthesized from methacrylic acid-grafted on1-decene/9-decene-1-ol cooligomer

15:45-16:25 Plenary Lecturer: Prof. Manfred Wilhelm

Karlsruher Institut für Technologie (KIT), Germany

New Combined Methods to Characterize Polymer Composition and Rheological Properties: SEC-NMR and Rheo-NMR

Closing Ceremony

16:25-17:00

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Thursday, November 12, Hall B

Elastomers and Compounding Technologies

Chairpersons: Razzaghi-Kashani, M.; Alimardani, M.

8:30-9:10 Keynote Lecturer: Kenji Urayama

Kyoto Institute of Technology, Japan

Dynamic Crack in Filler-Reinforced Elastomers

Code	Time	Title
A-10-1603-1	9:10-9:40	Iman Abbasi Shahdehi, Mohammad Alimardani, Mehdi Razzaghi-Kashani, Hossein Roshanaei, Mahan Ghorashi, Investigating the impact of aromatic content of process oils on the frictional properties of tire tread compound
A-10-1842-1	9:40-10:10	Nafise Torbati-Fard, Seyed Mostaffa Hosseini, Mehdi Razzaghi-Kashani, Mir Hamid Reza Ghoreishy, Effect of Silica/Rubber Interface on Tribological Behavior of Filled Styrene-butadiene Rubber Vulcanizates
A-10-1798-1	10:10-10:40	Alireza Baniasad, A Novel Strain Sweep Method to Compare Energy Loss in Tread Compounds using Tripsometer

Thursday, November 12, Hall B

Chairperson: Alimardani, M.

10:40-11:20 Keynote Lecturer: Mehdi Razzaghi-Kashani

Tarbiat Modares University, Iran

Title?

Code	Time	Title
A-10-26-2	11:20-11:50	Fatemeh Khodkar, An Applicable Method to Determine Unsaturation Levels in Butyl Rubber
A-10-1152-2	11:50-12:20	Hasti Bizhani, Ali Asghar Katbab, Mahshid Maroufkhani, Raquel Verdejo, Electrically Conductive Nanocomposite Based on Ethylene-Propylene-Diene Monomer/Multiwall Carbon Nanotubes as a High-Frequency Electromagnetic Wave Absorber

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Thursday, November 12, Hall B

Chairpersons: Razzaghi-Kashani, M.; Alimardani, M.

13:30-14:10 Keynote Lecturer: Anke Blume

University of Twente, The Netherlands

Micro- und Macro-dispersion of silica filled tread compounds

Code	Time	Title
A-10-124-1	14:10-14:40	Mehdi Shiva, Morteza Golmohammadi, Fatemeh Noruzi, Mohammad Fekri, Effects of Silica on Rubber to Brass-Plated Steel Cord Adhesion
A-10-1750-1	14:40-15:10	Mohammad Raef, Leila Noein, mehdi Razzaghi-Kashani, Engineering the graphene surface chemistry for gas barrier performance of styrene butadiene rubber composites
A-10-1691-1	15:10-15:40	Mehdi Razzaghi-Kashani, Mana Nabavian-Kalat, Effect of graphene platelets on the dispersion and dynamic-mechanical properties of silica-filled styrene butadiene rubber

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Thursday, November 12, Hall C

Polymer Nanocomposites, Blends, and Alloys

Chairperson: Kokabi, M.

8:30-9:10 Keynote Lecturer: Mir Karim Razavi Aghjeh

Sahand University of Technology, Iran

Structure properties relationship in polypropylene based multicomponent systems

Code	Time	Title
A-10-1788-1	9:10-9:40	Mohammadsoroush Abzan, shervin ahmadi, ahmad arefazar, Investigation of GO Network Formation in N6/PC Blend: Scrutinizing Thermal Degradation and Rheological Behavior
A-10-1622-1	9:40-10:10	Faezeh Razavi Zadeh, Kimiya Rahmani, Mohsen Shahrousvand, Synthesis of poly (ϵ-caprolactone)/crosslinked poly (hydroxyethyl methacrylate) for tissue engineering scaffolds
A-10-1833-1	10:10-10:40	Mohammad Amin Abbas-zadeh, Amir hesam Arabsorkhi Mishabi, Dr Amir Ershad-Langroudi, Investigation of thermal stability of polyurethane/silica aerogel nanocomposite foams

Thursday, November 12, Hall C

Chairperson: Kokabi, M.

10:40-11:20 Keynote Lecturer: Hossein Nazockdast

AmirKabir University of Technology, Iran

Title?

Code	Time	Title
A-10-1789-2	11:20-11:50	Alireza Aminoroaya, Saied Nouri Khorasani, Rouhollah Bagheri, Zahra Talebi, Rasoul Esmaeely Neisiany, Synthesis and surface modification of mesoporous silica aerogel
A-10-1796-1	11:50-12:20	Mohammad Afzali, Investigation the effect of a surface-treated nanoclay on corrosion properties of a polyisobutylene self-healing composite coating

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Thursday, November 12, Hall C

Chairperson: Kokabi, M.

13:30-14:10 Keynote Lecturer: Ahmad Reza Bahramian

Tarbiat Modares University, Iran

Title?

Code	Time	Title
A-10-1851-1	14:10-14:40	Amirhossein Mahtabani, Ilkka Rytöluoto, Rafal Anyszka, Eetta Saarimäki, Xiaozhen He, Kari Lahti, Mika Paaanen, Wilma Dierkes, Anke Blume, How Does Silica Functionalization Affect Charge Trapping and Transport In Nanodielectrics Under DC?
A-10-1749-1	14:40-15:10	S.B Saleh Bordbar, A.S Ali Salimi, M.K Majid Karimi, A Study in Dispersion of Glycidyl POSS-modified silica nanoparticles in epoxy
A-10-1702-1	15:10-15:40	Shima Zadegankhajeh, Fatemeh Gharibi, Alireza Sharif, Asghar Habibnejad Korayem, Improved stability of graphene oxide nanosheets in cementitious media by grafting the nanosheets with modified chitosan

Thursday, November 12, Hall D

Nano, Smart, and Electronic Polymer System

Chairperson: Arabpour, F.

8:30-9:10 Keynote Lecturer: Reza Ghaffarian

Amirkabir University of Technology, Iran

Title?

Code	Time	Title
A-10-1583-1	9:10-9:40	Mostafa Rezaei, Elahe Mehrbakhsh, Synthesis and characterization of thermoplastic polyurethane with low stress relaxation for orthodontic chains application
A-10-1590-1	9:40-10:10	Golara Kafili, Elnaz Tamjid, Hasan Niknejad, Abdolreza Simchi, Processing of a temperature responsive human amniotic membrane-derived hydrogel for soft tissue engineering by 3D bioprinting
A-10-1608-1	10:10-10:40	Maryam Bayat, carlos Alemán, Francesc Estrany, Investigation of the electrochemical behavior of electrochromic polypyrrole film doped with dye molecule against environmental conditions

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Thursday, November 12, Hall D

Chairperson: Arabpour, F.

10:40-11:20 Keynote Lecturer: Farhang Abbasi

Sahand University of Technology, Iran

Title?

Code	Time	Title
A-10-1661-1	11:20-11:50	Akbar Shojaei, Stretchable and electrical conductive acrylic acid hydrogel as a strain sensor
A-10-1781-1	11:50-12:20	Sara Taherinezhad, Mehdi Entezam, Kamiyar Zomorodian Morphology and Mechanical Properties of Zataria Multiflora-loaded Mats Based on Poly(vinylidene fluoride) Electrospun Nanofibers

Thursday, November 12, Hall D

Chairperson: Arabpour, F.

13:30-14:10 Keynote Lecturer: Bo Nyström

University of Oslo, Norway

Self-Assembly of Amphiphilic Copolymers in Aqueous Solution Studied by Scattering Methods

Code	Time	Title
A-10-1042-2	14:10-14:40	Samane Akhlaghpasand, Naser Mohammadi, Rheological characterization of hyperentanglement and its effects on the crystallinity and intrinsic toughness of poly (vinyl alcohol)
A-10-1806-1	14:40-15:10	Mahdi Abdollahi, Ali dinari, Fabrication of size tunable vehicles via combination of lignin- based graft copolymer for directed drug delivery approach
A-10-1263-3	15:10-15:40	Yasaman Nazani, Shadab Bagheri, Hamid Mirzadeh, Preparation of Zein-Curcumin Nanoparticles for the treatment of Skin Wounds

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Thursday, November 12, Hall E

Polymer Synthesis and Polymerization

Chairperson: Abdollahi, M.

8:30-9:10 Keynote Lecturer: Sujay Chattopadhyay

Indian Institute of Technology Roorkee, India

Selective Recovery of Organic Acids from Their Mixtures using Novel Functionalized Anion-Exchange Membranes

Code	Time	Title
A-10-1584-1	9:15-9:45	Kamran Foroutani, Seyed Morteza Ghasemi, Behzad Aourabbas, Highly Orderd Isoporous Membranes Prepared from Strongly Segregated Diblock Copolymer via SNIPS
A-10-236-2	9:45-10:15	Rajabali Ebrahimi, Nima Rahmani, Sonochemical synthesis and swelling of Fe₃O₄ nanocomposite hydrogel
A-10-1155-5	10:15-10:45	Ahad Hanifpour, Naeimeh Bahri-Laleh, Mehdi Nekoomanesh-Haghighi, 1-Decene Oligomerization by New Complexes Bearing [ONNO]-Type Salan Ligands: Effect of Ligand Structure

Thursday, November 12, Hall E

Polymer Synthesis and Polymerization

Chairperson: Abdollahi, M.

10:45-11:25 Keynote Lecturer: Behnam Ghalei

Kyoto University, Japan

Polymer Membranes for Energy and Environmental Applications: From Material Chemistry to Engineering Challenges

A-10-1641-2	11:30-12:00	Mohammad Hossein Jandaghian, Abdol Hannan Sepahi, Reza Rashedi, Kamal Afzali, Ehsan Nikzinat, Maryam Masouri, Razieh Davand, The Controlling Role of Tempering Time During the Synthesis Procedure of Mg(OEt)₂-Based Ziegler-Natta Catalyst
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A-10-1672-1

12:00-12:30

Fereshteh Karkhaneh yousefi, Ali Jannesari, Shahla Pazokifard, **Terpolymerization of triisopropylsilyl acrylate, methyl methacrylate and n-butyl acrylate: kinetic studies**

Thursday, November 12, Hall E

Polymer Synthesis and Polymerization

Chairperson: Sharif, A.

13:30-14:10 Keynote Lecturer: Mahdi Abdollahi

Tarbiat Modares University, Iran

Title?

A-10-1765-2

14:15-14:45

Amirhossein Tavakoli, Hamed Aghababaei, Ahmad Ramazani S.A., **Novel and facile water-based emulsion copolymerization of styrene and methyl-acrylate and investigation of theraml and rheological behaviours**

A-10-104-5

14:45-15:15

Mehdi Rafizadeh, Seyed Ali Gatzmirian, **Preparation and Characterization of Sulfonated Poly Butylene (Succinate-co-Fumarate)**

A-10-1737-1

15:15-15:45

Rezvan Balilvand, Mohammad Atai, Azizollah Nodehi, **Solution photopolymerization of acrylic/itaconic acid: effect of different transfer agents on molecular weight**

15:45-16:25 Plenary Lecturer: Prof. Manfred Wilhelm

Karlsruher Institut für Technologie (KIT), Germany

New Combined Methods to Characterize Polymer Composition and Rheological Properties: SEC-NMR and Rheo-NMR

Closing Ceremony

16:25-17:00

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Poster
Listing



Application of Polymer in Management of Natural Disasters Green, Sustainable, Biopolymers, and Recycling Adhesives, Paints, and Coatings

Green, Sustainable, Biopolymers, and Recycling

A-10-1081-2	The Effect of Cellulose Acetate/CNT Morphology on the Final Response of Prepared Sensitive Layer to Detect of Lung Cancer Biomarkers	Miss Asma Noormohammad
A-10-590-1	Effect of Solvent and EDC/NHS Coupling Reagent for Thiolated Chitosan Synthesis	Ali Moradian, Mojgan Zandi, Morteza Behzadnasab, Mohammad Pezeshki-Modaress
A-10-590-2	Effect of crosslinking density on the toughness of Poly(glycerol sebacate) bioelastomers	Amir Hesam Arabsorkhi, Mojgan Zandi, Fahimeh Askari, Mohamad Pezeshki-Modaress
A-10-1576-1	Effect of different sulfonated polysulfone contents on electrochemical properties	Bita Roshanravan, Habibollah Younesi, Sang-Hyun Pyo, Mahdi Abdollahi, Mostafa Rahimnejad
A-10-1367-3	Synthesis And Characterization of Chitosan-Magnetite-Reduced Graphene Oxide Nanocomposites for the Targeted Delivery of Curcumin	shabnam kazemi, azam ghadami, fatemeh yazadian
A-10-1367-4	Improved Anticancer Properties of Curcumin Using Chitosan-Magnetite-Reduced Graphene Oxide Nanocarrier	shabnam kazemi, azam ghadami, fatemeh yazadian
A-10-1560-2	Effect of pH on oscillatory gel induced structure of graphene oxide and polyvinyl alcohol mixed suspension	Mrs Asal Yousefi siavoshani, Mr Hossein Nazokdast, Mr Hamid Garmabi, Mrs Fatemeh Mohammadzadeh
A-10-1594-1	Surface modification of polypropylene with poly octahedral silsesquioxane nanostructures for biomaterial applications	rahele mashhadi, Dr babak akbari, Dr majid karimi
A-10-81-3	Solvent System Selection in Electrospinning of Poly(lactic acid)	Zahra Mahdavi Moqadam, Dr. Jafar Khademzadeh Yeganeh, Dr. Saeedeh Mazinani, Dr. Mohamadreza Kalae
A-10-81-4	Electrospinning of Poly (lactic acid) in Prsence of Silicone Rubber Nanoparticles	Zahra Mahdavi Moqadam, Dr. Jafar Khademzadeh Yeganeh, Dr. Mohamadreza Kalae, Dr. Saeedeh Mazinani
A-10-1642-1	Preparation of self-electrical stimuli gel-fiber substrate as a promising candidate for neural tissue engineering applications	Mojdeh Mohseni, Ahmad Ramazani
A-10-1644-1	Improvement of MG63 cell attachment on porous polyurethane scaffold with incorporation of hydroxyapatite	Mr Seyyed-Ahmad Seyyed-Nasrollah, Dr Najmeh Najmoddin, Dr Mohsen Mohammadi, Dr Abdolali Fayyaz
A-10-1651-1	Synthesis of double and triple network hydrogels with excellent mechanical performance based on Polyacrylic acid/Sodium alginate/Agar	Sohrab Rahmani
A-10-1652-1	Synthesis of chemical and ionically dual cross-linked double network hydrogels based on oxidized sodium alginate and poly(acrylic acid-co-acrylamide)	Sohrab Rahmani
A-10-1653-1	Synthesis of dynamic hydrogels based on Schiff reaction by using of chitosan and oxidized sodium alginate and improvement of its mechanical properties via incorporation of polyacrylamide and gelatine networks into its network	Sohrab Rahmani
A-10-1309-2	Structure and crystallization of branched polylactic acid with peroxide and glycidyl methacrylate: The effect of different modification methods	Mrs. Mona Jafari, Mrs. Nadia Jalalifar, Mr. Babak Kaffashi



A-10-1658-1	Effects of substitution of Lysine to some other Amino Acids on Thermostability of proteins	Mohammad navid Mohabatkar, Professor Hassan Mohabatkar
A-10-1675-1	Preparation and rheological characterization of PEBAX-IL/PES membrane for gas separation	Master student Setareh Pishva, Doctor, Associate professor Shadi Hassanajili,
A-10-69-4	Flow cytometry based detection of breast cancer cells with Antibody conjugated magnetic nanoparticle	Dr amir hossein haghghi, Dr Zahra Faghiih, Dr Fatemeh Farjadian
A-10-1268-2	Effect of Althaea officinalis and Green Tea Extracts on the Bacterial Cellulose Production	Negar Honaramiz Fahim, Dr. Majid Montazer
A-10-1359-2	Preparation of Chop Polymeric Nanofibers Using Gelatin and Polycaprolactone	Ms. Sarah Karimi, Dr. Najmeh Najmoddin, Dr. Mohamad Pezeshki-Modaress
A-10-1668-1	Facile one-step protocol for Oxidation of Carrageenan	Taravat Khodaei, Jhamak Nourmohammadi, Azadeh Ghaee
A-10-1166-3	Evaluation the morphology and thermal behavior of Poly(lactic) acid/ functionalized Graphene oxide foams produced via super critical Carbon dioxide	Dr. Mohammad Reza Kamrani, Mr. Amir Ramezannejad, Dr. Alireza Aghili, Mrs. Katayoon Noorizadeh
A-10-1706-2	Novel polymeric wound dressing containing Artemisia annua L extract, suitable for the bacterial wounds	Mrs Fatemeh Sadat Mirbehbahani, Dr Fatemeh Hejazi, Dr Najmeh Najmoddin, Dr Azadeh Asefnejad
A-10-1595-1	Development of a new bone scaffold for the treat of large bone defects	Miss Keran Zhou, Dr Zhi Cao, Dr Fournet Margaret Brennan, Dr Devine Declan
A-10-1168-5	Internally Plasticized PVC by Covalent Attachment of Tributyl Citrate	Hossein Abdollahi, Vahid Najafi, Ali Samadi
A-10-1575-1	Preparation of PEG-BSA Conjugate for Stabilization of Water-in-Water Emulsions	miss raziye marashi, miss sareh Kheirie, Mr mohsen ashjari
A-10-1734-1	Synthesis and Characterization of Supramolecular Dual-Crosslinked Self-Healing Hydrogel Based on Reversible Host-Guest Complexation	Dr zahra mohamadnia, masoumeh mohammadhoseini
A-10-1730-1	Antibacterial Porous Membranes based on Imidazolium Ionic Liquids Bearing Different Alkyl Chains	Mr. Bahman Jafari, Dr. Davoud Afshar, Dr. Nasser Nikfarjam
A-10-1679-1	(Running head In a Reverse Micellar System: A Parametric Study	Mis azam dehghan, Mr saeed ghanbarzadeh, Mr mohammad Imani
A-10-1756-1	Synthesis of xanthan gum / polymethacrylic acid semi-IPN hydrogels for drug delivery systems	Sanaz Aboudi, Mehdi Ghaffari, Mohsen Shahrusvand
A-10-1741-2	hydrogel base on chitosan recyclable ion exchanger for efficient removal of chromate and nitrate from water solution: Synthesis, characterization and application in membrane	student maryam shojaipour, professor mousa ghaemy, professor jalal barzin, professor Seyed Mojtaba Amininasab, student mohammad vahedi
A-10-96-3	Investigation of biodegradation behavior and mechanism, thermal degradation behavior and mechanical properties of biopolymers: A review	Behnam Davoudi, Seysd Sajjad Khosravi, Milad Jalilian
A-10-96-4	Investigation of biodegradation behavior and mechanism, thermal degradation behavior and mechanical properties of biopolymers	Behnam davoudi, seyed sajjad Khosravi, Milad Jalilian
A-10-1783-1	Preparation and evaluation of morphology and swelling of wound dressings based on TPU / Chitosan and TPU / Nano-Chitosan	Seyed Mohammad Seyed Hosseini, Mohammad Taghi Khorasani
A-10-1715-1	Effect of pH on the extracted lignin weight and its functional groups from industrial waste black liquor	S. Ghane Gardeh, Elham S. Moosavi, Ramin Karimzadeh
A-10-1714-1	Investigation of Aromatic Oil substitution with Vegetable Oils on Abrasion Behavior of carbon black filled SBR	Golrokh Fard-Zolfaghari, Ali Abbasian, Mehdi Razzaghi-Kashani



A-10-530-1	Preparation of physically cross-linked gelatin porous microspheres	Parvin Shokrollahi, Fatemeh Shokrolahi, Mehran Ghasemi
A-10-1805-1	synthesis of inulin-Fe ₃ O ₄ nanocomposite using inulin biopolymer extracting from Jerusalem artichokes for the removal of heavy metals from aqueous solutions	Azam Amini Herab, Dariush Salari, Alireza Ostad Rahimi, Ali Olad
A-10-1805-2	isotherms, kinetics and thermodynamics studies of heavy metals removal using polymer nanocomposite inulin- iron oxide	Azam Amini Herab, Dariush Salari, Alireza Ostad Rahimi, Ali Olad
A-10-1361-3	Encapsulation of Pomegranate Seed Oil in the β -Cyclodextrin: Synthesis, characterization and application on the cotton	Miss Fateme Sadat Miri, Mr Mousa Sadeghi-Kiakhani, Miss Elaheh Hashemi, Mr Madi Safi
A-10-1361-4	Walnut green husks extract as the green antimicrobial natural dye on the wool treated by chitosan-nano ZnO	Mr Mousa Sadeghi-Kiakhani, Miss Elaheh Hashemi
A-10-1827-1	Fabrication and Characterization of Modified Chitosan-Coated Magnetic Nanoparticles for cancer therapy	Hamid Mirzadeh
A-10-1850-1	Effect of Isocyanate-Modified Cellulose on Structure and Properties of Silica Aerogel	parisa hakimi, ahmadreza bahramian
A-10-795-2	Morphological Investigation of Poly (Vinyle Alcohol)/Starch/Graphene Oxide Composite Nanofibrous Mats for Biomedical Application	N. Hosseini Darabi, M.R. Kalaei, S. Mazinani, R. Khajavi
A-10-1369-2	Surface modification of acrylic denture base to reduce the surface roughness and candida albicans adherence	Sobhan Shahsavari, Nadereh Golshan Ebrahimi

Adhesives, Paints, and Coatings

A-10-1572-1	Polyurea applications in construction	Mr Amirhosein Yazdanbakhsh
A-10-1613-1	Effect of hygrothermal weathering on the mechanical and dynamic mechanical properties of epoxy/glass fiber composites used for structural applications	Dr Mohammadnabi Hesabi, Dr Ian Major, Mr. Evert Fuenmayor, Dr Declan Devine
A-10-1613-2	Effect of UV weathering on the thermal decomposition kinetic of thermosetting composite for outdoor applications	Dr Mohammadnabi Hesabi, Dr Ian Major, Mr Evert Fuenmayor, Dr Declan Devine
A-10-1704-1	High temperature adhesives	Mahsa Javid, Fateme arabgol, Fateme Pashaei soorbaghi
A-10-1596-1	A bioadhesive film formulation as a potential transdermal drug delivery system: feasibility study based on examination of physical and mechanical properties	Student Fateme Etebari, Dr. Mohammad Khorram, Dr. Payam Setoodeh
A-10-1680-2	EVA Based Hot Melt Adhesive: PE Wax Versus Paraffin Wax	shahrzad rahmani, A. Dehghanian
A-10-1816-1	Effect of type of phenolic resin in preparation of an adhesive from phenol-formaldehyde resin	Ms Mehri Dana, Mr Mohammad Baraghoosh Baraghoosh, Mr Saeid Asadi Shahidi, Mr Payam Ganji, Mr Gholam Hossein Zohuri
A-10-405-2	Toughness enhancement of epoxy nanocomposite coatings using clay nanosheets modified with silanized hyperbranched polyester amide	Ms. Atefeh Rahimzadeh, Dr. Alireza Azizi, Dr. Morteza Ganjaee, Dr. Hossein Yari



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A-10-1300-3	Effects of Plasma and Ultraviolet-Ozone Treatments on Surface Properties of Polystyrene Culture Dishes	Sahar Afif, Morteza Nasiri, Farhang Abbasi
A-10-1552-1	The Impact of Nano Graphene Oxide on Rheological Properties of AM-co-AA Hydrogel as Drilling additive	Ahmad Rabiee, Fatemeh Salmani
A-10-1560-1	Effects of N-Methyl-2-pyrrolidone addition on gel developments of Graphene oxide/polyvinyl alcohol suspension under oscillatory shear	Asal Yousefi siavoshani, Hossein Nazokdast, Mr Hamid Garmabi, Mrs Fatemeh Mohammadzadeh
A-10-1585-1	Electrospinning low molecular weight alginate-based nanofibers	Seyyed Mahdi Saeed
A-10-1610-1	Investigation on the Convection Flow Effect on the Surface and Depth of the Evaporative Polymeric Solutions via PIV method	Sahar Farqarazi, Ali Abbasian
A-10-1655-1	The Study of Rheological Properties of the Most Applicable Polymers in Polymer Flooding of Oil Reservoirs	Ehsan Esmaeilnezhad, maysam rajabi
A-10-1655-2	Rheological Properties Investigation of Polymer Solutions Regard to Concentration and Salinity for Enhanced Oil Recovery	Ehsan Esmaeilnezhad, maysam Rajabi
A-10-1655-3	The Feasibility Study of Polymer Flooding in the High-Temperature Oil Reservoirs	Ehsan Esmaeilnezhad, maysam rajabi
A-10-1612-1	The effect of nanoparticle addition on the mechanical properties of a thermoplastic coating	Morteza Ehsani, Hossein Ali Khonakdar-sangdehi, Farnoosh Hormozinezhad
A-10-219-3	Development of a dual-curable epoxy system for prepreg preparation	hamidreza khalafi, morteza ehsani, Hossein Ali Khonakdar
A-10-1706-1	Fabrication of nanofibrous structure containing Artemisia annua L plant extract	Mrs Fatemeh Sadat Mirbehbahani, Dr Fatemeh Hejazi, Dr Najmeh Najmoddin, Dr Azadeh Asefnejad
A-10-1757-1	Rheological study of silk fibroin	Dr Elnaz Tamjid Shabestari, Afsaneh Ehsandoot
A-10-1778-1	The effect of different post-curing methods on hardness and swelling properties of stereolithography 3d printed parts	Ms. Zahra Shirband, Dr. Morteza Behzadnasab, Dr. Soheil Dariushi
A-10-1812-1	Low density EPDM foam in LCM line	Ms. mehrnaz rashidi, Ms. farnaz taheerian
A-10-1838-1	Preparation and characterization of magnetic carbonyl iron suspension using Ni-Zn ferrite nanoparticles additive	seyede samaneh ghasemi, nadereh gholshan ebrahimi

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A-10-1542-1	The effect of graphite powders on the thermal conductivity of EPDM rubber and heat transfer in its composite	mr Mahdi Zarinjooy Alvar, ms Zahra Farhang, mr Ahmad Reza Bahramian
A-10-1047-4	Dynamic rheological study on nitrile butadiene rubber reinforced with different levels of nanographene	Mr. Mohammad Barghamadi, Dr. Mohammad Karrabi, Dr. Mir Hamid Reza Ghoreishy, Dr. Somayyeh Mohammadian
A-10-1047-5	Investigation of the relaxation properties of nitrile rubber/ graphene nanocomposites containing different acrylonitrile content	Mr. Mohammad Barghamadi, Dr. Mohammad Karrabi, Dr. Mir Hamid Reza Ghoreishy, Dr. Somayyeh Mohammadian



A-10-1564-1	Effect of devulcanized rubber on properties of EPDM rubber	Miss Atefeh Salimi, Mr Foroud Abbasi Sourki, Mr Mirhamidreza Ghoreishy, Mr Mohammad Karrabi
A-10-26-1	Effect of Calcium Oxide on the Properties of Compounds based on General Purpose Rubbers	Dr Fatemeh Khodkar, Mr Mojraba Khoshmanzar
A-10-1602	Reinforcing efficiency and compatibilizing effect of nanosilica for ethylene-propylene diene monomer/chloroprene rubber blends	Miraidin Mirzapour
A-10-266-3	Effect of halloysite nanotube and acrylonitrile butadiene rubber elastomer on the tensile strength of PVC/NBR/HNT nanocomposite	Sohrab Payravi, Mohammad Reza Nakhaei, Pedram Safarpour, Ghasem Naderi
A-10-1832-1	Evaluation of the effect of nanoclay on solvent resistance of ethylene propylene dien monomer elastomers	Mahnoosh Ahmadi, Mohammadreza Pourhossaini, Mahmood Razavizadeh
A-10-124-2	Tearing Energy Methodology in Rubber Fatigue and Crack Growth Studies: A Short Assesment for Rubber Compounding	Mehdi Shiva
A-10-1754-1	Effect of Silica on Filler Dispersion and Networking in Carbon black Filled Styrene-butadiene Rubber Compound	Arshia Amrollahi, Seyed Mostaffa Hosseini, Mehdi Razzaghi-Kashani
A-10-1759-1	The role of Hybrid Fillers in Vulcanization of Styrene-Butadiene Rubber(SBR) Compounds	Dr. Mehdi Razzaghi-Kashani
A-10-1793-1	Mechanisms behind the Change of Vulcanization Kinetics of Silica Filled Maleated Natural Rubber	Mahan Ghorashi, Seyed Mostaffa Hosseini, Mohammad Alimardani*, Iman Abbasi Shahdehi
A-10-1825-1	Effect of Graphene Concentration on the Curing and Mechanical Properties of Chlorobutyl Rubber Nanocomposites	marziye sharifi-Teshnizi, Dr Azam Jalali-Arani, Dr Marianella Hernández Santana
A-10-1840-1	On The Role of Reinforcing Fillers in The Vulcanization Mechanism of Styrene-butadiene Rubber	Seyed Mostaffa Hosseini, Mehdi Razzaghi-Kashani
A-10-1841-1	Evaluation the transport properties of the natural rubber as polymer gels and investigating the effect of the network heterogeneity	Mohammad Layeghi, Mohammad Reza Pourhossaini, Mahmoud Razavizadeh, Mohammad Khabiri, Milad Saadat Tagharoodi
A-10-1821-1	Effect of Silane Chain Length on The Filler-Polymer Interaction in Silica Filled Polydimethylsiloxane	

Polymer Nanocomposites, Blends and Alloys

Polymer Nanocomposites, Blends and Alloys

A-10-1001-1	Mechanical and Shape Memory Properties of Thermoplastic Polyurethane Nanocomposites Containing Solo- and Hybrid-Based Silicate Nanofillers	Mr. Arian Amirkiai, Dr. Gity Mir Mohamad Sadeghi, Prof. Hossein Nazockdast
A-10-1471-1	Polymorphism Investigation of Montmorillonite-Incorporated Thermoplastic Polyurethane Nanocomposites	Mr. Arian Amirkiai, Mr. Mahbod Abrisham, Mr. Parham Dehghan, Prof. Hossein Nazockdast
A-10-1044-4	The Effect of Functionalization of Halloysite Nanotubes with Iron Oxide on the Morphology and Mechanical Properties of Polyurethane	Miss Fatemeh Mohammadzadeh, Mr. Vahid Haddadi-Asl, Mr. Iman Sahebi Jouybari, Miss Asal Yousefi Siavoshani
A-10-1569-1	Fabrication of Graphene Nanoplatelet -based PMMA/PEO Nanocomposites with Enhanced Mechanical, Thermal and Electrical Properties	Elham Aram, Morteza Ehsani, hossein ali khonakdar
A-10-236-3	Fe3O4 nanocomposite hydrogel for drug delivery application	Dr Rajabali Ebrahimi, mrs Marziyeh Pakniyat
A-10-1598-1	Photocurable and injectable nanocomposite based on polyvinylpyrrolidone/triethylene glycol/POSS	Ms. Sara Pirani, Dr. Naimeh Bahri-Laleh, Dr. Sahar Banyaghoob, Dr. Seyed Amin Mirmohammadi
A-10-81-2	Shape memory behavior of dynamically vulcanized thermoplastic elastomers based on PLA/EVA blend in presence of nanoparticles	Pardis Lohrasbi, Dr. Jafar Khademzadeh Yeganeh, Mohsen Najafi
A-10-1542-2	Effect of graphite and oxidation process on the paraffin wax content and its leakage in the phase change material system prepared by swelling method	Mahdi Zarinjooy Alvar, Ahmadreza bahramian
A-10-1637-1	Microwave-Assisted Nanocellular Foaming of TPU/MWCNT Nanocomposite	Mr Mohammad Aghvami Panah, Ms Mehrnaz Shahbazi, Prof Seyyed Reza Ghaffarian anbaran



A-10-1629-1	hydrogel nanocomposite based on acryloyl tetra ammonium thiocalix[4]arene for removal of cationic dye	Mrs mahvash niknezhad, Mr moslem ansour lakouraj
A-10-1617-1	A brief reserch on natural polymer / graphene composites	Dr Tayebbeh Behzad, Ms Elham Mansoori
A-10-1638-1	Rubber toughening of poly amide-6 with functionalized styrene butadiene rubber	Ms Minoo Borojerdj
A-10-1693-1	Stabilizing Effect of Dicyclohexyl Phthalate on Low Dose Gamma Irradiated Polycarbonate	farah khoylou, Azam Akhavan, vajihe Nikfarjam, Nasrin Sheikh
A-10-1654-1	Nanocomposite Polyelectrolyte Membranes Based on Sulfonated Aromatic Polymers for Fuel Cell Applications	Ms. Kosar Arab, Ms. Mohadeseh Montahayie, Dr. Mahdi Tohidian
A-10-1657-1	Piezoelectric Properties of Gamma Radiation Crosslinked PVP/PEG/Barium Titanate Nanocomposite Hydrogel	Masoud Frounchi
A-10-355-1	Experimental and theoretical investigations of Tensile behavior of Carboxylated nitrile butadiene rubber /Epoxy/ Halloysite nanotubes Nanocomposites	Dr. Seyed Mohamad Reza Paran, Proff. Ghasem Naderi
A-10-1625-2	Lubricating effect in phase coarsening of PE/PCL/PEO tri-continuous polymer blend	Dr. Mehdi Haji Abdolrasouli, Dr. Ebrahim Jalali Dil, Dr. Jamshid Khorshidi Mal Ahmadi
A-10-1669-1	Radiation preparation of nanomagnetic hydrogel based on semi-IPN system	Dr. Nasrin Sheikh, Dr. Zahra Rafiei-Sarmazdeh
A-10-1176-2	Tensile Properties and Stress Whitening of Polypropylene Modified with Elastomers	Mr. Mohammad Farmahini Farahani, Dr. Reza Bagheri
A-10-1176-3	Stress Whitening Resistance of Polypropylene-Rubber Compounds in Impact Tests	Mr. Mohammad Farmahini Farahani, Dr. Reza Bagheri
A-10-1656-1	Effect of adding multi-walled carbon nanotubes on the tensile and compression properties of epoxy resin	mehdi maktabi, razi Sahraeian, Soheil Dariushi
A-10-1681-2	The effect of clay intercalation/exfoliation state in thermoplastic polyurethane/clay nanocomposites on the transport behavior of solvent	Amir Hossein Manzari shahrjerdj, Mohammad Khabiri, Milad Saadat Tagharoodi, mahmoud Razavizadeh, Mohammad Reza Pourhossaini
A-10-1682-1	Effect of multiwall carbon nanotube on the mechanical and dynamic mechanical properties of foams based on POE/COC blends with co-continuous morphology	mehran saadatmand, Dr hamed azizi, Dr saied ahmadjo
A-10-1682-2	Effect of multiwall carbon nanotube on the cell morphology and rheological properties of POE/COC blend foams with co-continuous morphology	mehran saadatmand, Dr hamed azizi, Dr saied ahmadjo
A-10-1688-1	Integration of polylactic acid/ polycaprolactone-halloysite nanotubes (PLA/PCL-HNT) nanocomposite for biodegradable stents	Ms Chaitra Venkatesh, Dr Ian Major, Dr John Lyons, Dr Declan Devine
A-10-355-2	Curing behavior and mechanical properties of Ethylene-propylene diene monomer /Nitrile butadiene rubber/ Halloysite nanotubes Nanocomposites	Dr. Seyed Mohamad Reza Paran, Prof. Ghasem Naderi, Msc Moslem Mirzaee, Prof. Mir Hamid Reza Ghoreishy
A-10-1700-1	Investigating the physical and mechanical properties of starch/nano-cellulose nanocomposites	Ms. Niloofar Hosseinvand, Dr. Niloofar Eslahi, Dr. Ali Abbasian
A-10-1648-1	Reinforced natural polymeric scaffold using modified glass-flake nanoparticles	Zahra Dezfouli, Mojdeh Mohseni
A-10-1689-1	Synthesis and Preliminary Evaluation of New Phosphorous-Containing Flame-Retardant Hardeners for Epoxy Resin	Jamshid Kamalipour, Mohammad Hosain Beheshty, Mohammad Jalal Zohuriaan Mehr
A-10-1707-1	Functionalization of Styrene-Ethylene-Butylene-Styrene (SEBS) by melt free radical grafting of Glycidyl Methacrylate (GMA) and study of mechanical properties of Nylon 6 /SEBS-g-GMA blend	Alireza Alami
A-10-1618-2	The Effect of CTBN Rubber on Epoxy Resin properties	Dr Ali Reza Banan, Ali Ebaidirad, Dr Yahya Ebrahimabadi
A-10-1698-1	Abrasion and thermal resistant SiO ₂ /ZrO ₂ /epoxy nanocoating on epoxy/glass substrate	En. S. Abbasalizadeh, Dr. Kh. A. Nekouee, Dr. M. H. Alaei, Dr. H. Fattahi
A-10-1309-3	Effect of dehydration method on the rheological properties of Polylactic acid/Halloysite nanotube composites	Mrs. Nadia Jalalifar, Mrs. Mona Jafari, Mr. Babak Kaffashi
A-10-1549-1	The Effect of Linear Low Density Polyethylene on Strain Hardening Modulus of Bimodal High Density Polyethylene Pipe Grade	Assistant Professor Ghodrattollah Hashemi Motlagh, Miss Farnaz Ebrahimi
A-10-1660-2	Graphene Oxide Reinforced Nanocomposite Made from PS-PMMA Core-Shell Fibers	Dr. Zahra Khoubi-Arani, Dr. Shahrzad Rahmani



A-10-1729-1	A Review on PLA Nanocomposites reinforced with CNT: Characterization and Properties	Amin Kamkar, Ehsan Vahabi Agha Babaee
A-10-1711-1	Fabrication and characterization of oxidized starch nanoparticle as a carrier for target delivery of vancomycin	elnaz bahaghighat, Jhamak nourmohammadi, Fatemeh Jafari
A-10-1733-1	Recycled Polyethylene terephthalate modified bitumen: physical and morphological properties	Fakhraddin Alimoradi, AliReza Khaloo, Morteza Faghihi
A-10-1736-1	Novel bilayer PVDF/gelatin nanostructure for the regeneration of damaged retina	Bitra Amouzadeh, Fatemeh Hejazi, Seyyed Mahdi Saeed, Azadeh Asefnejad, Asma Motamedi
A-10-1741-1	hydrogel base on chitosan recyclable ion exchanger for efficient removal of chromate and nitrate from water: Synthesis, characterization and application in membrane	student maryam shojaipour, profesor mousa ghaemy, profesor jalal barzin
A-10-266-2	Investigation of impact strength of nanocomposites based on PVC/NBR/Graphene	Amir hosein Hamdolahzadeh, Mohammad reza Nakhaei, Roholah Sarfaraz, Ghasem naderi
A-10-1620-2	Mechanical Properties of PP/PBR TPV in-situ Compatibilized by MAA and Zn2/Al Layer Double Hydroxide	Dr Reza Darvishi, Ali Moshkriz
A-10-1738-1	Biodegradable poly (lactic acid)-WPI blends containing Nanoclay for food packaging films with gas barrier properties	ENG Farshid Ahmadi, Dr Hamid Ahmadi, Dr Zahed Ahmadi, Dr Azizeh Javadi, Dr Hosein Nazokdast
A-10-1671-1	Preparation of MWCNT/Ba0.2Sr0.2La0.6MnO3/PANI nanocomposites and investigation of its electromagnetic properties in KU-band	Prof. Seyed Hossein Hosseini, Dr. Reza Paymanfar, Dr. Tooba Afshari, - Sama Sadat Hosseini
A-10-1581-1	Synthesis of polyamide-imide and investigation of the interpenetrating network created by its interaction with epoxy resin	Mr Armin Amini Majd, Mr Amir Reza Pouladvand, Dr Iraj Amiri Amraei, Dr Mehrzad Mortezaei
A-10-1581-2	improving the mechanical properties of epoxy resin and glass-fiber-reinforced epoxy composite by polyamide-imide	Mr Armin Amini Majd, Mr Amir Reza Pouladvand, Dr Iraj Amiri Amraei, Dr Mehrzad Mortezaei
A-10-266-4	Effect of process parameters on mechanical properties PA6/NBR/Clay nanocomposites fabricated by Friction stir process	Ali Ghorbankhan, Mohammadreza Nakhaei, Ghasem Naderi
A-10-1581-3	Investigation of the changes in thermal properties of epoxy resin by reaction with the polyamide-imide reactive modifier	Mr Armin Amini Majd, Mr Amir Reza Pouladvand, Dr Iraj Amiri Amraei, Dr Mehrzad Mortezaei
A-10-1660-3	Thermal Annealing Effect on the CRR Size of a Phase-Separated Soft Polymer Nanocomposite	Dr. Zahra Khoubi-Arani, Prof. Naser Mohammadi
A-10-1696-1	Preparation of Cs0.2WO2.7/polypyrrole nanocomposite and investigation of its UV-Visible and near infrared shielding effect	Hossein Hosseini
A-10-1763-1	MWCNTs reduces the diameter of electrospun PVDF nanofiber	Dr. Mehrdad Kokabi, M.Sc. Student Seydeh Negar Samadi Jirdehi, M.Sc. Student Narges Pishehvar
A-10-1764-1	The effect of MWCNTs on electrospun PVA nanofiber diameter	Dr. Mehrdad Kokabi, M.Sc.student Narges Pishehvar, M.Sc.student Negar Samadi
A-10-1767-1	Aqueous Electrospinning of Carboxymethyl Chitosan/Polyethylene Oxide Nanofibers	Dr Shadab Bagheri, Prof Hamid Mirzadeh, Ahmad Reza Moradi
A-10-1669-2	Application of nanomagnetic hydrogel prepared by gamma radiation in cleaning old oil paintings	Dr Nasrin Sheikh, Dr Zahra Rafiei-Sarmazdeh
A-10-1777-1	Solvent-free template synthesis of superparamagnetic Fe3O4@PANI nanocomposite as an electron transport layer in polymer solar cells	Fatemeh Sadegh, Ali Reza Modarresi-Alam
A-10-1787-1	An Investigation on Flexural Properties of 3D Printed Composites	miss Naghme Raghbati, miss Nastaran Mosleh, Mr Soheil Dariushi, Mr Masoud Esfandeh
A-10-1541-1	The effect of nano-silica on the paraffin wax heat of fusion for thermal energy storage system applications	zahra farhang, mahdi zarinjooy, ahmadreza bahramian
A-10-96-2	Investigation of mechanical properties and flammability of PC/ABS blend with different compatibilizers	Farzaneh Mostaani, Seyd Sajjad Khosravi, Milad Jalilian
A-10-1782-1	Effect of Nanosilica Hydrophilicity on Swelling and Dynamic Mechanical Properties of Thermoplastic Polyurethane Elastomers	Javad Rezaali, Mahmoud Razavizadeh, Mohammad Reza Pourhossaini, Mohammad Khabiri, Milad Saadat Tagharoodi
A-10-1776-2	Investigation on the mechanical properties of Polybutylene succinate/graphene oxide-xanthan gum nanocomposite	Azade Kafashan, Amir Babaei
A-10-1810-1	Preparation of flexible zeolite nanocomposite fibers by electrospinning process	F. Haghdoost, S. Hajir Bahrami. J. Barzin, A. Ghaee
A-10-1815-1	Synthesis of Dental Nanocomposites Based on Polymethyl Methacrylate and Periodic Mesoporous Organosilica (PMO) Nanoparticles	Zohreh bahrami, Hassan Abdoos, Mahdi Khorsand Riabi



A-10-1093-1	Experimental Study of Toughening Mechanisms in Poly (lactic acid)/ Poly Chloroprene based blends	Zahra Shahroodi, Amir Abedi, AliAsghar Katbab
A-10-104-4	Effect of Sepiolite Nano Clay on Oxygen Permeability of Poly Butylene Succinate Matrix	Prof Mehdi Rafizadeh, Ms. Fatemeh Rahimi
A-10-1819-1	Effect of Dynamic Vulcanization on the molecular weight of Blends Based on Polylactide and Acrylonitrile Butadiene Rubber	Dr Mahshid Maroufkhani, Prof AliAsghar Katbab, Dr Hasti Bizhani
A-10-497-1	Modification and application of novel methyl methacrylate-butadiene-styrene (MBS) impact modifier in Nylon 6	hamid salehi-mobarakeh
A-10-1822-1	PEBAX/COF Mixed Matrix Membranes for CO2 Separation	Dr. Morteza Sadeghi, Prof. Arjomand Arjomand Mehrabani-zeinabad, - Shiva Zolfaghari
A-10-1823-1	Preparation of bio-nano composite hydrogels of gum tragacanth and halloysite nanoparticles by electron beam irradiation	Maryam Dehghan-Niri, Ebrahim Vasheghani-Farahani, Mohamadreza Baghaban Eslaminejad, Moslem Tavakol, Fatemeh Bagheri
A-10-1795-1	Production and investigation of nanofiber properties of polyether sulfone membranes with graphene oxide(PESGO)	ghafarzade negin
A-10-324-1	The change of morphology of in-Situ prepared PE/MMT nanocomposite by different procedures of modification of Na-MMT	SHOKOUFEH HAKIM, ALI ALIKHANI, MEHDI NEKOOMANESH
A-10-324-2	Effect of NH3/Methylaluminoxane/Dodecylamine modified-Nanoclay on the Properties of Polyethylene/Clay Nanocomposites Prepared by in-Situ Polymerization	SHOKOUFEH HAKIM, ALI ALIKHANI, MEHDI NEKOOMANESH
A-10-1836-1	Mechanical properties and surface hydrophobicity improvement of high-density polyethylene by silica-nanoparticles	proff Jalil Morshedian, student Sedighe Sepahbod-Bakhshaiesh
A-10-1817-1	physical improvement of the polyester-based nanocomposites	morteza ehsani, pegah farazande
A-10-1835-1	Structural analysis of the curing of off-stoichiometric epoxy-DICY system	Sogand Jafary, Morteza Mortezaee
A-10-1341-3	Morphology and antibacterial properties of Unplasticized polyvinyl chloride	Adel Soleimani, Farhid farahmandghavi, Jalil Morshedian
A-10-619-3	Morphological study of polylactic acid and polybutylene succinate blends	Dr Mohsen Mohammadi
A-10-1352-7	Investigation on the thermal properties of polylactic acid/graphene oxide-chitosan nanocomposites	Mehrdad Soleimani, Mohammad ali Torangi, Amir Babaei
A-10-619-4	Wide-angle X-ray diffraction scrutiny of polyolefin blends blown films	Dr Mohsen Mohammadi
A-10-1352-8	Enhancing the biocompatibility of polylactic acid using graphene oxide-chitosan	Mehrdad Soleimani, Mohammad ali Torangi, Amir Babaei
A-10-1776-3	Investigation on the mechanical properties of polylactic acid/chitosan nanocomposites	Leyli Moradi, Pooria Hoseinzadeh, Mehrasa Amiri, Azade Kafashan
A-10-1843-1	Effect of Calcium Carbonate Characteristics on the Mechanical Properties of PP/CaCO3 Composites	Dr hadi sobhani, MSc Tayebeh Pirhayati, MSc Shirin Mohammadi Ali abadi, Dr Mohammad Mahdi Khorasani
A-10-1600-1	Functionalized chitin nanowhiskers for application in direct methanol fuel cell membranes	Mr Mojtaba Nasirinezhad, Dr Seyed Reza Ghaffarian, Dr Mahdi Tohidian
A-10-1846-1	The Effects of ZnO Nanoparticles and Stearic acid Compatibilizer on the Antibacterial Properties of Polypropylene	Nooshin Abzan, Abbas Fatehi
A-10-1795-2	Production and investigation of nanofiber properties of polyether sulfone membranes with graphene oxide(PESGO)	negin ghafarzadeh
A-10-1848-1	Preparation of hard PVC and POE grafted with maleic anhydride blends strength and toughness	Najmeh Alizadeh, ardeshir.saeidi@srbiau.ac.ir ardeshir.saeidi@srbiau.ac.ir ardeshir.saeidi@srbiau.ac.ir, Ismaeil ghasemi
A-10-1855-1	Manufacturing of antibacterial polyethylene tanks using oxide and metal nanomaterials	Mr. Ali Abbaszadeh, Mr. Alireza Abdoljavadi, Mr. Hosein Teymoori Tafazol, Mr. Mehdi Eskandari
A-10-1853-1	Influence of crystalline structure on tensile properties of LLPE/HDPE blends	Dr hadi sobhani, MSc Parviz Mousavi
A-10-1800-1	Preparation and evaluation of thermal properties and flame resistance of epoxy/graphene oxide/POSS nanocomposites	Majid Karimi



Simulation and Modeling of Polymeric Systems Nano, Smart, and Electronic Polymer System

Simulation and Modeling of Polymeric Systems

A-10-1544-1	Poly(2-oxazoline)/Graphene Interface Revealed by Molecular Dynamics	Dr. ahmad asadinezhad
A-10-1579-1	Modeling and parametric optimization of an epoxy resin-based microwave absorbing composite	Abbas Khademabolfazl, Sajjad Nazemzadeh
A-10-1582-1	Simulation of injection molding process of a plastic toy using Mold Flow software	Ms sajede aghasi, Mr amirhosein yazdanbakhsh
A-10-1660-1	Modification of Compressible Regular Solution (CRS) Model Based on Sanchez-Lacombe Lattice Fluid EoS for Describing LCST Phase Behaviors	Dr. Zahra Khoubi-Arani
A-10-1643-1	Minimization of phase separation velocity in aqueous two-phase systems containing dextran and polyethylene glycol	Ms maryam barati, Dr mohsen ashjari
A-10-1731-1	Evaluating the mechanical response of TPMS-based polymeric scaffolds based on additive manufacturing method using experimental tests	Dr Mohammad Nikkhoo
A-10-1643-2	The determination of Tie-line fields and critical points for coexisting polyethylene glycol and dextran aqueous system based on chromatographic data: a phase separation modeling	Ms maryam barati, Dr mohsen ashjari
A-10-1620-3	Non-isothermal Emulsion Ter-polymerization of Maleic Anhydride, Butyl Methacrylate and 3,5-dihydroxy-4-isopropyle trans-stilbene:	Ghasem Payam, Reza Darvishi, Ali Moshkriz
A-10-1774-1	Control of solvent evaporation in the process of phenolic prepregs Production	Mehrzaad Mortezaei, Mohammad Oveisi
A-10-574-2	Adsorption of a Silyl Ester Donor on Magnesium Chloride Support of Heterogeneous Ziegler-Natta Catalysts: Influence of Alkyl Substituents	Dr Mehdi Ghambarian, Dr Hassan Arabi, Dr Mohammad Ghashghaee
A-10-574-3	Isoconversional Non-Isothermal Kinetic Modeling of Linear Low-Density Polyethylene (LLDPE) Pyrolysis over USY Catalyst	Mr Ali Sharifi, Dr Mohammad Ghashghaee

Nano, Smart, and Electronic Polymer System

A-10-1597-1	An overview of the radiation-protective properties of nanocomposites containing Iron Oxide and High Density Polyethylene in the presence of X- and Gamma-rays	Mrs Monireh Keshavarzi, Dr Shahryar Malekie, Dr Seyed Mohammad Amin Hosseini,
A-10-1570-1	Fabrication of a Strain Sensor Based on Polyurethane/Silver Nanowires Nanocomposite for Medical Applications	Engineer Pegah Hashemi, Dr Milad Mehranpour, Dr Ismaeil Ghasemi,
A-10-1109-2	The effect of heating/cooling rate on the phase transition temperature of amorphous shape memory polymer nanocomposite	Miss Ghazaleh Alamdarnejad, Dr Mehرداد Kokabi,
A-10-1616-1	Evaluation of dosimetry response of nano Graphene Oxide to gamma-rays and electron beam using noninvasive Raman spectroscopy	Dr. Shahryar Malekie, Dr. Mohammad Amin Hosseini, Nesa Ebrahimi, Ahmad Reza Vatankhah,
A-10-1558-1	Hydrogenation of PAO type Lubricants Using A New Pd Immobilized on Functionalized Halloysite catalyst	Mrs Mahtab Tabrizi, Samahe Sadjadi, Naeimeh Bahri-laleh, Mehdi Nekoomanesh,
A-10-1631-1	Polymeric nanoparticles synthesis based on emulsification solvent evaporation as a smart drug delivery system for Quercetin delivery as a candidate of pulmonary fibrosis treatment	Fatemeh Aghanasiri, Mojdeh Mohseni, Seyed Ali Javad Mousavi, Mohamad Pezeshki Modareh, Bita Mehravi,



A-10-1168-4	Multifunctional Piezoelectric & Microwave Absorbing Nanocomposites	Ali Samadi, Hossein Abdollahi,
A-10-1650-1	Competition between the slow cooling and diluent presence to control poly(3-hexylthiophene) crystallization	Mina Alizadehaghdam, Farhang Abbasi,
A-10-1631-2	Modified chitosan-alginate nanoparticles as a candidate for efficient ocular drug delivery	yeganeh Shojaei, Mojdeh Mohseni, Bita mehravi,
A-10-1186-2	Characterization of Magnetic-polymer-thick film filled with synthesized Fe ₃ O ₄ nanoparticles	Mrs Nermin Janem, Dr Zahra Sadat Azizi, Prof Mohammad Mahdi Tehranchi, Dr Saed Pourmahdian,
A-10-1680-1	A Study on Ionomer Solution Casting: Selecting an Appropriate Aprotic Solvent	Dr. shahzad rahmani,
A-10-1648-2	Targeted nano-piezoelectric based with the aim of controlled Topiramate release for the treatment of epilepsy	Farhan Delavar, Mojdeh Mohseni,
A-10-1565-1	Ropivacaine loaded PLGA microspheres via electrospray for postoperative pain management	Milad Jafari Nodoushan, Mona Golmirzaei,
A-10-236-4	Swelling behavior of poly(acrylamide-co-acrylic acid) hydrogel	Dr Rajabali Ebrahimi,
A-10-1716-1	Synergic effect of Honey and tetracycline on Electrospun PCL wound dressing	Hossein Soleimani, Mahdi Saeed , Milad Jafari Nodoushan
A-10-1717-1	Fast, easy, light, safe and high quality neutron shielding preparation using nanofiber polyaniline in presence its different dopants	Prof. Hossein Hosseini, Student Sama Hosseini, Student Morvarid Kiamarzi,
A-10-1024-1	Gel Fraction Adjustment in Polyvinyl Alcohol-Copper Hydrogel to Achieve the Maximum Modulus	Prof Mehrdad Kokabi,
A-10-1650-2	Towards higher ordered crystals in the isothermal crystallization process	Mina Alizadehaghdam,
A-10-1650-3	Successive melting and crystallization changes the crystalline behaviour	Mina Alizadehaghdam,
A-10-1650-4	Thicker crystals with lower stability formed during a rapid crystallization	Mina Alizadehaghdam,
A-10-1156-5	Approach of Liquid Crystalline Elastomers in Tissue Engineered Scaffolds	Ms Mahshid Fallah-Darrehchi, Dr Payam Zahedi,
A-10-1567-1	Copper-containing polyurethanes and study of their dielectric properties	Pouya Gharibi, Mohammad hossein Navid Famili,
A-10-1060-2	Production and evaluation of hybrid hydrophilic / hydrophobic membranes for membrane distillation process	Mohammad Karimi,
A-10-1789-1	Preparation of Ethyl 2-cyanoacrylate/PMMA core-sheath mesocapsules via electrospray process for self-healing biomedical purposes	Mr. Alireza Aminoroaya, Dr. Saied Nouri Khorasani, Dr. Rouhollah Bagheri, Dr. Zahra Talebi, Dr. Rasoul Esmaeely Neisiany,
A-10-1776-1	Enhancing the bio-safety of graphene oxide by exploiting Xanthan gum biopolymer	Azade Kafashan, Amir Babaei,
A-10-1402-2	Filtration azoic dyes of wastewater with nanofibers membrane PA6/3D fabric	Mohammad Nouri taba, Nader Ghobadi, Ali Hosseini moradi,
A-10-1752-1	Nanofiber and its role in Prevention of delamination	Mrs. Mahya Bayat, Dr. mehrzad mortezaei,
A-10-1587-1	Preparation and characterization of cellulose nanocrystals from cotton fiber	
A-10-1263-2	Study of the photocrosslinking kinetic of Poly(ethylene glycol) diacrylate (PEGDA) containing Methacrylated-POSS nanoparticles	Dr Shadab Bagheri, Mr Alireza Keyhanzadeh, Dr Seyed Reza Ghafarian, Dr Majid Karimi, Dr Mohammad Atai,
A-10-1156-6	Preparation and Characterization of Poly (Lactic Acid)/Natural Rubber Blends As a Shape Memory Thermoplastic	Mr Abbas Barzegar, Dr Payam Zahedi, Dr Foroud Abbasi-Sourki, Mr Ali Malekzadeh,
A-10-1830-1	Electrocatalytic Reduction of CO ₂ Using Cu/CNT/PPSU nanofibrous Gas Diffusion Electrode	Ms. Parisa Mirzaei, Dr. Hajir Bahrami, Mr. Navid Noormohammadi, Mr. Abdollah Gholami akerdi,
A-10-1352-5	Investigation of the optical properties of nano-fibrillar chitosan-ZnO nanohybrid	Rozgol Bonsaleh, Amir Babaei, Alireza Shakeri,
A-10-1352-6	Reducing cytotoxicity of ZnO-NPs by nano-fibrillar chitosan: Effect of concentration	Sahar Shafigh, Amir Babaei, Alireza Goudarzi, Zahra Arab-Bafrani,



A-10-1852-1	Synthesis and Characterization of Electrochromic Sensor Based on Aniline Pentamer	Mr moein rezaee zangeneh, Mr Ali aghajani, Mr behzad pourbadiei, Prof Ali pourjavadi,
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Polymer Synthesis and Polymerization

Polymer Synthesis and Polymerization		
A-10-1168-2	Determination of monomer sequence distribution and thermal properties of poly (GMA-co-MMA) copolymers	Hossein Abdollahi, Ali Samadi
A-10-1168-3	Solution free radical Copolymerization of glycidyl methacrylate and methyl methacrylate: monomer reactivity ratios	Hossein Abdollahi
A-10-1639-2	Design and Preparation of organometallic polymers containing bithiazole rings	A Akram Hosseinin
A-10-1574-1	The Comonomer and Hydrogen Effect of the Second-Step Polymerization on Polyethylene Properties	Mr. Ehsan Nikzinat, Mr. Mohammad Hossein Jandaghian, Mr. Abdulhannan Sepahi, Mr. Reza Rashedi, Mr. Kamal Afzali
A-10-1670-1	Effect of Type of Catalyst on Functionalization of Poly 1-Hexene With Maleic Anhydride	mohammad reza zamani, dr saeed ahmadjo, dr mohammad mahdi mortazavi, dr mohammad reza rostami
A-10-1155-3	Group IV DiamineBis(phenolate) Catalysts for 1-Decene Oligomerization	Ahad Hanifpour, Naeimeh Bahri-Laleh, Mehdi Nekoomanesh-Haghigh
A-10-1647-1	Pd immobilized on Polymer network-halloysite nanocomposite as a usefull catalyst for PAO hydrofinishing	Miss Sahar Karimi, Mr Mehdi Nekoomanesh, Miss Samahe Sadjadi, Mrs Naeimeh Bahri-Laleh
A-10-1156-4	Synthesis and characterization of poly (4-vinylpyridine) as a zwitterionic polymer	Mr Ali Malekzadeh, Dr Payam Zahedi, Prof Majid Abdouss, Mr Alireza Khatibi
A-10-1641-1	Morphology-Activity Relationship of MgCl ₂ -Based Ziegler-Natta Catalysts	Mr Mohammad Hossein Jandaghian, Mr Abdol Hannan Sepahi, Mr Reza Rashedi, Mr Kamal Afzali, Mr Ehsan Nikzinat, Miss Razieh Davand, Miss Maryam Masouri
A-10-1662-1	Thermal Stabilization of Polyoxymethylene by copolymerization: Examining the Effects of the catalyst and retardant	Shervin Ahmadi, Hedieh Jashni, HasanAgha Arabi, Saeed Dolatshah
A-10-1628-1	Effects of Azobisisobutyronitrile and Benzoyl Peroxide as Initiators on the Synthesis of Acrylic Resins via Solution Polymerization	Kimia Moghaddari-Navid Ramezani
A-10-1628-2	Study the effects of solvent content and initiator concentration on viscosity and solid content of acrylic resins	Kimia Moghaddari-Navid Ramezani
A-10-1300-4	Polymerization of acrylamide with N-vinylpyrrolidone and investigating its thermal stability in saline solution	Ali Najafpour, Morteza Nasiri, Farhang Abbasi
A-10-50-2	Investigation of outgassing, mechanical, and electrical properties of electrical insulation-based polyurethane	Medi Goleiz, Hajar Es-haghi, Mohamad javad babaei, Mohamad taghi khani, Tohid Faraj por
A-10-370-4	Preparation of graphene oxide - polystyrene nanocomposites by in situ emulsion polymerization	Dr Mohsen Najafi, Dr Jafar Khademzadeh Yeganeh
A-10-1640-1	Fabrication Conductive Fiber by Crosslinking Polyanilin with Glutaraldehyde	Sajad Amiri
A-10-1300-5	Thermoresponsive copolymers on the basis of acrylamide with upper critical solution temperature in water	Kave Sharifiyan, Morteza Nasiri
A-10-1732-1	Preparation of WO ₃ /MnFe ₃ O ₄ /polyaniline nanocomposites as thermal infrared and microwave multi-absorber	Hosseini Hossein
A-10-89-2	Kinetic of higher α -olefins oligomerization using Cp ₂ ZrCl ₂ and Cp ₂ HfCl ₂ metallocene catalysts	Dr Ahad Hanifpour, Mr Mahdi Hashemzadeh Gargari, Dr Zahra Kalantari, Dr Naeimeh Bahri-Laleh
A-10-1703-1	An Effective Rout for Preparation of Poly Methyl Methacrylate (PMMA)/ Silica Nanocomposites via two Initiators	zahra Mortazavi

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A-10-1586-1	Manipulating top layer characteristics of thin film composite membranes by using dicationic ionic liquids as additives	Mohammad Aghajohari, Alireza Sharif, Mina Adibi
A-10-1226-2	Fractionation of Oligo(1-decene) oil synthesized via AlCl ₃ /H ₂ O system	Ms amene rahbar, Dr naeimeh bahri-laleh, Dr mehdi nekoomanesh
A-10-540-1	Synthesis of poly (N-isopropyl acrylamide)	Ebrahim Hosseinialvand, Dr Mohammadtaghi khorasani
A-10-1785-1	Investigation of cobalt-mediated radical polymerization of vinyl acetate with cobalt(II)naphthenate	arash Mohammad yari, DR. Mohammad Ali Semsarzadeh
A-10-1794-1	Synthesis of poly(acrylamide-aniline) hydrogel with semi-interpenetrating network's structure	Mahsa Hatami, Dr Saeed Pourmahdian, Dr Ezeddin Mohajerani, Reza Taheri Ghahirizjan
A-10-1780-1	The Process of Fabricating selected-shape Microparticles with narrow size distribution via Photopolymerization Method	Mr mohamadreza mahmoudian, dr fatemeh goharpey, dr morteza behzadnasab, dr majid haghgoo
A-10-397-4	Synthesis and characterization of anionic polymerized polystyrene	Mr mohammad reza jozaghkar, dr farshid ziaee

A-10-397-5	Effect of molecular weight on the thermal behavior of anionic polymerized polystyrene	Mr mohammad reza jozaghkar, Dr farshid ziaee
A-10-1783-2	Synthesis and characterization of core-shell silica-encapsulated polystyrene nanocomposite latex via in-situ emulsion polymerization	Seyed Mohammad Seyed Hosseini, Mohsen Shahrousvand, Mohsen Hajikhani, Mohammad Shahrousvand
A-10-370-5	Preparation and Characterization of Laser Jet Printer Toner particles by Emulsion Polymerization Method	Bahareh Babaei, Mohsen Najafi, Ataee Fard Maryam
A-10-1231-3	Synthesis of Waterborne Polyurethanes based on Acrylate Monomers	Hengameh Honarkar
A-10-1792-2	In-situ Synthesis and CO ₂ separation properties of polyvinyl acetate/HNT nanocomposite membrane	nima pakzad, dr. mohammad ali semsarzadeh, dr. mahdi abdollahi
A-10-1055-2	Determination of the curing degree of thermoset polyimide at different temperatures by FT-IR spectroscopy	hassan fattahi, masood mohammadi nik, mehrzad mortazaiee
A-10-1699-1	Fabrication of Conducting Nanocomposites via Electropolymerization for Neural Prostheses	Majid Nasrollahi

Seminar Participants

11,12 November 2020, TMU, Tehran, Iran

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