



# ISPST 2024

16<sup>th</sup> International Seminar on

**Polymer**

Science & Technology

Tabriz, Iran

**Sahand University of Technology**

7-9 September 2024

<p>Friday, September 6, 2024</p>	<p>14:00 – 18:00</p>	<p style="text-align: center;"><b>Registration</b></p>								
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Saturday, September 7, 2024</b></p>						<p>08:30 – 09:30</p>	<p style="text-align: center;"><b>Opening Ceremony</b></p>			
						<p>09:30 – 10:20</p>	<p style="text-align: center;"><b>Plenary: Data-Driven Polymer Design (Prof. Naser Mohammadi)</b> Chairperson: Prof. B. Pourabbas</p>			
						<p>10:20 – 10:40</p>	<p style="text-align: center;"><b>Break</b></p>			
						<p><b>Time</b></p>	<p style="text-align: center;"><b>Hall 1</b> Chairpersons: Prof. M. Salami Kalejahi and Prof. F. Afshar</p>	<p style="text-align: center;"><b>Hall 2</b> Chairpersons: Dr. S. Talebi and Prof. N. Golashan Ebrahimi</p>	<p style="text-align: center;"><b>Hall 3</b> Chairpersons: Prof. M. Salami Hoseini and Prof. M. Razzaghi</p>	<p style="text-align: center;"><b>Hall 4</b> Chairpersons: Dr. M. Ghasemi and Prof. A. Bahramian</p>
						<p>10:40 – 11:10</p>	<p style="text-align: center;"><b>Keynote:</b> Chromic Polymers: A Pathway to Smart Lifestyle <b>Prof. H. Roughani Mamaqani</b></p>	<p style="text-align: center;"><b>Keynote:</b> Reactive Core-Shell Particles Towards Ultratoughening of Poly(Lactic Acid) <b>Prof. M. K. Razavi Aghjeh</b></p>	<p style="text-align: center;"><b>Keynote:</b> Polymer Coating Corrosion Protection Advancement Leveraging a Hybrid Organic-Inorganic Pigment: Experimental and Machine Learning Simulation <b>Dr. M. Mahdavian</b></p>	<p style="text-align: center;"><b>Keynote:</b> Chemistry and Technology of Polyester Polyols for Polyurethane <b>Dr. M. Salehi</b></p>
						<p>11:10 – 11:40</p>	<p style="text-align: center;"><b>Keynote:</b> Recent Trends in the Production of Low Viscosity PIBs Using Green and Sustainable Systems <b>Prof. M. Nekoomanesh</b></p>	<p style="text-align: center;"><b>Keynote:</b> The Progress in the Development of PLA/PBAT Blend Systems <b>Dr. M. R. Nofar</b></p>	<p style="text-align: center;"><b>Keynote:</b> DPD Modeling of Stimuli-Responsive Polymeric Molecular Brushes <b>Dr. M. Meran</b></p>	<p style="text-align: center;"><b>Keynote:</b> Energy Management and Sustainability Achievements Using Phase Change Materials (PCMs) (Applications of Smart Materials in Environmental and Green Technology) <b>Prof. S. M. Sadrameli</b></p>

**Saturday, September 7,  
2024**

11:40 - 12:00	<b>ispst16-05560447</b> <u>Mastaneh Norouzi</u> , Ebrahim Ahmadi, Zahra Mohammadnia, Nosratollah Mahmoodi	<b>ispst16-02500187</b> <u>Reza Poorghasemi Astaneh</u> , Yousef Jahani, Masumeh Masoudi	<b>ispst16-02850332</b> Seyed Mohammad Hossein Hosseini, Ramshe, <u>Alireza Sharif</u>	<b>ispst16-04070603</b> Farzaneh Sheikhi, Mohammad Imani, <u>Soheil Dariushi</u>
12:00 - 12:20	<b>ispst16-03590448</b> <u>Masoumeh Kianfar</u> , Mir saeed seyed dorraji, Mohammad hosein rasoulifard, Sohrab rahmani	<b>ispst16-01290655</b> <u>Amin Kamkar</u> , Hamid Garmabi	<b>ispst16-06540602</b> <u>Mohadeseh Nazouri</u> , Hadi Taghizadeh, Iman Zoljanahi Oskui	<b>ispst16-06880678</b> Hoda Mahjub, <u>Melika</u> <u>Akbarinejad</u> , Naser mohamadi, Seyed Reza Ghaffarian
12:20 - 12:40	<b>ispst16-06510762</b> <u>Sajjad Mirfaeghi</u> , Saeedeh Mazinani, Farhad Sharif, Mostafa Ahmadi	<b>ispst16-02430210</b> <u>Mahtab Rahimi</u> , Mojgan Zandi, Morteza Behzadnasab, Mohammad Pezeshki-Modaress	<b>ispst16-02250104</b> <u>Bardia Afsordeh</u> , Hadi Shirali	<b>ispst16-02570550</b> <u>Tohid Jalili</u> , Seyed Morteza Ghasemi
12:40 – 14:00	<b>Prayer and Lunch</b>			

Saturday, September 7, 2024

14:00 – 14:50	<b>Plenary: Polymer Crystallization (Prof. Gunter Reiter)</b> <b>Chairperson: Dr. M. Alizadeh</b>			
<b>Time</b>	<b>Hall 1</b> Chairpersons: Dr. M. Alizadeh and Prof. N. Mohammadi	<b>Hall 2</b> Chairpersons: Prof. K. Razavi and Prof. H. Nazokdast	<b>Hall 3</b> Chairpersons: Dr. B. Behjat and Dr. A. Sharif	<b>Hall 4</b> Chairpersons: Dr. M. Nasiri and Dr. M. Ghahramani
15:00 – 15:30	<b>Keynote:</b> Polymer-Graphene Nanocomposites for Energy Conversion and Storage Applications <b>Prof. M. Razzaghi</b>	<b>Keynote:</b> ----- <b>Prof. F. Goharpey</b>	<b>Keynote:</b> Rheology of Extensional Flow <b>Prof. N. Golshan Ebrahimi</b>	<b>Keynote:</b> ----- <b>Prof. E. Gillies</b>
15:30 - 15:50	<b>ispst16-06230573</b>  <u>Bashir Behjat</u> , Hadi Hosseinizadeh, shabnam Ebrahimi	<b>ispst16-07310793</b>  <u>Amir Malmir</u> , Hossein Nazockdast, Fatemeh Goharpey	<b>ispst16-01000741</b>  <u>Hamidreza Jamshidi</u> , Mahdi Salami hosseini, Yaser Karimi	<b>ispst16-01190033</b>  <u>Mihriban Sari</u> , Kaan Aksoy, Abdulvahap Cifci
15:50 - 16:10	<b>ispst16-07700881</b>  Mir Karim Razavi Aghjeh, <u>Mohammad Shayan-Asenjan</u> , Mona Asl Farshbaf, Akram Tavakoli Araghi, Mostafa Rezaei	<b>ispst16-03170153</b>  <u>Ali Chanaani</u> , Yasin Kaykha, Mahmoud Heydari	<b>ispst16-03800276</b>  Omid Khodabandelou, Gholamreza Pircheraghi, <u>Rohollah Shamizadeh</u>	<b>ispst16-00830304</b>  <u>Alireza Zargar Shabestari</u> , Mehdi Mohammadi, Amirhasan Yaghoubi Roshan, Naser Mohammadi
16:10 – 16:30	<b>Break</b>			

# Saturday, September 7, 2024

Time	Hall 1 Chairpersons: Prof. A. Khoshfetrat and Prof. H. Yeganeh	Hall 2 Chairpersons: Dr. Simjoo and Prof. F. Goharpey	Hall 3 Chairpersons: Dr. Z. Khobi Arani and Prof. G. Pircheraghi	Hall 4 Chairpersons: Prof. H. Roughani and Dr. Maghsoud
16:30 – 17:00	<b>Keynote:</b> Polymers for Biomedical Engineering <b>Dr. H. Hosseinkhani</b>	<b>Keynote:</b> Rheology of Self-Assembled Block Copolymers Solutions <b>Dr. R. Foudazi</b>	<b>Keynote:</b> Charge-Driven Colloidal Stability Assembly of Spherical and Discotic Nanoparticles <b>Dr. N. Taheri-Qazvini</b>	<b>Keynote:</b> Advancing Sustainable Solvent-Borne Paints and Coatings through Fundamental Polymerization Studies <b>Prof. M. Soroush</b>
17:00 - 17:20	ispst16-05510555 <u>Alireza Alikhah Shirayeh,</u> Hanieh Shaki	ispst16-04080469 <u>Vahid Movahednia,</u> Yousef Jahani	ispst16-00370640 <u>Ehsan Ghiasy Nick,</u> Mohsen Shahrousvand	ispst16-07750889 <u>Alireza Dadkhah</u> Janqor, Mostafa Salehi, Hossein Kuhi, Reza Pashaei Sarnagi
17:20 - 17:40	ispst16-07750888 <u>Reza Pashaei Sarnagi,</u> Mostafa Salehi, Hossein Kuhi, Alireza Dadkhah Janqor	ispst16-06030606 <u>Abbas Sheikh</u>	ispst16-02490090 <u>Mozhgan Hatami,</u> Gholam-Reza Nejabat, Mohammad Hossein Jazebizadeh	ispst16-06110828 <u>Mahnaz Naserian khalilabad,</u> Zahra Maghsoud
17:40 - 18:00	ispst16-01530028 Saeid Maghami, Moslem Tavakol, <u>Mohammad Hasan Sharifi,</u> Mehdi Simiari	ispst16-07870899 <u>Sara Tarashi,</u> Kosar Alavi, Hossein Nazockdast	ispst16-02850386 Abbas Shirdast, Alireza Sharif	ispst16-01950150 <u>Mahya Liri,</u> Hossein Yahyaei, Hesam Makki

Sunday, September 8, 2024

Time	Hall 1 Chairpersons: Dr. M. Ghasemi and Dr. M. Ghahramani	Hall 2 Chairpersons: Dr. H. Niromand ans Prof. H. Yeganeh	Hall 3 Chairpersons: Dr. S. Foroughirad and Prof. M. Abdollahi
08:30 – 09:00	<b>Keynote:</b> Polymer Power: Revolutionizing water, Energy and Environment <b>Dr. M. Alizadehfard</b>	<b>Keynote:</b> Modified Natural Polymer- Based Hydrogels as Efficient Scaffolds for Tissue Engineering Applications <b>Prof. A. Khoshfetrat</b>	<b>Keynote:</b> Energy-Saving Innovations in Paint & Coatings Technologies <b>Prof. Z. Ranjbar</b>
09:00 – 09:30	<b>Keynote:</b> The Potential of Polymers in Improvement of Processes and Environmental Pollution Prevention <b>Prof. A. Olad</b>	<b>Keynote:</b> The Role of Stimuli Responsive Polymers in Enhancing Cancer Treatment Efficacy <b>Dr. H. E. Kulahli</b>	<b>Keynote:</b> Advanced Coating and Inkjet Inks Technology Innovations for Modern Applications <b>Dr. A. R. Mooghaddam</b>
09:30 - 09:50	<b>ispst16-05020393</b> <u>Sahar Abdollahi Baghban</u>	<b>ispst16-07300894</b> <u>Leila Behboodpour, Floria Adeli,</u> <u>Handan Emisoglu-Kulahi,</u> <u>Mehdi Meran, Farhang Abbasi</u>	<b>ispst16-06660658</b> <u>Mansour Fathi, Azam Ghadami</u>
09:50 - 10:10	<b>ispst16-04640449</b> <u>Parastoo Pische, Reza Darvishi,</u> <u>Mohammad Vaziri</u>	<b>ispst16-06240543</b> <u>Mohammad Nassajpour</u> <u>Esfahani, Peiman Mosaddegh,</u> <u>Saied Nouri Khorasani</u>	<b>ispst16-05390422</b> <u>Ali Ahmadi-Dehnoei, Somayeh</u> <u>Ghasemirad</u>
10:10 - 10:30	<b>ispst16-07720886</b> <u>Ehsan Vaziri, Mohammad Sadegh</u> <u>Mousapour, Mohammad Simjoo</u>	<b>ispst16-01460125</b> <u>Moslem Sadeghi, Younes</u> <u>Habibi, Tohid Bohlool, Zahra</u> <u>Mohamadnia, Mastaneh</u> <u>Norouzi, Nasser Nikfarjam</u>	<b>ispst16-05760461</b> <u>Sahar Foroughirad</u>

Sunday, September 8, 2024

10:30 - 10:50	ispst16-01030082 <u>Mohammad Alizadehfard</u>	<u>Dr. S. Ali B. Khaghani</u>	ispst16-01170502 <u>Parsa Shokranifar, Soheil Dariushi, Ali Zolfagharian, Sarah Rajabi, Shadab Bagheri-Khoulenjani</u>
10:50 – 11:10	<b>Break</b>		
<b>Time</b>	<b>Hall 1</b> Chairpersons: Prof. M. Salami Kalejahi and Prof. A. Olad	<b>Hall 2</b> Chairpersons: Dr. Hadi Taghizadeh and Dr. Sh. Bagheri	<b>Hall 3</b> Chairpersons: Dr. S. Talebi and Prof. Z. Ranjbar
11:10 – 11:40	<b>Keynote:</b> Energy Harvesting and Storage at Nanoscale <b>Dr. M. Abolhasani</b>	<b>Keynote:</b> Hydrophobically–Modified Scleroglucan: A Biopolymer with Tuned Structural, Rheological and Adsorption Characteristics <b>Dr. A. Sharif</b>	<b>Keynote:</b> ----- <b>Prof. M. Rafizadeh</b>
11:40 - 12:00	ispst16-02220064 <u>Mahsa Khayambashi, Azadeh Seifi, Ahmad Reza Bahramian</u>	ispst16-04420394 <u>Azita Jahanian, Samahe Sadjadi</u>	ispst16-03030166 <u>Amir-hamzeh Golbaz, Reyhane Shahpouri, Farkhondeh Hemmati, Jamshid Mohammadi-Roshandeh</u>
12:00 - 12:20	ispst16-05450504 <u>Shokouh Ahmadvand, Nadereh Golshan Ebrahimi, Ahmadreza Bahramian</u>	ispst16-04040295 <u>Mohsen Ghiasvand, Abas Kebritchi, Jafar E. Jam, Hamid Fazeli</u>	ispst16-03860268 <u>Alireza Naeimi, Amir Rezvani Moghaddam</u>
12:20 – 12:40	ispst16-07600858 <u>Hossein Abdollahi-Esfahlani, Saeed Pourmahdian</u>	ispst16-04970427 <u>Ali Nabipour-Azade, Shervin Ahmadi, Hassan Arabi</u>	ispst16-02200708 <u>Atefeh Nejadebrahim, Morteza Ebrahimi, Xavier Allonas</u>
12:40 – 14:00	<b>Prayer and Lunch</b>		

Sunday, September 8, 2024

Time	Hall 1 Chairpersons: Prof. M. Salami Hosseini and Dr. Ghaffari	Hall 2 Chairpersons: Dr. S. Talebi and Prof. M. H. Beheshty	Hall 3 Chairpersons: Prof. H. Roughani and Prof. A. Ramazani
14:00 – 14:30	<b>Keynote:</b> Aerogels in Energy: State of Art and New Challenges <b>Prof. A. Bahramian</b>	<b>Keynote:</b> Harnessing Polyphenol-Based Carbon Nanosheets for Biomedical Advances <b>Dr. N. Nikfarjam</b>	<b>Keynote:</b> Diene-based liquid rubbers: Synthesis, applications and perspectives <b>Dr. M. Abdollahi</b>
14:30 – 15:00	<b>Keynote:</b> Polymers in Li-ion Batteries <b>Prof. M. Salami-Kalajahi</b>	<b>Keynote:</b> Bio-Nanotechnology in Regenerative Medicine <b>Dr. S.A. Behrouz Khaghani</b>	<b>Keynote:</b> Tailoring polyolefins features via changing microstructure of Ziegler-Natta catalysts <b>Prof. N. Bahri</b>
15:00 - 15:20	ispst16-01770122 <u>Ameneh Taghavi Kahag</u>	ispst16-07150768 <u>Behzad Eidivandi, Mojdeh Mirzarazi, zahra Mohamadnia, Naser Nikfarjam</u>	ispst16-03670211 <u>Ali Charoosaei, Vahid Haddadi-Asl, Elahe Abdollahi</u>
15:30 – 16:20	<b>Plenary: Thermoplastic Formulation for Additive Manufacturing (Prof M. Kontopolou)</b> <b>Chairperson: Prof. M. Rezaei</b>		
16:30 - 20:30	<b>Tabriz Tourism Tour</b>		



Monday, September 9, 2024

Time	<b>Hall 1</b> Chairpersons: Dr. H. Taghizadeh and Dr. Sh. Bagheri	<b>Hall 2</b> Chairpersons: Prof. H. Roughani and Dr. Abolhasani	<b>Hall 3</b> Chairpersons: Dr. A. Rezvani and Prof. M. Nekoomanesh
08:30 – 09:00	<b>Keynote:</b> Nonisocyanate-Polyurethane-Based Ionene Nanocarrier for Cancer Therapy <b>Prof. H. Yeganeh</b>	<b>Keynote:</b> Polymer Dots: Synthesis, Properties and Applications <b>Prof. N. Arsalani</b>	<b>Keynote:</b> Effect of Stabilization and Carbonization Condition of Acrylonitrile Electrospun Fibers and Mats on Structure of Produced Nano Carbon Fibers and Nano Carbon Structures <b>Prof. A. Ramazani</b>
09:00 – 09:30	<b>Keynote:</b> Full Regeneration of Lost Osseous Tissue Is Possible! An Executive Study from Laboratory to Human Clinical Trial <b>Dr. F. Hejazi</b>	<b>Keynote:</b> Spiropyran-Based Photoresponsive Polymers in Stimuli-Responsive Devices <b>Dr. Alireza Mahdavian</b>	<b>Keynote:</b> Carbon Fiber Epoxy Advanced Prepregs for Making Advanced Composite Parts <b>Prof. M. H. Beheshty</b>
09:30 - 09:50	<b>ispst16-07370851</b>  <u>Ahmadreza Tabbakhi-Mamaqani</u> , Zeinab Hashemi Torkamani, Mohammad Hossein Akbari Nasser, Reza Lotfi Mayan Sofla	<b>ispst16-07450822</b>  <u>Arman Motalebnejad-Mamaqani</u> , Milad Babazadeh-Mamaqani, Hossein Roghani-Mamaqani, Mir Karim Razavi Aghjeh, Mehdi Salami-Kalajahi	<b>ispst16-04730402</b>  <u>Ali Hamedani</u> , Sajjad Moghanlou, Asma Feyzi, Mostafa Rezaei
09:50 - 10:10	<b>ispst16-05680589</b>  <u>Samira Jafarzadeh-Holagh</u> , Ebrahim Vasheghani Farahani, Jafar Ai, Sameereh Hashemi-Najafabadi	<b>ispst16-06700639</b>  Hossein Alidaei-Sharif, <u>Keyvan Sahandi-Zangabad</u> , Hossein Roghani-Mamaqani	<b>ispst16-03950272</b>  <u>Ali Shahnazari</u> , Gholamreza Pircheraghi, Mohammadreza Shojaei

**Monday, September 9, 2024**

10:10 - 10:30	<b>ispst16-01620692</b> <u>Parsa Mousavi</u> , Hamid Yeganeh	<b>ispst16-07540842</b> <u>Katayoun Masoumi</u> , Azar Sabri, Hanieh Mardani, Hossein Roghani-Mamaqani, Mehdi Salami-Kalajahi	<b>ispst16-07800901</b> <u>Farnaz Farbod</u> , Fatemeh Goharpey, Mehdi Salami-Kalajahi
10:30 - 10:50	<b>ispst16-02610140</b> <u>Sevda Zaki-Germi</u> , Nasser Nikfarjam	<b>ispst16-05210482</b> <u>Nahid Salimiyan</u> , Roya Sedghi	<b>ispst16-02700115</b> <u>MohammadHossein Karami</u> , Majid Abdouss, Behzad Aghabarari
10:50 - 11:10	<b>Break</b>		
<b>Time</b>	<b>Hall 1</b> Chairpersons: <u>Dr. M. Alizadeh</u> and <u>Dr. F. Hejazi</u>	<b>Hall 2</b> Chairpersons: <u>Dr. M. Ghasmi</u> and <u>Prof. S. M. Sadrameli</u>	<b>Hall 3</b> Chairpersons: <u>A. Akbari</u> and <u>Dr. M. Alizadehfard</u>
11:10 - 11:40	<b>Keynote:</b> <b>Dr. Z. Onur Chalishkaner</b> Usage of Polymeric Materials in Stem Cell Science	<b>Keynote:</b> <b>Prof. D. Ekinici</b> Electrochemical Production of Carbon-Based Materials for Energy Storage Application	<b>Keynote:</b> <b>Dr. J. Wang</b> From Multiphase Polymer Blends to Core-Sheath Nanofibrillar Composites and Hierarchically Porous Materials
11:40 - 12:00	<b>Prof. F. Abbasi</b> Surface manipulation of polystyrene via chemistry and physics	<b>ispst16-06360619</b> <u>Maral Ghahramani</u> , Mehrnaz Khosravinejhad	<b>ispst16-06470857</b> Maryam Jalili Marand, <u>Samal Babanzadeh</u> , Shahram Mehdipour-Ataei
12:00 - 12:20	<b>ispst16-02240191</b> <u>Maryam Rajabzadeh-Khosroshhi</u> , Ali Baradar Khoshfetrat	<b>ispst16-06090753</b> <u>Ali Jafari</u> , Morteza Nasiri	<b>ispst16-02090314</b> Ali akbar Babalou, <u>Behnam Rezazadeh</u>

**Monday, September  
9, 2024**

12:20 – 12:40	<b>ispst16-07080720</b> <u>Shima Ghafari</u> , Marziye Golshan, Mehdi Salami-Kalajahi, Kiyumars Jalili	<b>ispst16-08810912</b> <u>P. Katbab</u> , S. Jafari , A. A. Katbab	<b>ispst16-08830919</b> <u>Fatima BENBELAID</u> , Boubkeur Seddik BOUAKAZ, Abderrahmane HABI, Abdelhai AOUAITIA
12:40 – 14:00	<b>Prayer and Lunch</b>		
14:00 – 14:50	<b>Plenary: Precision Nanostructure and Polymer Engineering (Prof. Rachel O'Reilly)</b> <b>Chairperson: Prof. H. Roghani-Mamaqani</b>		
15:00 – 17:30	<b>Closing Ceremony</b>		