



TURKISH
CHEMICAL SOCIETY

İTÜ



I U P A C
International Union of Pure and Applied Chemistry

Bridging Continents & Bridging Molecules

MACRO 2016

World Polymer Congress Istanbul 17-21 July

46th IUPAC WORLD POLYMER CONGRESS

July 17-21, 2016 / Istanbul / Turkey

Halic Congress Center

SCIENTIFIC PROGRAM

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Bridging Continents & Bridging Molecules

MACRS 2016

World Polymer Congress Istanbul 17-21 July

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Dear Participants

On behalf of the Turkish Chemical Society, I am pleased to welcome you to Istanbul for the 46th IUPAC World Polymer Congress (MACRO 2016), sponsored by the International Union of Pure and Applied Chemistry (IUPAC). The MACRO 2016 continues the MACRO tradition of high-quality and broad international participation in all areas of polymer science and technology and I am very happy to be hosting this event in Istanbul. Our scientific program is thus rich and varied with 7 plenary and 100 invited talks and around 781 technical papers split into 1 award session, 17 parallel oral sessions and 2 poster sessions. Besides, there are 1 workshop and several social programs. Warm thanks to the Scientific Committee who did a great job in assembling a top-notch scientific program.

I sincerely hope that the presentations and discussions during the congress will lead to further academic development and greater research collaboration in the worldwide. Moreover, this congress will provide an opportunity for young scientists to meet with the authorities in their certain fields and to allow the passing-on of research experiences from old generation to next generation. I wish all the participants fruitful deliberations and believe that you will find the congress and your stay in Istanbul both enjoyable and valuable. Istanbul is an obvious choice to host this congress since its location lies at the crossroads of many cultures and two continents. Istanbul also has great touristic attractions with its breathtaking views, historical monuments, museums, restaurants and shopping centers. I also hope that the congress shall further advance polymer science and technology for life and the future.

I wish you a pleasant stay in Istanbul, our beautiful city.

Prof. Yusuf Yagci

Istanbul Technical University

Chairman of the MACRO2016

Conference Venue

HALIC CONGRESS CENTER

Address: Sütlüce Mah., Eski Karaağaç

Cad. No:19, 34445 Beyoğlu/İstanbul

Telephone: +90 (0212) 311 1111

Official Language:

The official language of the conference is English. No simultaneous translation will be provided.

Conference Venue Facilities

Halls

Congress meeting halls and registration desk located in Halic Congress Center.

HALIC CONGRESS CENTER

A Block - Ground Floor:

Sadabad Balat

Haskoy

Marmara

Kasimpasa 1

Kasimpasa 2

Kasimpasa 3

Kasimpasa 4

Kasimpasa 5

Cibali 1

Cibali 2

Sadabad

Registration

Registration Desk (Halic Congress Center) opening hours

July 17, 2016 09:00-20:00

July 18, 2016 09:00-20:00

July 19, 2016 09:00-20:00

July 20, 2016 09:00-20:00

Name Badge

All participants should wear their name badge visible at all times in order to guarantee access to the scientific programme sessions, lunch area and to the social events.

Conference Certificate

You are welcome to print your personalized certificate of attendance at the Registration Desk.

Conference Assistants

In addition to the staff at the Conference Information Desk, a number of conference participants available all over the conference area are ready to help participants. They are wearing special T-shirts for easy recognition.

Audiovisual Equipment

All meeting rooms and auditoria are equipped with standard AV – equipment including PC, projector and screen. Conference assistants/volunteers will assist speakers with uploading of presentations. Please note that support for MAC computers will not be available.

Conference Proceedings

Participants will receive the collection of the Conference Proceedings on a CD.

Poster Sessions

All poster sessions will take place in the Poster Area located in Halic Congress Center.

Exhibition

The exhibition area is located in Halic Congress Center Kuleli Hall.

July 17, 2016 16:30-19:00

July 18, 2016 09:00-20:00

July 19, 2016 09:00-20:00

July 20, 2016 09:00-20:00

Lunch & Coffee Breaks

Lunches will be served in the foyer in Halic Congress Center.

Accessibility for Wheelchairs

Elevator is available. Personal assistance is provided too.

ATM/Cash Machines

It is easy to find the branches of major banks in city centre. You can have access to the ATM/Cash Machines there.

Accommodation & Tourist Information Desk

The accommodation and tour information desk is located in Registration Desk.

Language in the country

The official language is Turkish. English is widely spoken in major cities and especially in İstanbul.

Currency

TL (Turkish Lira) 1 Euro approximately equals to 3,2 Turkish Liras. 1 USD approximately equals to 2,8 Turkish Liras.

Sales Tax

Sales tax (VAT) is included in prices quoted. For non E.U. residents, tax free shopping schemes are available in many shops, which give substantial savings to visitors.

Shopping

Fine leather goods, golden and silver jewellery and textiles are considered excellent buys in İstanbul.

The pedestrian streets of the city centre, "Taksim Square", Nişantaşı and "Grand Bazaar" in the old town Shops are open from 9:00 to 20:00 Monday to Sunday except Grand Bazaar (closed on Sundays). Major shopping malls stay open from 10:00 to 22:00, including weekends. Some of the famous shopping malls are Demirdöken, City's, Kanyon, İstinye Park and Cevahir.

Time Zone

GMT+2; CET +1; and EST (US -East) +7

Business Hours

The workweek in Turkey runs from Monday to Friday. Banks, government offices and majority of corporate offices open at 9 AM and close at 5 PM.

Electricity

220 V. European standard round two-pin sockets.

Health Services & Requirements

Cities and major touristic towns have a selection of private inter-national and public hospitals with good standards. With the exception of vaccination certificates for persons coming from areas where yellow fever is endemic, at the present there are no special health requirements.

Smoking

The Turkish law, in accordance with the Regulations in force in the majority of European Countries and the USA, does not allow smoking in any public transportation or in any closed public areas.

Food

As with many Mediterranean nations Turkish food is very healthy, fresh and enjoyable.

Water

It is recommended that you consume bottled water, which is readily and cheaply available.

Communications

Turkey has three GSM operators, all of them offering 3G services and almost 95% coverage over the country. Internet service is available all around the country.

International Dial Code

+90

Local Organising Committee

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 Norma E. Marcovich (Argentina)

1 - Recent Developments in Polymer Synthesis

a) Controlled/Living Polymerization

Co-organizer: Prof. Masami Kamigaito

Coordinator: Prof. Remzi Becer

b) Complex Macromolecular Structures

Co-organizer: Prof. Filip Du Prez

Coordinator: Assoc. Prof. Amitav Sanyal

c) Light-induced Reactions in Polymer Science

Co-organizer: Dr. Xavier Allonas

Coordinator: Assoc. Prof. Binnur Aydogan Temel

d- Condensation Polymerization and Thermoset

Co-organizer: Prof. Tsutomu Yokozawa

Coordinator: Assoc. Prof. Baris Kiskan

2 - Polymer Characterization by New and Combined Techniques

Co-organizer: Prof. Michael Hess

Coordinator: Prof. Levent Demirel

3 - Macromolecules & Nanotechnology

Co-organizer: Prof. Gyula Julius Vancso

Coordinator: Assoc. Prof. Tamer Uyar

4 - Macromolecules in Biotechnology & Medicine

Co-organizer: Prof. Martina Stenzel

Coordinator: Asst. Prof. Muhammet Kahveci

5 - Energy, Optics, & Optoelectronics

Co-organizer: Prof. Levent Toppare

Coordinator: Assoc. Prof. Ali Çirpan

6 - Polymer and Polymer-Based Membranes

Co-organizer: Prof. S. Birgul Tantekin-Ersolmaz

Coordinator: Assoc. Prof. Tuba Erdogan Bedri

7 - Smart and Functional Polymers

Co-organizer: Prof. Richard Hoogenboom

Coordinator: Prof. Faruk Yilmaz

8 - Renewable Resources and Biopolymers

Co-organizer: Prof. Henri Cramail

Coordinator: Assoc. Prof. Huseyin Esen

9 - Polymer Engineering, Processing, and Characterization

Co-organizer: Prof. Mukerrem Cakmak

Coordinator: Assoc. Prof. Ali Durmus

10 - Polymer Physics

Co-organizers: Prof. Dimitris

Vlassopoulos and Kurt Kremer

Coordinator: Asst. Prof. Deniz Ceylan Tuncaboylu

11 - Polymer Education

Co-organizers: Prof. Christopher Ober and Patrick Theato

Coordinator: Assoc. Prof. Mustafa Sözbilir

12 - Industrial Polymers

Co-organizer: Dr. Johan-FGA Jansen (DSM)

Coordinator: Asst. Prof. Huseyin Esen

13 - Porous Polymer and Gels

Co-organizer: Prof. Michael S. Silverstein

Coordinator: Prof. Ali Tuncel

14 - Modeling and Simulation of Polymers

Co-organizer: Prof. Stefano Valdo Meille

Coordinator: Assoc. Prof. Nurcan Tuzun



Krzysztof Matyjaszewski

Carnegie Mellon University, USA

Dr. Krzysztof Matyjaszewski is the J.C. Warner Professor of Natural Sciences at Carnegie Mellon University and served as the head of the Chemistry Department. He has written 17 books, 83 book chapters, over 850 peer-reviewed articles cited more than 68,000 times (one of the three most frequently cited polymer chemists in the world) as well as 48 US and 132 international patents. His research has impacted many, as over 100 postdoctoral fellows and 100 graduate students have been members of his research group. He is the editor of *Progress in Polymer Science*. Dr. Matyjaszewski's research interests include macromolecular engineering; synthesis of well-defined macromolecules via living and controlled polymerizations; homogeneous and heterogeneous catalysis; and the preparation of well-defined polymers and hybrids for optoelectronics, ceramics, and biomedical applications. He discovered Cu-mediated Atom Transfer Radical Polymerization, commercialized in US, Europe, and Japan. Dr. Matyjaszewski received the 2014 Japan National Institute of Materials Science Award, 2012 Maria Curie Medal, 2012 Prize of Société Chimique de France, 2011 Wolf Prize in Chemistry, 2009 Presidential Green Chemistry Challenge Award, and from the American Chemical Society: 2013 North America Science Award, 2011 Hermann Mark Award, 2011 Award in Applied Polymer Science, 2002 Polymer Chemistry Award, and 1995 Creative Polymer Chemistry Award. He was awarded with seven honorary degrees (Ghent, Lodz, Athens, Moscow, Toulouse, Pusan, Paris) and is a member of National Academy of Engineering, Polish Academy of Sciences, and Russian Academy of Sciences and a fellow of National Academy of Inventors.

Controlled Radical Polymerization: from Mechanisms to Applications

Recent years witnessed tremendous progress in various controlled radical polymerization procedures. They employ a dynamic equilibrium between growing free radicals and dormant species. This process enables taming uncontrolled free radical behavior by inserting a dormancy periods of a few seconds or minutes after ca 1 ms activity. Such an intermittent activation route extends life of propagating chains from ca. 1 s to several hours and days. It also permits precise synthesis of macromolecules with complex architecture from small functional molecules as building blocks. Some examples of new initiating and catalytic systems used at ppm amounts for ATRP (atom transfer radical polymerization) will be presented. They open avenues to new block, gradient, graft, star, brush and (hyper)branched functional (co)polymers as well as bioconjugates and organic-inorganic hybrids that find applications as various new advanced functional nanostructured materials.

Keywords: CRP, ATRP, advanced materials



Markus Antonietti

Max Planck Institute, Germany

Markus Antonietti studied Polymer Chemistry in Mainz and was infected with the “polymer virus” already those days. His Habilitation, also in Mainz in 1990, was dealing with microgels and the control of their nanostructure. Since 1993, he is Director of the Max Planck Institute of Colloids and Interfaces. He has published about 650 Papers, which were cited more than 50000 times. His work was honoured at diverse occasions, but he calls it most rewarding that 45 of his former coworkers hold leading professorships, worldwide. His current interests cover porous polymers and carbons, synthesis of novel polymers, green chemistry and Carbon Negative Polymer Materials on the base of biomass, energy storage and artificial Photosynthesis.

Polymer Ionic Liquids: From Green Polymer Chemistry to Stabilizers to Actuators

Markus Antonietti, Jiayin Yuan

*Max Planck Institute of Colloids and Interfaces, Colloid Chemistry Department,
Research Campus Golm, D.14424 Potsdam, Germany
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Polymer Ionic Liquids (PILs) are polymerized version of Ionic Liquids. They are more than only polyelectrolytes: due to charge frustration, many of them are liquid in the bulk, are processable, and combine simply polymer properties with ionic liquid character.

In this talk I will present some of their special characteristics, talk about self-organization and delineate the extraordinary potential of PILs to stabilize very different kind of interfaces in a highly efficient fashion. I will also show that ionic liquid monomers might not necessarily stay exotic species, but can be made by principles of green chemistry from natural resources

In a second part of the talk, I will report on novel material processes enabled by PILs, namely porosion, stimulated carbonization, as well as some work on sensors and artificial muscles based on autoporous PIL membranes.

Literature

1. Poly(ionic liquid)s: Polymers expanding classical property profiles (Review), Jiayin Yuan, Markus Antonietti, POLYMER 52, 1469-1482 (2011)
2. Poly(ionic liquid)s: An update (Update-Review), Jiayin Yuan, David Mecerreyes, Markus Antonietti, Progress in Polymer Science 38, 1009-1036 (2013)

Keywords: Polymer Stabilizer, Ionic Liquid, Self Organisation, Actuator



Michael Buback (Bob Stepto Lecturer)

University of Goettingen, Germany

Michael Buback studied chemistry at the University of Karlsruhe, where he received his PhD in 1972. After Habilitation in 1978 he was awarded a Heisenberg Fellowship by the German Science Foundation (DFG). He became Professor for Applied Physical Chemistry at the University of Göttingen in 1981, Full Professor for Technical and Macromolecular Chemistry in 1995, and Member of the Göttingen Academy of Sciences in 2000. Michael Buback received the Dechema Award, the Bunsen-Denk Münze, and the Herman F. Mark Medal. Michael Buback

has been a member of the Academy of Sciences in Göttingen since 2000. In January 2008 he accepted the position of the vice president of the Polymer Division of the International Union of Pure and Applied Chemistry (IUPAC). He has published over 300 peer-reviewed papers. His research interests cover the entire field of radical polymerization with a focus on detailed kinetic studies via pulsed laser initiation carried out in conjunction with highly time-resolved IR, near-IR, and EPR spectroscopy. Further activities address the kinetics and the phase behaviour of chemical processes in extended ranges of pressure and temperature. Special expertise centers around the quantitative monitoring, via online vibrational spectroscopy, of species occurring during chemical transformations at pressures up to 7000 bar.

Radical Polymerization Kinetics and Mechanisms studied by Pulsed Laser Initiation in Conjunction with Highly Time-Resolved EPR Spectroscopy

The accurate knowledge of the relevant rate coefficients, e.g., for propagation, k_p , and termination, k_t , is mandatory for the understanding and simulation of conventional and reversible deactivation radical polymerizations (RDRPs). Such information has become available by pulsed-laser polymerization (PLP) techniques, such as PLP-SEC. The most recent and powerful PLP method is SP-PLP-EPR, which combines instantaneous production of an intense burst of radicals by a single laser pulse (SP) with subsequent time-resolved detection of the type and concentration of radicals. EPR spectroscopy is unrivalled for such detailed investigations, as the reactive species, i.e., the radicals are directly monitored with a time resolution of microseconds.

Laser-pulse techniques have in common that the radical chain length, i , increases linearly with time t after pulsing. Thus SP-PLP-EPR is perfectly suited for investigations into chain-length-dependent (CLD) termination. The composite model introduced by the Russell group allows for the adequate representation of the termination rate coefficient, $k_{t,i}$, for two radicals of identical chain length, i . From an SP-PLP-EPR trace, also k_p may be deduced which is advantageous in case of slowly terminating monomers, where the PLP-SEC method may run into difficulties.

The SP-PLP-EPR technique also allows for quantitative kinetic studies into systems with more than one type of radicals being present. This is the case, e.g., with acrylates and acrylamide, where secondary propagating radicals are transformed into tertiary midchain radicals via an intramolecular 1,5-hydrogen transfer (backbiting) reaction. Both radicals have clearly different EPR spectra and kinetic properties.

The SP-PLP-EPR method is also perfectly suited for elucidating the kinetics and mechanism of RDRPs, such as RAFT and ATRP, as will be illustrated by studies into iron-mediated ATRP and into dithiobenzoate-mediated RAFT polymerization.

Keywords: Polymerization Kinetics, Time-Resolved EPR Spectroscopy, Pulsed Laser Initiation



Kristi S. Anseth

University of Colorado Boulder, USA

Kristi S. Anseth earned her B.S. degree from Purdue University in 1992 and her Ph.D. degree from the University of Colorado in 1994. She then conducted post-doctoral research at MIT as an NIH fellow and subsequently joined the Department of Chemical and Biological Engineering at the University of Colorado at Boulder as an Assistant Professor in 1996. Dr. Anseth is presently a Howard Hughes Medical Institute Investigator and Distinguished Professor of Chemical and Biological Engineering. Her research interests lie at the interface between biology and engineering where she designs new biomaterials

for applications in drug delivery and regenerative medicine. Dr. Anseth's research group has published over 200 publications in peer-reviewed journals and presented over 180 invited lectures in the fields of biomaterials and tissue engineering. She was the first engineer to be named a Howard Hughes Medical Institute Investigator and received the Alan T. Waterman Award, the highest award of the National Science Foundation for demonstrated exceptional individual achievement in scientific or engineering research. In 2009, she was elected a member of the National Academy of Engineering and the Institute of Medicine. Dr. Anseth is also a dedicated teacher, who has received four University Awards related to her teaching, as well as the American Society for Engineering Education's Curtis W. McGraw Award. Dr. Anseth is a Fellow of the American Association for the Advancement of Science and the American Institute for Medical and Biological Engineering. She serves on the editorial boards or as associate editor of *Biomacromolecules*, *Journal of Biomedical Materials Research — Part A*, *Acta Biomaterialia*, *Progress in Materials Science*, and *Biotechnology & Bioengineering*.

Hydrogels as dynamic cell niches through photo-click and photo-clip reactions

Our group is interested in the development of biomaterials to serve as in vitro cell culture systems and decipher critical extracellular matrix (ECM) signals that are relevant in tissue development, regeneration, and disease. Specifically, we design synthetic ECM analogs that capture key features of the unique chemistry and physical properties of a cell's niche—an environment that is not only tissue specific, but can be strikingly heterogeneous and dynamic. Unique to our approach is the ability to create cell-laden matrices in three-dimensional space in which the matrix properties can be changed on demand—so-called 4D biology. Here, our group has focused on the development of photochemical reactions to create tunable cell-laden matrices, for example, the thiol-ene photo-click reaction and complementary photo-clip reactions to introduce and remove biological signals from a complex milieu. These photochemical reactions not only proceed rapidly and with high specificity, but are bio-orthogonal, spatiotemporally controlled, and cytocompatible. This talk will illustrate how we leverage these chemistries to create biologically responsive hydrogel matrices, and employ them to study the effects of matricellular signaling on diverse cellular functions and processes. For example, we exploit peptide-crosslinked PEG hydrogels to encapsulate human mesenchymal stem cells (hMSCs) and study how matrix density, degradability, elasticity, and adhesivity influence migration in real time. Beyond simply observing cells, we also apply microrheological techniques to measure local gel degradation, and reporter molecules to detect local cell activity in situ (e.g., protease activity, apoptosis). Finally, results will demonstrate that these photo-click and -clip reactions are compatible with protein encapsulation and conjugation while maintaining bioactivity for cellular signaling.

Keywords: hydrogels, biomaterials, photochemistry, thiol-ene, stem cells



Nikos Hadjichristidis

KAUST, Saudi Arabia

The research of Prof. Hadjichristidis focuses mainly on the synthesis of novel homopolymers, and copolymers with well-defined complex macromolecular architectures (star, comb, cyclic, dendritic, etc.) by using anionic polymerization (AP) high vacuum techniques, as well as combination of AP with other polymerization methodologies (polyhomologation, ROP, ROMP, ATRP, etc). These polymers are ideal models for checking the theory, understanding and improving the performance of industrial polymers (e.g. polyethylene, polystyrene based thermoplastic elastomers) and are potential candidates for high-tech applications (e.g. nanolithography, drug delivery, high temperature membranes). He has published more than 450 scientific papers in referred scientific journals, 19 patents, is the editor of three books and author of one book on "Block Copolymers" (Wiley 2003). He has received many awards including: The American Chemical Society (ACS) National Award for Polymer Chemistry (2015); the ACS, Rubber Division Chemistry of Thermoplastic Elastomers Award (2011); The ACS, Polymeric Materials Science and Engineering (PMSE) Division Cooperative Research Award (2010); The International Award of the Society of Polymer Science, Japan (SPSJ, 2007); He has been elected for the Macro Group United Kingdom Medal for Outstanding Achievement for 2016. Social Media <https://polymer.kaust.edu.sa>.

Novel Strategies Towards Well-Defined Polyethylene-Based Complex Macromolecular Architectures

Access to well-defined (high degree of structural, molecular weight and compositional homogeneity) polyethylenes (PEs) and PE-based copolymers is necessary in order to correctly elucidate the structure-properties relationships and evaluate potential applications. Recently Shea, based on homologation,[1] an organic reaction that converts a reactant into the next member of the homologous series e.g. ethane to propane, developed a novel polymerization methodology[2] leading to perfectly linear PEs. The general reaction scheme involves the formation of an organoboron zwitterionic complex between a methylide (monomer) and a trialkylborane Lewis acid (activator/initiator) which breaks down by intramolecular 1,2-migration. As a consequence, the activated methylene group of methylide is randomly inserted one by one (C1 polymerization) into the three branches of the trialkylborane leading to a 3-arm PE star. The resulting star is subsequently oxidized/hydrolysed to give perfectly OH-end-capped linear PEs.

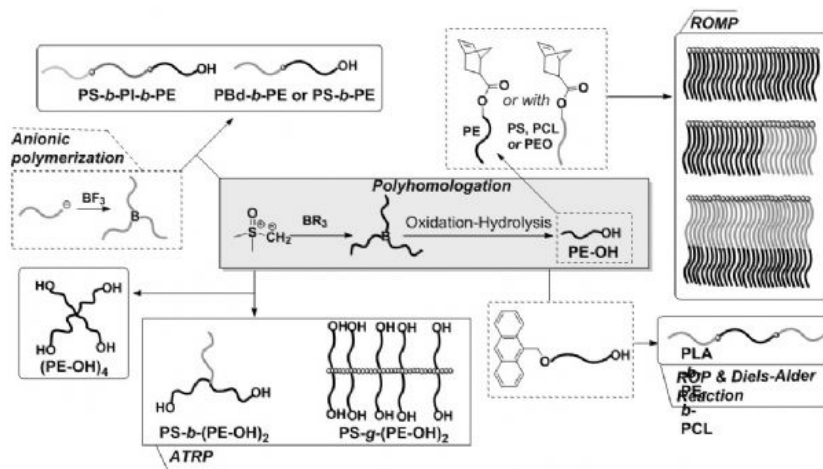
Our group is developing both novel borane initiators/yliide monomers and combines polyhomologation with other living or controlled/living polymerizations to synthesize model polymethylene (or PE)-based polymeric materials with complex macromolecular architectures.[2-8]

References

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Keywords: complex macromolecular architectures, controlled/living polymerizations, polyhomologation

Scheme. PS: polystyrene; PB: polybutadiene; PI: polyisoprene; PCL: polycaprolactone; PEO: poly(ethylene oxide); PLA: polylactide





Niyazi Serdar Sarıçiftçi

Johannes Kepler University, Austria

Niyazi Serdar Sarıçiftçi graduated from the Austrian St. George's College in Istanbul. He also studied classical piano at the Music Conservatory in Istanbul (1970-1980). Then he began studying physics at the University of Vienna (1980-1989). After obtaining the doctorate (1989), he conducted research on the 2nd Physical Institute of the University of Stuttgart, Germany (1989-1992). In 1992 he received the academic teaching license (*venia docendi*) by the Central Interuniversity Commission (YÖK) in Ankara, Turkey. He then went to the Institute for Polymers & Organic Solids at the University of California, Santa Barbara, California, USA, where he worked for four years and, together with Alan J. Heeger (Nobel Prize in Chemistry, 2000) discovered and investigated the polymeric organic solar cells (1992-1996). In April 1996, he accepted the appointment as Chair of Physical Chemistry at the Johannes Kepler University Linz. Since 1996 he gives lectures as a full professor at the JKU and is the head of the Institute for Physical Chemistry. In 2000 he was appointed founding director of the Linz Institute for Organic Solar Cells (LIOS) at JKU. Between 2003 and 2009 he was elected to the City Council of the City of Linz (SPÖ Group). Furthermore, Sarıçiftçi is a founding member of the Linz Circle. He is also a member of various associations and societies: Fellow of the Royal Society of Chemistry (FRSC), American Chemical Society (ACS), Materials Research Society (MRS), Austrian Physical Society (ÖPG), Austrian Chemical Society (GÖCH) and Fellow of SPIE. 2014, he was elected a corresponding member of the Austrian Academy of Sciences (AAS). Sarıçiftçi has published more than 500 scientific publications in scientific journals. He is one of the most cited scientists in his field. In a global ranking of the best materials scientists Sarıçiftçi was classified as 14th.

From Organic To Bioorganic Electronic Devices

Organic light emitting diodes (OLEDs), organic photovoltaic cells (OPVs) and organic field effect transistors (OFETs) are device elements for a future organic optoelectronics. Maturing from the academic research into the industrial development, such devices are entering the markets. Pure organic nanostructures and organic/inorganic hybrid nanostructures are comparatively studied for devices. This talk gives an overview of materials' aspect and devices with special emphasis on polymeric structures.

In order to account for a sustainable future, the application of biodegradable and biocompatible systems for organic optoelectronics are needed. The use of cheap electronic devices in a large scale will introduce a shift "from consumer electronics to consumable electronics". As such the contribution of electronic devices to urban waste is already increasing rapidly today. Therefore environmentally friendly materials are important to use. This is a next great challenge to material science in organic electronics. New developments of bio-inspired and/or bio-origin, bio-compatible materials are interesting. Such materials can also be used to interface the biological and biomedical research with the organic electronics field.

Keywords: Organic light emitting diodes, organic photovoltaic cells, organic field effect transistors



Takuzo Aida

University of Tokyo, Japan

Dr. Takuzo Aida was born in 1956. He received his Ph.D. in Polymer Chemistry from the University of Tokyo in 1984, and then began his academic career as an assistant professor at the same university on precision polymer synthesis. In 1996, he was promoted to full professor of the Department of Chemistry and Biotechnology, School of Engineering, the University of Tokyo. His research interests include optoelectronic soft materials, bioinspired macromolecules and materials including “Aqua Material”, and molecular and biomolecular machines. He was appointed as a researcher for JST PRESTO Project for Fields and Reactions in 1996, and served as the director for JST ERATO AIDA Nanospace Project in 2000–2005 and then for JST ERATO-SORST Electronic Nanospace Project in 2005–2010. He is now the deputy director for Riken Center for Emergent Matter Science. He has received many awards including, as recent examples, American Chemical Society Award in Polymer Chemistry, Chemical Society of Japan Award in 2009, Purple Ribbon in 2010, and Fujiwara Prize and Alexander von Humboldt Research Award in 2011.

Stimuli-Responsive Smart Soft Materials

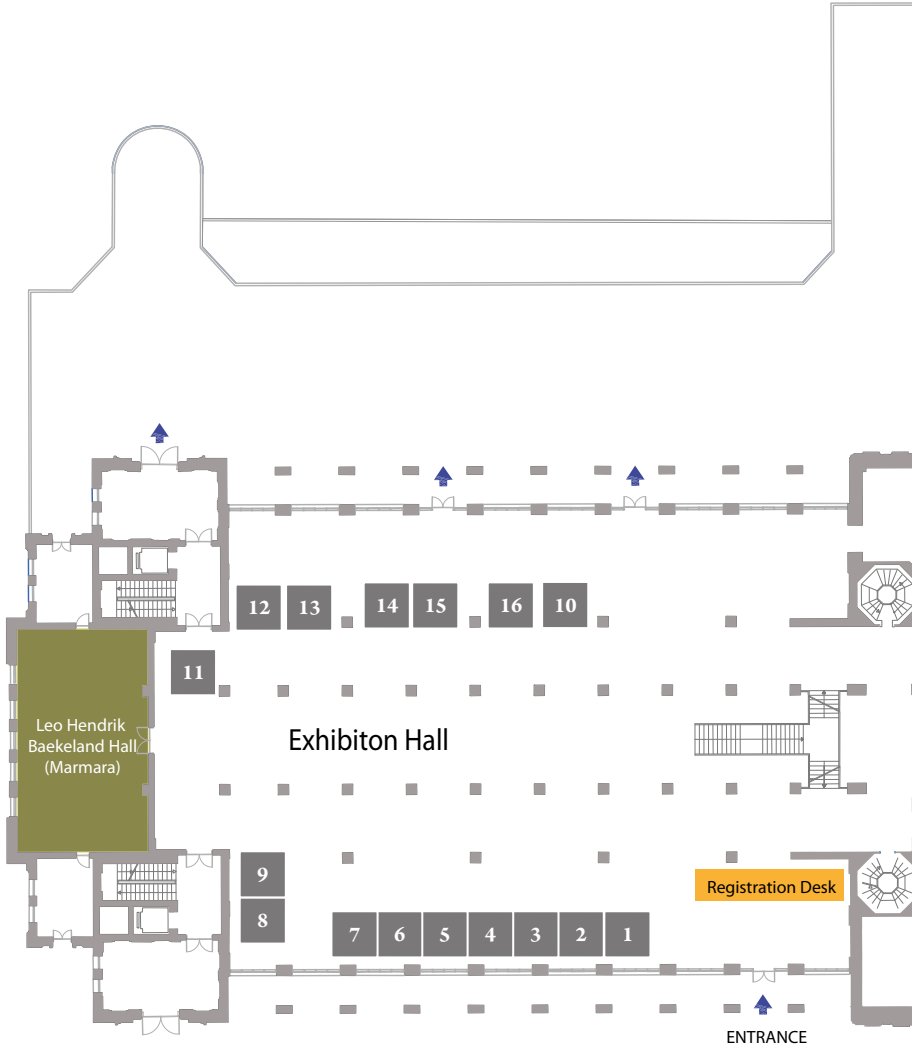
Machine technology frequently puts magnetic or electrostatic repulsive forces to practical use, as in maglev trains, vehicle suspensions or non-contact bearings. In contrast, materials design overwhelmingly focuses on attractive interactions, such as in the many advanced polymer-based composites, where inorganic fillers interact with a polymer matrix to improve mechanical properties. However, articular cartilage strikingly illustrates how electrostatic repulsion can be harnessed to achieve unparalleled functional efficiency: it permits virtually frictionless mechanical motion within joints, even under high compression. Here we describe a composite hydrogel with anisotropic mechanical properties dominated by electrostatic repulsion between negatively charged unilamellar titanate nanosheets embedded within it. Crucial to the behaviour of this hydrogel is the serendipitous discovery of cofacial nanosheet alignment in aqueous colloidal dispersions subjected to a strong magnetic field, which maximizes electrostatic repulsion⁶ and thereby induces a quasi-crystalline structural ordering over macroscopic length scales and with uniformly large face-to-face nanosheet separation. We fix this transiently induced structural order by transforming the dispersion into a hydrogel using light-triggered in situ vinyl polymerization. The resultant hydrogel, containing charged inorganic structures that align cofacially in a magnetic flux, deforms easily under shear forces applied parallel to the embedded nanosheets yet resists compressive forces applied orthogonally. We anticipate that the concept of embedding anisotropic repulsive electrostatics within a composite material, inspired by articular cartilage, will open up new possibilities for developing soft materials with unusual functions.

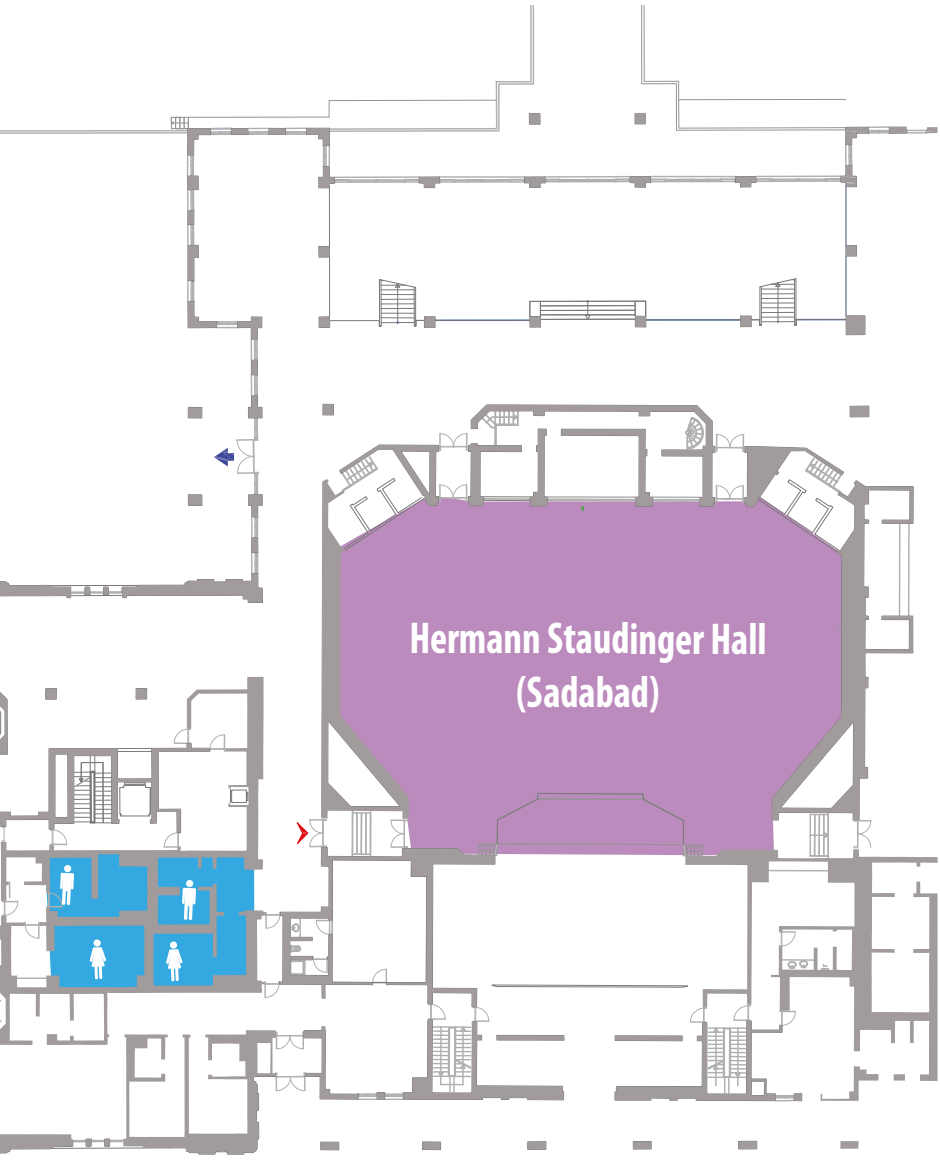
References

- [1] Q. Wang et al., *Nature* 2010, 463, 339. [2] M. Liu et al., *Nature Commun.* 2013, 4, 2029. [3] M. Liu et al., *Nature* 2015, 517, 68. [4] Y.-S. Kim et al., *Nature Mat.* 2015, 14, 1002.

Keywords: Responsive materials, supramolecular chemistry, functional hydrogels

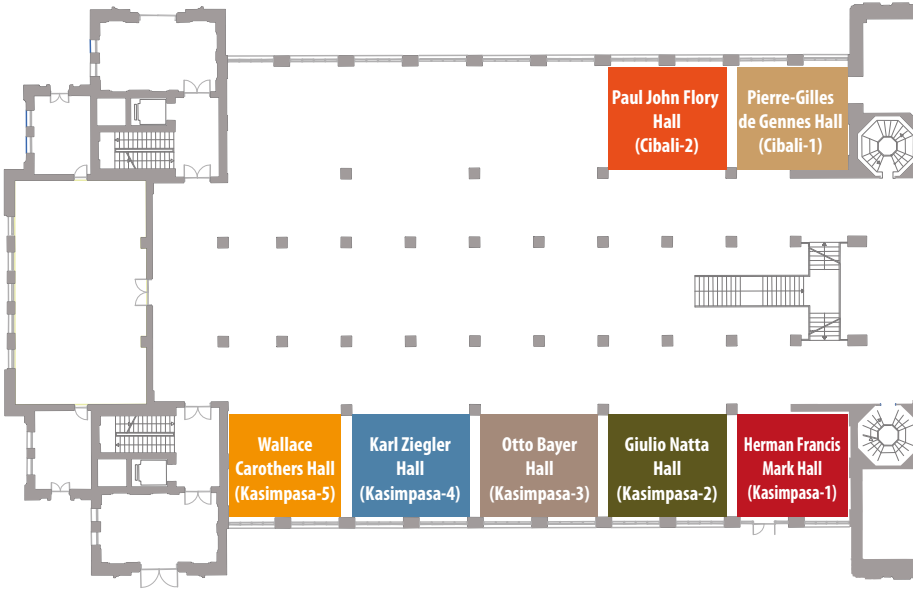
GROUND FLOOR

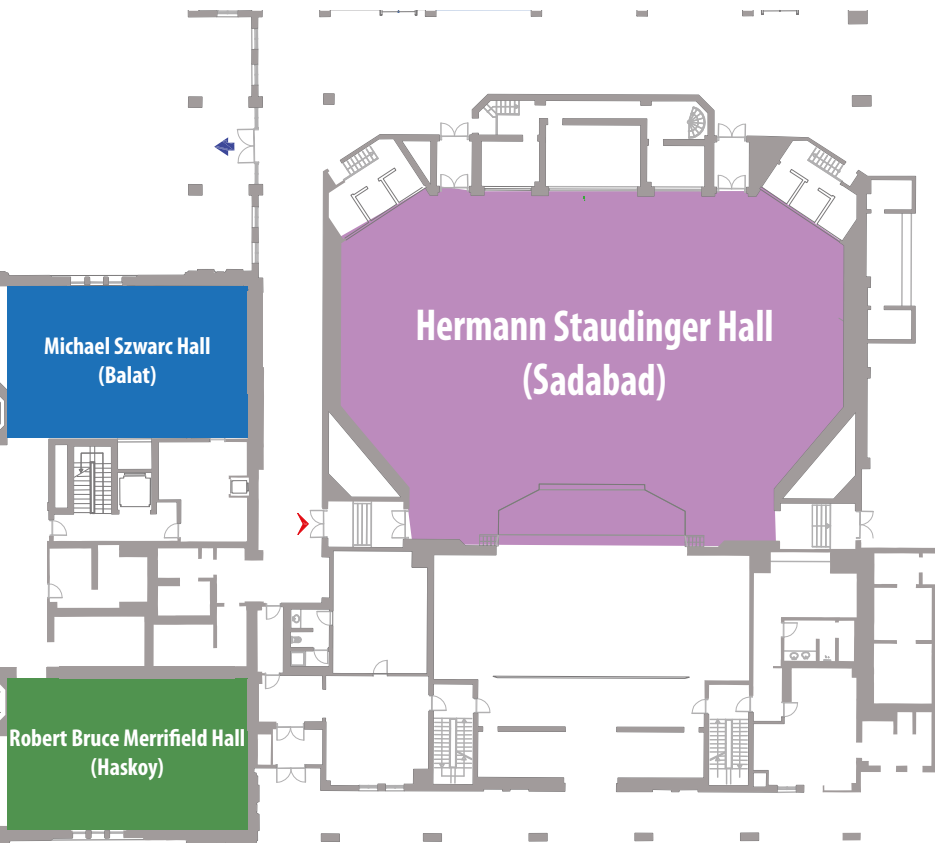




Hermann Staudinger Hall
(Sadabad)

FIRST FLOOR





	July 18, 2016 Monday	
09:10 - 10:10	Awards Ceremony and Bob Stepto Lecture	
10:00 - 10:30	Coffee Break	
10:30 - 12:30	Parallel Sessions	
12:30 - 13:30	Lunch	
13:30 - 14:30	Plenary Speaker #1 <i>(Krzysztof Matyjaszewski)</i>	
14:30 - 16:00	Parallel Sessions	
16:00 - 16:30	Coffee Break	
16:30 - 17:00	Parallel Sessions	
17:00 - 18:00		
18:00 - 19:00	Poster Session 1	
18:30 - 19:00		
19:00 - 22:00	Welcome Reception	

	July 19, 2016 Tuesday	July 20, 2016 Wednesday
	Plenary Speaker #2 (Martin Moeller)	Plenary Speaker #4 (N. S. Sariciftci)
	Coffee Break	Coffee Break
	Parallel Sessions	Parallel Sessions
	Lunch	Lunch
	Plenary Speaker #3 (Nikos Hadjichristidis)	Plenary Speaker #5 (T. Aida)
	Parallel Sessions	Parallel Sessions
	Coffee Break	Coffee Break
	Parallel Sessions	Parallel Sessions
	Poster Session 2	Poster Awards and Closing Ceremony
		Gala Dinner

July 18, 2016 - Monday

<i>Hermann Staudinger Hall (Sadabad)</i>		
08.00-09.00	Registration	
09.00-09.10	Opening Remarks	
09.10-10.00	Awards Ceremony and Bob Stepto Lecture	
	Michael Buback <i>(Bob Stepto Lecturer)</i>	Radical Polymerization Kinetics and Mechanisms studied by Pulsed Laser Initiation in Conjunction with Highly Time-Resolved EPR Spectroscopy
10:00-10:30	Break	
10.30-12.30	Parallel Sessions (@ Parallel Hals)	
12.30-13.30	Lunch	
13.30-14.30	Plenary Speaker #1	
	Krzysztof Matyjaszewski <i>Carnegie Mellon University, USA</i>	Controlled Radical Polymerization: from Mechanisms to Applications
14.30-16.00	Parallel Sessions (@ Parallel Hals)	
16:00-16:30	Break	
16.30-18.00	Parallel Sessions (@ Parallel Hals)	
18.00-19.00	Poster Session - 1 (@ Poster Area)	
19:00-22.00	Welcome Reception	

July 19, 2016 - Tuesday

<i>Hermann Staudinger Hall (Sadabad)</i>		
09.00-10.00	Plenary Speaker #2	
	Martin Moeller <i>Aachen University, Germany</i>	From light empowered to self-oscillating hydrogel objects - on the rate and directionality control of microscopic morphing
10:00-10:30	Break	
10.30-12.30	Parallel Sessions (@ Parallel Hals)	
12.30-13.30	Lunch	
13.30-14.30	Plenary Speaker #3	
	Nikos Hadjichristidis <i>KAUST, Saudi Arabia</i>	Novel Strategies Towards Well-Defined Polyethylene-Based Complex Macromolecular Architectures
14.30-16.00	Parallel Sessions (@ Parallel Hals)	
16:00-16:30	Break	
16.30-18.00	Parallel Sessions (@ Parallel Hals)	
18.00-19.30	Poster Session - 2 (@ Poster Area)	

July 20, 2016 - Wednesday

<i>Hermann Staudinger Hall (Sadabad)</i>		
09.00-10.00	Plenary Speaker #4	
	Niyazi Serdar Sariciftci <i>Johannes Kepler University, Austria</i>	From Organic To Bioorganic Electronic Devices
10:00-10:30	Break	
10.30-12.30	Parallel Sessions (@ Parallel Hals)	
12.30-13.30	Lunch	
13.30-14.30	Plenary Speaker #5	
	Takuzo Aida <i>University of Tokyo, Japan</i>	Stimuli-Responsive Smart Soft Materials
14.30-16.00	Parallel Sessions (@ Parallel Hals)	
16:00-16:30	Break	
16.30-18.00	Parallel Sessions (@ Parallel Hals)	
18:00-19.00	Poster Awards and Closing Ceremony	
19.00-22.00	Gala Dinner	



Bridging Continents & Bridging Molecules

MACRS 2016

World Polymer Congress Istanbul 17-21 July

TECHNICAL PROGRAM

Schedule for Invited and Oral Speakers

Short Codes	
RDPS-A	Recent Developments in Polymer Synthesis-A-Controlled/Living Polymerization
RDPS-B	Recent Developments in Polymer Synthesis-B-Complex Macromolecular Structures
RDPS-C	Recent Developments in Polymer Synthesis-C-Light-induced Reactions in Polymer Science
RDPS-D	Recent Developments in Polymer Synthesis-D-Condensation Polymerization and Thermoset
PCNCT	Polymer Characterization by New and Combined Techniques
MN	Macromolecules & Nanotechnology
MBM	Macromolecules in Biotechnology & Medicine
EOO	Energy, Optics, & Optoelectronics
PPBM	Polymer and Polymer-Based Membranes
SFP	Smart and Functional Polymers
RRB	Renewable Resources and Biopolymers
PEPC	Polymer Engineering, Processing, and Characterization
PP	Polymer Physics
PE	Polymer Education
IP	Industrial Polymers
PPG	Porous Polymer and Gels
MSP	Modeling and Simulation of Polymers

July 18, 2016, Monday

Michael Szwarc Hall (Balat)

Session: Controlled/Living Polymerization

Chairman: Junpo He		
10:30-11:00	Filip Du Prez	RDPS-A-I-002 - Click/transclick reactions in combination with CRP: "TAD's the spirit"
11:00-11:20	Metin H Acar	RDPS-A-O-001 - Polymer Electrolyte Membrane Synthesis by ATRP and Iniferter Methods
11:20-11:40	Metwally Ezzat	RDPS-A-O-002 - Anti-fog and anti-frost performance of zwitterionic polymer brushes prepared by SI-ATRP polymerization
11:40-12:00	Rosa María Sebastián	RDPS-A-O-008 - Controlled living anionic polymerization of cyanoacrylates by frustrated Lewis pair based initiator
12:00-12:20	Tuncer Caykara	RDPS-A-O-013 - Ibuprofen imprinted ultrathin poly(N-(2-hydroxypropyl) methacrylamide) films
12:20-12:40	Zhenjiang Li	RDPS-A-O-009 - H-bonding donor and Brønsted acid co-catalysis in ring-opening polymerization
12.30-13.30	Lunch	
Chairman: Tuncer Caykara		
14:30-15:00	Junpo He	RDPS-A-I-008 - New Possibility of Living Anionic Polymerization: from Living Dendrimer to Sequence Controlled Polymer
15:00-15:20	Christopher Michael Fellows	RDPS-A-O-004 - Polymerisation behaviour of 'switchable' RAFT agents
15:20-15:40	Hossein Roghani Mamaqani	RDPS-A-O-005 - Reversible addition-fragmentation chain transfer polymerization of N-isopropylacrylamide and acrylic acid from nanocrystalline cellulose to prepare a dual sensitive material
15:40-16:00	Atsushi Kajiwara	RDPS-A-O-006 - Step by Step Investigation of Radical Polymerization Processes by a Combination of Electron Spin Resonance and Controlled Radical Polymerization Techniques
16:00-16:30	BREAK	

Chairman: Junpo He		
16:30-16:50	Jan Merna	RDPS-A-O-011 - Hyperbranched polyethylene by living ethylene polymerization initiated by diimine and amino-imine nickel and palladium complexes
16:50-17:10	Igor Lacik	RDPS-A-O-007 - Propagation rate coefficient for acrylamide radical polymerization in aqueous solution
17:10-17:30	Dietmar Hertsen	RDPS-A-O-012 - The CROP reaction of 2-oxazolines <i>in silico</i>

July 18, 2016, Monday

Wallace Carothers Hall (Kasimpasa-5)

Session: Complex Macromolecular Structures

Chairman: Faruk Yilmaz		
10:30-11:00	Patrick Theato	RDPS-B-I-003 - From Simple Chemistries to Complex Functional Polymers
11:00-11:30	Amitav Sanyal	RDPS-B-I-009 - Thiol-based Conjugations: A Versatile Tool for Fabrication and Functionalization of Polymeric Nanomaterials
11:30-11:50	Deniz Kaya	RDPS-B-O-005 - Viscoelastic Properties of Peptide Nanofiber Gels via Microrheology
12:30-13:30	LUNCH	
Chairman: Amitav Sanyal		
14:30- 15:00	Filip Du Prez	RDPS-B-I-004 - Thiolactone Groups as Functional Handles: From Double End Group Modification to Macromolecular Lineups
15:00-15:20	Hakan Durmaz	RDPS-B-O-002 - Main Chain Post-Functionalization Of Synthetic Polyesters Through Metal-Free Cycloaddition Reactions
16:00-16:30	BREAK	

July 19, 2016, Tuesday

Hermann Staudinger Hall (Sadabad)

Session: Light-induced Reactions in Polymer Science

Chairman: Binnur Aydogan		
10:30-11:00	Nergis Arsu	RDPS-C-I-002 - In-situ preparation of metal/polymer nanocomposite thin films by photopolymerization method
11:00-11:30	Filip Du Prez	RDPS-C-O-001 - Remoldable Polymer Networks Using Light-responsive Anthracene Derivatives
11:30-11:50	Jamarosliza Binti Jamaluddin	RDPS-C-O-007 - Hydrophobic coating based on fluorinated acrylate monomer using UV-LED polymerization
11:50-12:10	Gorkem Yilmaz	RDPS-C-O-002 - New Photochemical Strategies for Macromolecular Syntheses
12:10-12:30	Nadia Binti Adrus	RDPS-C-O-003 - Comparative Study for Photopolymerization of Polyacrylamide Hydrogels using different UV light sources
12:30-13:30	LUNCH	
Chairman: Nergis Arsu		
14:30-15:00	Jürgen Rühle	RDPS-C-I-004 - Surface-attached polymer layers via C,H insertion crosslinking (CHIC)
15:00- 15:20	Binnur Aydogan Temel	RDPS-C-O-004 - A Coumarin Bearing Amphiphilic Block Copolymer: Synthesis, Characterization and Micellization
15:20-15:40	Xavier Fernández Francos	RDPS-D-O-005 - Sequential dual-curing processes based on thiol-click reactions
15:40-16:00	David Perrot	RDPS-C-O-006 - Light-triggered polymerization of dopamine through a photoinduced pH jump
16:00-16:30	BREAK	

July 20, 2016, Wednesday

Herman Francis Mark Hall (Kasimpasa-1)

Session: Condensation Polymerization and Thermoset

Chairman: Mark Soucek		
10:30-11:00	Iskender Yilgör	RDPS-D-I-004 - Hyperbranched segmented polyurethaneureas: A versatile platform for the preparation of novel functional materials
11.00-11.20	Baris Kiskan	RDPS-D-O-001 - Adapting Polybenzoxazines for Smart Applications
11:20-11:30	Serkan Unal	RDPS-D-O-009 - Design and Synthesis of Novel Waterborne Polyurethane Dispersions for High Performance Coating and Adhesive Applications
11.30-11.50	Filip Du Prez	RDPS-D-O-002 - High molecular weight processable and thermally stable poly(cyclo) acetals
12:30-13:30	LUNCH	
Chairman: Iskender Yilgor		
14:30-15:00	Mark Soucek	RDPS-D-I-005 - Comparison of In Situ to Ex situ Prepared Sol-gel Inorganic/Organic Hybrid Coatings
15:00- 15:20	Wenjun Gan	RDPS-D-O-010 - Effects of nanocomponent on the curing reaction and reaction-induced phase separation of epoxy composites
15:20- 15:40	Shankar Prasad Khatiwada	RDPS-D-O-011 - Transparent epoxy thermoset toughened by modified star block copolymer
15:40-16:00	Rajesh Pandit	RDPS-D-O-012 - Investigation on Morphology and Mechanical Properties of Nanostructured Epoxy Resin Blends
16:00-16:30	BREAK	
Chairman: Baris Kiskan		
16:00-16:20	Asma Iqbal	RDPS-D-O-013 - Synthesis and characterization of functionalized Graphene-oxide/Polyimide nanocomposites as potential candidates for optoelectronics
16:20-16:40	Çağla Koşak Söz	RDPS-D-O-014 - Mussel-inspired, tannic acid based coatings modified with L-cysteine
16:40-17:00	Filip Du Prez	RDPS-D-O-015 - Vinylogous Urethanes, a New Chemistry for High-Performance Vitrimers

17:00-17:20	Yohana Kurnia Endah	RDPS-D-O-016 - Solid-state polymerization and characterization of copolyamide based on adipic acid, 1,4-butanediamine, and 2,5-furan dicarboxylic acid
17:20- 17:40	Ali Osman Konuray	RDPS-D-O-017 - Room-temperature dual-curing processing of amine-acrylate-methacrylate mixtures

July 18, 2016, Monday

Herman Francis Mark Hall (Kasimpasa-1)

Session: Polymer Characterization by New and Combined Techniques

Chairman: Betty Lucy Lopez		
10:30-11:00	Holger Schönherr	PCNCT-I-001 - Combined AFM - confocal fluorescence lifetime imaging microscopy (FLIM) to interrogate nanoenvironments in bacteria-sensing polymeric vesicles
11:00-11:30	Sven Henning	PCNCT-I-003 - Micromechanics of Polymers: Electron Microscopic Methods to Investigate Micro- and Nanoscopic Processes of Deformation and Fracture
11:30-11:50	Jean Baptiste Henri Lena	PCNCT-O-010 - Characterization of Branching in Poly(Acrylic Acid) by ¹³ C NMR Spectroscopy and Capillary Electrophoresis
11:50-12:10	Roman Fuehrer	PCNCT-O-002 - New Applications for Science and Industry using a Universal Extensional-Fixture (UXF) with a counter rotation MCR Rheometer
12:30-13:30	LUNCH	
Chairman: Holger Schönherr		
14:30-15:00	Betty Lucy Lopez	PCNCT-I-006 - Study of the effect of physicochemical parameters on chitosan-oleic acid nanoparticles size for encapsulation of anti-inflammatory hydrophobic drug
15:00- 15:20	Chin Han Chan	PCNCT-O-008 - Dielectric and thermal properties of poly(ethylene oxide)-based polymer electrolytes
15:30-15:50	Davide Ret	PCNCT-O-009 - Characterization of Hyaluronic Acid derivatives – Novel fundamental inside
15:50-16:10	Subin Damodaran	PCNCT-O-004 - Application of gel permeation chromatography in polymer analysis
16:00-16:30	BREAK	

July 19, 2016, Tuesday

Herman Francis Mark Hall (Kasimpasa-1)

Session: Polymer Characterization by New and Combined Techniques

Chairman: Sven Henning		
10:30-11:00	Bernhard Bluemich	PCNCT-I-008 - Polymer Characterization with Compact NMR
11:00-11:20	Ezgi Eren Belgin	PCNCT-O-012 - A Novel Polymeric Radiation Shield reinforced with WO ₃ : Design, Performance and Structural-Thermal Characterization
11:20-11:40	Rached Jaafar	PCNCT-O-013 - Force spectroscopy with real-time modeling and analysis on soft biological and polymer materials
12:30-13:30	LUNCH	

July 18, 2016, Monday

Hermann Staudinger Hall (Sadabad)

Session: Macromolecules & Nanotechnology

Chairman: Iskender Yilgor		
10:30-11:00	Stephen Craig	MN-I-001 - Single Molecule Properties of Covalently Responsive Polymers
11:00-11:20	Li Zhao	MN-O-008 - Fabrication of biodegradable Poly(lactic acid) stereocomplex microcapsules using Layer-by-Layer technique in non-aqueous medium
11:20-11:40	A Levent Demirel	MN-O-010 - Hydrogen-bonded layer-by-layer films of poly(2-alkyl-2-oxazoline)s
11:40-12:00	Gokhan Yilmaz	MN-O-003 - Synthesis of glyconanoparticles with different morphologies and their interactions with DC-SIGN
12:00-12:20	Selçuk Poyraz	MN-O-033 - Preparation of Carbon Nanotube Decorated Fiber Reinforced Polymeric Composite Structures by Using Microwave Energy
12:30-13:30	LUNCH	

July 18, 2016, Monday

Giulio Natta Hall (Kasimpasa-2)

Session: Macromolecules & Nanotechnology

Chairman: Cenk Aktas		
14:30-15:00	Iskender Yilgör	MN-I-002 - Simple processes for the preparation of superhydrophobic polymer surfaces
15:00- 15:20	Cafer T Yavuz	MN-O-005 - Nanoporous polymers as caging supports for catalytically active nanoparticles
15:20-15:40	Yue Zhao	MN-O-007 - CO ₂ -Stimulable Block Copolymer Nanostructures
16:00-16:30	BREAK	

July 19, 2016, Tuesday

Giulio Natta Hall (Kasimpasa-2)

Session: Macromolecules & Nanotechnology

Chairman: Cafer T Yavuz		
10:30-11:00	Cenk Aktas	MN-I-006 - Bi-phasic Hybrid Nanostructures for Functional Applications
11:00-11:20	Bin Sun	MN-O-021 - Sodium Alginate Hydrogel Membrane Hybridized by Silver Nanoparticle as a Highly Effective Photocatalysis Microreactor for Large Scale Dye Wastewater Treatment
11:20-11:40	Muhammad Anwaar	MN-O-012 - Self-assembled hydroxyapatite-chitosan nanocomposites: Promising materials for bone tissue engineering applications
11:40-12:00	Erhan Bat	MN-O-013 - Direct Write Patterning of Multiple Proteins and Polymers at the Micrometer and Nanometer Scale
12:00-12:20	Ncapayi Vuyelwa	MN-O-014 - Simple green synthesis of CdTe/CdSe/ZnSe core-multi shell with reduced cytotoxicity for bio imaging
12:20-12:40	Syed Shahabuddin	MN-O-015 - Synthesis and characterization of polyaniline/ SrTiO ₃ nanocomposite and its photocatalytic activity for degradation of methylene blue dye under visible light
12:30-13:30	LUNCH	
Chairman: Ali Osman Sezer		
14:30-14:50	Noor Aniza Harun	MN-O-016 - Simultaneous Enhanced SERS and Fluorescence Effects of Co-Encapsulated Au-Ag Alloy Nanoparticles and Silicon Quantum Dots within Polymer Nanoparticles
14:50-15:10	Hanna J Maria	MN-O-017 - Dispersion of nanoclay and its extend of compatibilization in immiscible natural rubber /nitrile rubber blends
15:10- 15:30	Tsung Yen Tsai	MN-O-032 - An advanced preparation and characterization of the PET/MgAl-LDH nanocomposites
15:30-15:50	Ali Demirci	MN-O-020 - Controlled Synthesis of Silsesquioxane Based Hybrid Copolymers for Nanostructured Spheres and Fibers
16:00-16:30	BREAK	

July 20, 2016, Wednesday

Giulio Natta Hall (Kasimpasa-2)

Session: Macromolecules & Nanotechnology

Chairman: Cenk Aktas		
10:30-11:00	Ali Osman Sezer	MN-I-007 - Electropolymerization and characterization of polyaniline-titania nanocomposites for sensing applications
11:00-11:20	Ilke Anac	MN-O-022 - Superhydrophobic Polysiloxane Nanofilament Growth on Hydrophobic and Hydrophilic Polymer Coatings
11:20-11:40	Sevde Altuntaş	MN-O-023 - Detection of Alzheimer's Protein on Polycarbonate Nanopillared Films by Using Surface Enhanced Raman Spectroscopy
11:40-12:00	Rosnani Hasham	MN-O-024 - Design of Virgin Coconut Oil Based Nanostructured Lipid Carriers to co-deliver phytochemical extracts
12:00-12:20	A. Başak Kayitmazer	MN-O-025 - Non-stoichiometric complex coacervates
12:20-12:40	Zeynep Eryılmaz	MN-O-026 - Polymer Coated CdSe/CdS Nanocrystals: Synthesis And Optical Properties
12:30-13:30	LUNCH	
Chairman: Ilke Anac		
14:30-14:50	Filip Du Prez	MN-O-027 - Sustainable design of nanoparticles using the triazolinedione (TAD)-ene click reaction
14:50- 15:10	Ahmet Üner	MN-O-028 - Synthesis and Surface Properties of PEG Based-Amphiphilic Star-shaped Polymers with POSS (Polyhedral Oligomeric Silsesquioxane) Core
15:10- 15:30	Ersan Eyiler	MN-O-029 - Magnetic Nanoparticles Surface Modified with Stimuli-Responsive Polymers: An Initial Study of Stimuli-Triggered Phase Transfer
15:30- 15:50	Ahmed Youssef	MN-O-030 - Synthesis and characterization of eco-friendly bionanocomposites based on PVA and Zn/Al-LDHs
15:50- 16:10	Tonguç Özdemir	MN-O-031 - Nano lead oxide and epdm rubber composite for development of lightweight radiation shielding material: gamma irradiation
16:00-16:30	BREAK	

July 18, 2016, Monday

Robert Bruce Merrifield Hall (Haskoy)

Session: Macromolecules in Biotechnology & Medicine

Chairman: Yasemin Yuksel Durmaz		
10:30-11:00	Fenghua Meng	MBM-I-004 - Robust Polymersomal Doxorubicin for Active Tumor Targeted Chemotherapy
11:00-11:20	Shumaila Razzaque	MBM-O-008 - Synthesis and development of microporous organic polymeric capsules as a drug carrier
11:20-11:40	Rana Sanyal	MBM-O-002 - Micellar Drug Delivery Systems
11:40-12:00	Eda Ayse Aksoy	MBM-O-027 - Improving Antibacterial Efficacy of Chitosan Grafted Polyurethanes with Silver Nanoparticles
12:00-12:20	Ghislaine Barouti	MBM-O-005 - Polyhydroxyalkanoate-based diblock and triblock copolymers: Chemical composition and macromolecular architecture, an easy way to tune the nanoparticles properties for drug delivery applications
12:30-13:30	LUNCH	
Chairman: Rana Sanyal		
14:30- 14:50	Yasemin Yuksel Durmaz	MBM-O-029 - Development of Nanodroplets for Histotripsy-Mediated Cell Ablation
14:50-15:10	Pramendra Kumar	MBM-O-006 - Synthesis and characterization of psyllium-g-poly(acrylamide-co-acrylic acid) through microwave route for anticancer treatment
15:10-15:30	Sanogo Brahima	MBM-O-031 - Riboflavin Release from Interpenetrated Network Poly(NIPAAm-co-AAc) Hydrogel and Release Data Modeling by using Response Surface Methodology and Artificial Neural Networks
16:00-16:30	BREAK	

Chairman: Fenghua Meng		
16:30-16:50	Metin Tülü	MBM-O-032 - A study of Dendritic Properties on Drug Solubility: Concentration, Generation Number and Surface Functionality
16:50-17:10		
17:10-17:30	Tuğba Endoğan Tanır	MBM-O-009 - Platelet adhesion and protein adsorption on heparin immobilized graphene enhanced poly(acrylonitrile-co-ethyl methacrylate) copolymer membranes
17:30-17:50	Maziar Mohammadi	MBM-O-010 - easuring the Growth Kinetics of Layer-by-Layer Assemblies of Organic Nanoparticles and Polyelectrolytes
17:50-18:10	Marcos Lopes Dias	MBM-O-011 - Synthesis of fluorescent pegulated lactide copolymers by Ugi four-component condensation

July 19, 2016, Tuesday

Robert Bruce Merrifield Hall (Haskoy)

Session: Macromolecules in Biotechnology & Medicine

Chairman: Rana Sanyal		
10:30-11:00	Jürgen Rühle	MBM-I-009 - Surface-attached polymer networks for the detection of rare circulating tumor cells in whole blood
11:00-11:20	Jürgen Rühle	MBM-O-012 - Surface-attached coatings on biological tissues and their potential in glaucoma treatment
11:20-11:40	Melis Kesik	MBM-O-013 - Multi-Functional Fluorescent Scaffold as a Multicolor Probe: Design and Application in Targeted Cell Imaging
11:40-12:00	Jin Hu	MBM-O-014 - Elastin-like polypeptide fusion of Interferon-alpha with enhanced pharmacokinetics profiles and superior antitumor efficacy
12:30-13:30	LUNCH	

Chairman: Fenghua Meng		
14:30-15:00	Karsten Haupt	MBM-I-005 - Controlled and localized photopolymerization of molecularly imprinted polymer nanocomposites as plastic antibodies for bioimaging
15:00-15:20	Peter Charles Griffiths	MBM-O-016 - How mucin structures the mucus barrier
15:20-15:40	Andreea Madalina Pandele	MBM-O-017 - New porous graphene oxide biomaterials with potential application in bone repair
15:40-16:00	Erde Can	MBM-O-018 - Preparation and characterization of novel poly(proylene fumarate) (PPF) based scaffolds for bone tissue engineering
16:00-16:30	BREAK	
Chairman: Karsten Haupt		
16:30-17:00	Jürgen Rühle	MBM-I-001 - Engineered biointerfaces through tailormade surface-attached polymer networks – From to new diagnostic tools to implantable materials
17:00-17:20	Olca Mert	MBM-O-019 - Synthesis of Biodegradable PEG Based Poly(Substituted Glycolides)
17:20-17:40	Vusala Ibrahimova	MBM-O-020 - Development of block copolymer based multifunctional nano-assemblies for a theranostic approach

July 20, 2016, Wednesday

Robert Bruce Merrifield Hall (Haskoy)

Session: Macromolecules in Biotechnology & Medicine

Chairman: Erde Can		
10:30-11:00	Volga Bulmuş	MBM-I-007 - Well-defined Fatty Acid Polymers as Potential Membrane Destabilizing Agents
11:00-11:20	Muhammet U. Kahveci	MBM-O-022 - Ultrafast tetrazine ligation for preparation bio-functional polymers
11:20-11:40	Sevgi Balcioglu	MBM-O-023 - Hydrophilic and Hydrophobic Balance in Tissue Adhesives
11:40-12:00	Hatice Betul Bingol	MBM-O-024 - Phosphonic Acid-Functionalized Acrylamides for Biomedical Applications
12:00-12:20	Christian Hoffmann	MBM-O-026 - Area selective surface functionalization and enzyme immobilization in thiol-ene-epoxy microfluidic devices
12:20-12:40	Tarik Eren	MBM-O-028 - New generation of antibiotics
12:30-13:30	LUNCH	

July 18, 2016, Monday

Karl Ziegler Hall (Kasimpasa-4)

Session: Energy, Optics, & Optoelectronics

Chairman: Yingping Zou		
10:30-11:00	Iain McCulloch	EOO-I-002 - Semiconducting Polymers and Small Molecules for Transistors and Solar Cells
11:00-11:20	Murat Ates	EOO-O-001 - Supercapacitor device performances of graphene/conducting polymers
11:20-11:40	Selmiye Alkan Gürsel	EOO-O-007 - Graphene based Electrodes for Fuel Cells and Li-ion Batteries
11:40-12:00	Mustafa M. Demir	EOO-O-003 - Integration of triboluminescent crystals into transparent polymers
12:30-13:30	LUNCH	
Chairman: Jianxin Geng		
14:30-15:00	Turan Öztürk	EOO-I-007 - Thienothiophenes (TT) and Dithienothiophenes (DTT) for Electronic and Optoelectronic
15:00-15:20	Takeo Sasaki	EOO-O-004 - Dynamic Hologram Formation in Photorefractive Ferroelectric Liquid Crystal Blends
15:20-15:40	Sumanta Kumar Karan	EOO-O-008 - Improvement of output performance of PVDF by incorporating Fe-oxides doped reduced graphene oxide: an efficient piezoelectric nanogenerator
15:40-16:00	Yunus Karataş	EOO-O-006 - 4-(Hydroxymethyl)-1,3-Dioxolane-2-on and Polyethylene Oxide Containing Borate Ester Based Polymer Electrolytes
16:00-16:30	BREAK	
Chairman: Turan Ozturk		
16:30-17:00	Yingping Zou	EOO-I-004 - New Polymers for Photovoltaics and NIR-II Imaging
17:00-17:30	Jianxin Geng	EOO-I-005 - Composites of Carbon Nanomaterials and Conjugated Polymers: Preparation and Properties
17:30-17:50	Hüseyin Bekir Yildiz	EOO-O-007 - Calixarene assembly with enhanced photocurrents using P(SNS-NH ₂)/CdS nanoparticle structure modified Au electrode systems

July 19, 2016, Tuesday

Karl Ziegler Hall (Kasimpasa-4)

Session: Energy, Optics, & Optoelectronics

Chairman: Levent Toppare		
10:30-11:00	Martin Heeney	EOO-I-003 - Tuning the performance of conjugated polymers for transistor and solar cells applications
11:00-11:20	Ünsal Koldemir	EOO-O-010 - End Group Effects on Molecular Order and Charge Transport in Conjugated Polymers
11:20-11:40	Serife O. Hacioglu	EOO-O-011 - The effect of the triphenylamine unit on electrochemical behaviors of benzotriazole bearing conjugated polymers
11:40-12:00	Mehmet Can Zeybek	EOO-O-024 - Conductive Polymer Nanotubes as Chemiresistive Sensors
12:00-12:20	Jurgen Ruhe	EOO-O-002 - Surface-attached polymer networks for planar optronic systems
12:30-13:30	LUNCH	
Chairman: Derya Baran		
14:30- 15:00	Levent Toppare	EOO-I-006 - Conjugated polymers and their applications
15:00-15:20	Gönül Hızalan	EOO-O-013 - Solution Processed Orange Light Emitting Diodes Using Polyfluorene Derivative
15:20-15:40	Jinyi Lin	EOO-O-014 - Polyfluorene-based Optoelectronic Device
16:00-16:30	BREAK	
Chairman: Huseyin Bekir Yildiz		
16:30-17:00	Derya Baran	EOO-I-008 - Exceeding the Limits of Fullerene Solar Cells
17:00-17:20	Amit Kumar Das	EOO-O-017 - High-performance ternary composite electrode material based on polyaniline (PANI), molybdenum trioxide (MoO ₃) and graphene nanoplatelets (GNP) for next-generation supercapacitor prepared by sono-chemical method
17:20-17:40	Zuhal Er	EOO-O-018 - Comparative Study for Monthly Average of Daily Global Radiation in Istanbul, Turkey

July 20, 2016, Wednesday

Karl Ziegler Hall (Kasimpasa-4)

Session: Energy, Optics, & Optoelectronics

Chairman: Murat Ates		
10:30-10:50	Tzu Tien Huang	EOO-O-019 - Highly Transparent and Flexible Biobased Polyimide/TiO ₂ and ZrO ₂ Hybrid Films with Tunable Refractive Index, Abbe Number, and Memory Properties
10:50-11:10	Salih Ertan	EOO-O-020 - A Novel Hybrid Type Conjugated Polymer Bearing Polyhedral Oligomeric Silsesquioxane Pendant Group
11:10-11:30	Noreen Sajjad	EOO-O-021 - Facile Synthesis of Cyclotriphosphazene Based on Pyrole and Thiophene Monomers as Precursors for Novel Potential Conducting Polymers
11:30-11:50	Huan Shen Liu	EOO-O-022 - Highly Transparent to Truly Black Electroactive Ambipolar Devices Based on Polyamides and Viologen
11:50-12:10	Ilknur Demirtas	EOO-O-023 - Syntheses, Electrochemical and Spectroscopic Properties of Fused-Thiophene Based Materials Possesing Benzonytrile Functional Group
12:30-13:30	LUNCH	

July 18, 2016, Monday

Leo Hendrik Baekeland Hall (Marmara)

Session: Polymer and Polymer-Based Membranes

Chairman: Volker Abetz		
10:30-11:00	Suzana P Nunes	PPBM-I-004 - New polymers and blends for block copolymer membranes
11:00-11:30	Ş. Birgül Tantekin Ersolmaz	PPBM-I-011 - Residual solvent effect on the CO ₂ /CH ₄ and CO ₂ /N ₂ separation properties of 6FDA-DAM membranes
11:30-11:50	Aneela Sabir	PPBM-O-001 - Improved permeation flux, salt rejection and chlorine resistant properties of ZnO nanoparticles infused polymeric thin film RO desalination membranes
11:50-12:10	Md Mushfequr Rahman	PPBM-O-002 - Gas separation performance, sorption behavior and thermal transitions of semicrystalline PolyActiveTM
12:10-12:30	Sadiye Halitoğlu Velioglu	PPBM-O-003 - Propylene/Propane Plasticization in Unary and Binary Gas Sorption on 6FDA-Based Polyimide Membranes
12:30-13:30	LUNCH	
Chairman: Suzana Nunes		
14:30-15:00	Volker Abetz	PPBM-I-003 - Integral Asymmetric Block Copolymer Membranes: Structure Formation and Preparation by Casting, Spinning, and Spraying
15:00- 15:30	Tamer Uyar	PPBM-I-006 - Bacteria encapsulated/ immobilized electrospun polymeric nanofibrous webs for wastewater treatment
15:30-15:50	Christian Höhme	PPBM-O-004 - High Thermally Stable Isoporous Integral Asymmetric Block Copolymer Membranes
15:50-16:10	Shahram Mehdipour Ataei	PPBM-O-006 - Microphase Separated Proton Exchange Membranes from Dual Electrospun Mats from Sepiolite-Based Nanocomposite Blends of Fully Sulfonated Poly(ether ketone)/ Non-sulfonated Poly(ether sulfone)
16:00-16:30	BREAK	

July 19, 2016, Tuesday

Leo Hendrik Baekeland Hall (Marmara)

Session: Polymer and Polymer-Based Membranes

Chairman: Tamer Uyar		
10:30-11:00	Volkan Filiz	PPBM-I-010 - Ionic liquids supported by porous and isoporous membranes for CO ₂ /N ₂ gas separation applications
11:00-11:20	Bruno A. Pulido	PPBM-O-008 - Porous polyisatinbiphenyl membranes for harsh environments
11:20-11:40	Tahir Jamil	PPBM-O-007 - Thin film nanofiltration polyamide membranes for water purification using Na ₂ SO ₄ draw solution
11:40-12:00	Marcel Balçık	PPBM-O-014 - CO ₂ -Induced Plasticization in Copolyimides Containing a Sulfone Group
12:00-12:20	Fağih Muhamad Sukma	PPBM-O-015 - Cellulose Membranes For Organic Solvent Nanofiltration
12:20-12:40	Elif Nur Durmaz	PPBM-O-016 - Phase Inversion Kinetics of Polymer-Ionic Liquid Solutions in Relation with Membrane Morphology and Macrovoid Formation
12:30-13:30	LUNCH	
Chairman: Volkan Filiz		
14:30-14:50	Johannes Carolus Jansen	PPBM-O-013 - A novel method to determine the transport parameters of individual gas mixture components in polymers of intrinsic microporosity
14:50- 15:10	Alessio Fuoco	PPBM-O-011 - Gas diffusion as a probe for intrinsic microporosity
15:10-15:30	Bekir Satılmış	PPBM-O-012 - Tailoring the selectivity of PIM-1 via chemical modification
15:30-15:50	Fatma Kurşun	PPBM-O-017 - Permeation and Separation Characteristics of IPA/Water Mixtures Through Poly(vinyl alcohol)-g-Poly(N-Hydroxymethylacrylamide) Copolymer Membrane by Pervaporation, Evapomeation and TDEV
15:50-16:10	Ali Delibaş	PPBM-O-018 - Preparation of styrene based membranes including substituted anilidic and amidic acids, characterization and protein adsorption

July 18, 2016, Monday

Otto Bayer Hall (Kasimpasa-3)

Session: Smart and Functional Polymers

Chairman: Ilker S. Bayer		
10:30-11:00	Frank Wiesbrock	SFP-I-001 - Contact Biocides Based on Poly(2-oxazoline)s and Poly(2-oxazine)s
11:00-11:20	Dipak Khastgir	SFP-O-007 - Flexible Composites for Multi functional Applications
11:20-11:40	M. Khaled Arafah	SFP-O-002 - A Photoresponsive Biomimetic Dry Adhesive Based on Doped PDMS Microstructures
11:40-12:00	Syara Kassim	SFP-O-003 - Synthesis PMMA-Gold Core-Shell Based Metallodielectric Photonic Crystals As Substrates For Surface-Enhanced Raman Spectroscopy
12:30-13:30	LUNCH	
Chairman: Frank Wiesbrock		
14:30-15:00	Ilker S. Bayer	SFP-O-006 - Graphene-polymer biocomposites for versatile high-performance flexible electronic applications
15:00-15:20	Jordi Royes Mir	SFP-O-008 - Reversible stiffness photocontrollable materials
15:20-15:40	Nikhil K Singha	SFP-O-005 - Modified Smart Carbon Nanotube via Reversible-Deactivation Radical Polymerization
16:00-16:30	BREAK	

July 19, 2016, Tuesday

Otto Bayer Hall (Kasimpasa-3)

Session: Smart and Functional Polymers

Chairman: Martin Moeller		
10:30-11:00	Michael J Serpe	SFP-I-006 - Stimuli-Responsive Polymer-Based Sensors, Muscles, and Drug Delivery Platforms
11:00-11:20	Nick Dibbert	SFP-O-009 - Dextran hydrogels - from polysaccharides to <i>biocompatible</i> and <i>biodegradable</i> scaffolds
11:20-11:40	Göksenin Kurt Çömlekçi	SFP-O-017 - Encapsulation of Alkyd Resin in Urea Formaldehyde Resin for Self-Healing Coatings
11:40-12:00	Seher Şenada	SFP-O-011 - Development of Superhydrophobic Surfaces Based on Polyurethane Chemistry For Coating Materials
12:00-12:20	Özgül Gök	SFP-O-012 - Multi-arm Polymers for Conjugation and Release of Therapeutic Cargo
12:20-12:40	RK Dey	SFP-O-013 - Polyamidoamine/shellac: responsive hydrogel for controlled release applications
12:30-13:30	LUNCH	
Chairman: Michael J Serpe		
14:30- 14:50	Sergio E Moya	SFP-O-014 - Thermal Annealing of Polyelectrolyte Multilayers: An Effective Approach for the Enhancement of Cell Adhesion
14:50- 15:10	Banu Iyisan	SFP-O-015 - Multifunctional Polymersomes as Smart Nanodevices for Biomedical Applications: Probing Responsive Behaviour and Mechanical Properties
15:10-15:30	Zhibo Li	SFP-O-016 - Thermal and Oxidation Responsive Polypeptide Materials
15:30-15:50	Lawrence Mzukisi Madikizela	SFP-O-019 - Multi-template molecularly imprinted polymer: Synthesis, characterization and removal of selected acidic pharmaceuticals from wastewater
15:50-16:10	Anna Isakova	SFP-O-022 - Design, synthesis and RAFT polymerisation of a quinoline-based monomer for use in metal-binding composite microfibers

July 19, 2016, Tuesday

Wallace Carothers Hall (Kasimpasa-5)

Session: Renewable Resources and Biopolymers

Chairman: Rameshwar Adhikari		
14:30-14:50	Neslihan Alemdar	RRB-O-005 - Oxygen-generating photocrosslinkable hydrogel for cardiac progenitor cells survival under hypoxic conditions
14:50-15:10	Yelda Meyva	RRB-O-023 - Blending of Polylactide with Different Elastomeric Materials for Toughening
15:10-15:30	Azlin Mohamad Azman	RRB-O-002 - Process control in the production of engineered palm-based fibreboard
15:30-15:50	Siti Fairus Mohd Yusoff	RRB-O-003 - Properties and Potential Applications of Modified Liquid Natural Rubber
16:00-16:30	BREAK	

July 20, 2016, Wednesday

Wallace Carothers Hall (Kasimpasa-5)

Session: Renewable Resources and Biopolymers

Chairman: Rameshwar Adhikari		
10:30-10:50	Alessandro Pellis	RRB-O-022 - <i>Thermobifida cellulosilytica</i> cutinase as a powerful tool for the synthesis and functionalization of biobased polyesters
10:50-11:10	Yeşim Müge Şahin	RRB-O-021 - Mechanical Properties of Marine Sourced Hydroxyapatite/ Polycaprolactone Electrospun Biocomposites
11:10-11:30	Zafer Söyler	RRB-O-024 - Catalytic Transesterification of Maize Starch with Plant Oils: Sustainable Access to Termoplastic Starches
11:30-11:50	Swapnil Shukla	RRB-O-010 - Sustainable Benzoxazine and Sulphur copolymers as Li-S Battery Cathode Materials
11:50-12:10	Jan-Georg Rosenboom	RRB-O-011 - High molecular weight polyethylene furanoate (PEF) synthesis via ring-opening polymerization

12:10-12:30	Ilknur Gönenç	RRB-O-012 - Evaluation of Thermal, Adsorption and Microstructural Properties of Corn Starch Based Cross-linked Composite Films
12:30-13:30	LUNCH	
Chairman: Rameshwar Adhikari		
14:30- 14:50	Erde Can	RRB-O-013 - Novel thermosetting resins based on cardanol
14:50- 15:10	Mohammad Asif Ali	RRB-O-014 - Syntheses of renewable polyamides with controlled optical activity from itaconic acid and amino acid
15:10-15:30	Ersen Göktürk	RRB-O-015 - Polyglycolic Acid and Its Copolymers from Cationic Polymerization of Formaldehyde and Carbon Monoxide
15:30-15:50	Katherine Stephanie Encalada Flores	RRB-O-017 - Mechanical Behavior Approach of Biodegradable Materials Based on Polyvinyl Alcohol, Achira (<i>Canna edulis</i>) Starch and Collagen Recovered from Leather Shavings
16:00-16:30	BREAK	
Chairman: Erde Can		
16:30-16:50	Gunasunderi Raju	RRB-O-026 - Preparation and Characterization of " <i>Hibiscus Cannabinus</i> " (Kenaf) Grafted Natural Rubber Based Composites via Latex Route
16:50-17:10	Brindusa Balanuca	RRB-O-019 - Design of new camelina oil-based hydrophilic monomers for novel polymeric materials
17:10-17:30	Dildare Basalp	RRB-O-020 - Renewable Resource based Biocomposites from Natural Luffa Cylindrica Fiber and Poly(hydroxybutyrate-co-valerate) Biopolymer

July 19, 2016, Tuesday

Michael Szwarc Hall (Balat)

Session: Polymer Engineering, Processing, and Characterization

Chairman: Giuseppe Titomanlio		
14:30-14:50	Sabu Thomas	PEPC-O-016 - Engineering at the Nanoscale: State of the Art, Challenges and New Opportunities
14:50-15:10	Ewa Kicko Walczak	PEPC-O-011 - Flame retardands nanocomposites synergy effect of combining conventional antypirenes with carbon nanofillers
15:10-15:30	Zitouni Safidine	PEPC-O-012 - Elaboration and characterization of nanostructured polyurethane rigid foams within the inclusion of O-MMT: impact and fire proof behavior
15:30-15:50	Enrique Herrero Acero	PEPC-O-019 - Exploiting mild enzymatic hydrolysis to functionalize synthetic polymers
15:50-16:10	Zehra Oluz	PEPC-O-020 - Optical Biosensing Applications on Molecularly Imprinted Poly (Methacrylic Acid-co-Cyanurate Ester) Nanorods via Thermal Polymerization
16:00-16:30	BREAK	

July 20, 2016, Wednesday

Michael Szwarc Hall (Balat)

Session: Polymer Engineering, Processing, and Characterization

Chairman: Sabu Thomas		
10:30-11:00	Giuseppe Titomanlio	PEPC-I-001 - Analysis and simulation of iPP morphology with fast temperature evolution at mold surface
11:00-11:20	Mohammad Taghipourfard	PEPC-O-010 - Determining the effect of width of waisted section on waisted tensile test specimen using HDPE non-linear elastic-plastic behaviour in FEA
11:20-11:40	Vishwa Pratap Singh	PEPC-O-002 - Rheological Behavior of HDPE/ Natural Needle Like Clay Nanocomposites Under Shear and Extensional Flow
11:40-12:00	A S Mohammad Sayem Mozumder	PEPC-O-003 - Optimization of injection molding process conditions while manufacturing of HDPE/TiO ₂ nanocomposites
12:00-12:20	Davut Demir	PEPC-O-021 - Simultaneously Improvement of the Mechanical Strength and Fractural Toughness Properties of Recycled Polycarbonate
12:20-12:40	Merve Dandan Doganci	PEPC-O-014 - Improving Mechanical and Thermal Properties of Poly(Lactic Acid) By Using POSS Cored Star-Shaped Poly(ϵ -Caprolactone) Polymers
12:30-13:30	LUNCH	
Chairman: Giuseppe Titomanlio		
14:30-15:00	Yakup Ulcer	PEPC-I-003 - Injection Molding of Slowly Crystallizing Polymers
15:00- 15:20	Chong Min Koo	PEPC-O-005 - Graphene-Based Polymer Nanocomposites for Thermal Conductivity and Electromagnetic Interference Shielding Applications
15:20-15:40	Jean Charles S�bibleau	PEPC-O-007 - Consolidation by Spark Plasma Sintering of Poly-Ether-Ether-Ketone

15:40-16:00	Padmanabhan Ramachandran	PEPC-O-008 - Structure- Property Relationship in Ethylene Octene Copolymer (EOC) - Polydimethyl Siloxane (PDMS) based TPEs for cable insulation applications
16:00-16:20	Kinsuk Naskar	PEPC-O-009 - Novel High Performance TPV: a new generation thermoplastic elastomer for automotive applications
16:00-16:30	BREAK	

July 18, 2016, Monday

Pierre-Gilles de Gennes Hall (Cibali-1)

Session: Polymer Physics

Chairman: Mehmet Sayar		
10:30-11:00	Andreas Walther	PP-I-001 - Static and Dynamic Bioinspired Material Systems
11:00-11:30	Mehmet Sayar	PP-I-005 - Interface Driven Conformational Change and Aggregation in Proteins/Peptides
11:30-11:50	Sara Aid	PP-O-003 - Study and modeling of the coalescence of two different polymer particles PVDF-PMMA
11:50-12:10	Jaime Martín	PP-O-004 - Rational manipulation of the microstructure of organic semiconductors by nanoscale confinement
12:10-12:30	Yanchun Han	PP-O-009 - Control over Microphase Separation, Crystallization and Molecular Orientation of All-Conjugated Diblock Copolymers
12:30-13:30	LUNCH	

July 20, 2016, Wednesday

Pierre-Gilles de Gennes Hall (Cibali-1)

Session: Polymer Physics

Chairman: Jiaping Lin		
10:30-11:00	Kurt Kremer	PP-I-002 - Topological constraints do matter: polymer melts, elastomers, collapsed polymer globules, chromosome territories etc
11:00-11:30	Natalie Stingelin	PP-I-003 - The principles of manipulating the phase transformations, solid-state order and properties of functional organic matter
11:30-11:50	Theo Tervoort	PP-O-005 - High-performance polyethylene fibers "al dente": improved gel-spinning of ultra-high molecular weight polyethylene using vegetable oils
12:30-13:30	LUNCH	

July 20, 2016, Wednesday

Otto Bayer Hall (Kasimpasa-3)

Session: Polymer Education

Chairman: Teoman Tincer		
10:30-11:00	Patrick Theato	PE-I-001 - Unifying the polymer curriculum at universities: Pros and Cons
11:00-11:30	Eric Goethals	PE-I-002 - The Rise of Polymer Science Education in Belgium
12:30-13:30	BREAK	
Chairman: Eric Goethals		
14:30-15:00	Teoman Tincer	PE-I-003 - A Brief History of Chemistry and Polymer Science in Turkey
15:00-15:20	Djafer Benachour	PE-O-001 - Impact of Nanotechnology on Higher Education Curricula: Cases of "Materials Science" and "Polymer Science & Engineering" Curricula
15:20-15:40	Emine Erdem	PE-O-002 - Awareness on polymers among high school students

July 19, 2016, Tuesday

Pierre-Gilles de Gennes Hall (Cibali-1)

Session: Industrial Polymers

Chairman: Huseyin Esen		
10:30-11:00	Andreas Taden	IP-I-001 - Polymer systems with latent reactivity for adhesive applications
11:00-11:20	Melek Bulut	IP-O-001 - Mechanical Properties of New Trends Thermotropic Liquid Crystalline Copolyesters with PET Blends
11:20-11:40	M. Göktug Ahunbay	IP-O-002 - <i>In-silico</i> Screening of Green Plasticizers for PVC
11:40-12:00	Varol Intasanta	IP-O-003 - Single-Step Multiple-Colloid Coating for Multifunctional Biodefense Textiles: A Novel Application in Mosquito-Borne Disease Prevention
12:30-13:30	LUNCH	
Chairman: Andreas Taden		
14:30-15:00	Yakup Ulcer	IP-I-004 - Trends in Compounding
15:00-15:20	Sonja Ketin	IP-O-004 - Up-to Date Procedures for Polypropylene Production
15:20-15:40	Gözde Salkıç	IP-O-005 - Optimization of Gas Phase Ethylene Polymerization: A Micro/Mini Reactor Study
15:40-16:00	Luis Alexandro Valencia Lopez	IP-O-006 - Isospecific polymerization of p-methylstyrene by means of a bis(phenolato)titanium based catalyst activated by MMAO: A systematic and kinetical study
16:00-16:30	BREAK	
Chairman: Luis Alexandro Valencia Lopez		
16:30-16:50	Emel Başkent	IP-O-007 - Investigation of Parameters Affecting the Bitumen Modifications by Using Response Surface Method
16:50-17:10	Gökhan Akbulut	IP-O-008 - Core-Shell Type Styrene-Acrylic Emulsions for Reduction of Formaldehyde Emission in Pigment Printing
17:10-17:30	Fatih Mehmet Erguney	IP-O-009 - Multifunctional polycarboxylate dispersants for the optimum soil anti-redeposition performance in new generation of powder detergents

July 20, 2016, Wednesday

Pierre-Gilles de Gennes Hall (Cibali-1)

Session: Industrial Polymers

Chairman: Andreas Taden		
14:30-15:00	Mustafa Yasin Sen	IP-I-005 - Novel Production of Aliphatic Polyketone in Water
15:00-15:20	Regis M. Gauvin	IP-O-010 - Bridges between homogeneous and heterogeneous catalytic systems for polyolefins production: design and advanced understanding of supported aluminic activators
15:20-15:40	Orcun Yucel	IP-O-011 - Nanoreinforced Rigid Polyurethane-Organoclay Composite and Characterization Thereof
15:40-16:00	Ilhan Özen	IP-O-012 - Fertilizer Release Profile of Pol(vinyl alcohol)/Ammonium Sulfate Coated Nonwoven Structures

July 19, 2016, Tuesday

Paul John Flory Hall (Cibali-2)

Session: Porous Polymer and Gels

Chairman: Peter Krajnc		
14:30-15:00	Oguz Okay	PPG-I-003 - Nanostructural evolution of self-healing hydrogels formed in micellar solutions
15:00-15:20	Luminita Marin	PPG-O-005 - Self-structuring chitosan-cinnamaldehyde hydrogels
15:20-15:40	Daniela Ailincai	PPG-O-006 - Dual crosslinked chitosan based hydrogels with efficient antifungal activity
15:40-16:00	Olga Philippova	PPG-O-007 - Self-assembled networks composed of polymer and supramolecular chains
16:00-16:30	BREAK	
Chairman: Oguz Okay		
16:30-17:00	Peter Krajnc	PPG-O-002 - Open porous composites and ceramic derivatives by emulsion templating
17:00-17:20	Mohammad Saleem Khan	PPG-O-008 - Synthesis of metal entrapped stable Polymeric hydrogels for catalytic reduction of organic dyes
17:20-17:40	Mostafa Rezaei	PPG-O-009 - Visual Observation on the Foaming Process of Styrene-Methyl Methacrylate Copolymer / n-Pentane system Using Temperature Increment
17:40-18:00	Sadik Kaga	PPG-O-015 - Dendron-polymer conjugates as precursors for designing functional hydrogels

July 20, 2016, Wednesday

Paul John Flory Hall (Cibali-2)

Session: Porous Polymer and Gels

Chairman: Oguz Okay		
10:30-10:50	Cafer T Yavuz	PPG-O-001 - Chemistry in the confined spaces of porous polymers
10:50-11:10	Musa Şölenler	PPG-O-004 - Synthesis and characterization of new polymeric HPLC column
11:10-11:30	Tom Hasell	PPG-O-011 - Porous inverse vulcanised polymers for mercury capture
11:30-11:50	Mehmet Murat Ozmen	PPG-O-013 - Preparation and Antimicrobial Properties of Macroporous Polypeptide-based Cryogels
11:50-12:10	Ahmet Erdem	PPG-O-014 - Evaluations of molecular weight and reduction effects on Jeffamine-glutaraldehyde cryogels for potential application as scaffolds in cartilage tissue engineering
12:10-12:30	Onur Buyukcakil	PPG-O-010 - Porous Polymers For CO ₂ Capture and Conversion
12:30-13:30	LUNCH	

July 18, 2016, Monday

Paul John Flory Hall (Cibali-2)

Session: Modeling and Simulation of Polymers

Chairman: Juan J De Pablo		
10:30-11:00	Murugappan Muthukumar	MSP-I-001 - Simulation-Directed Discoveries of Concepts in Polymers: Primordial Nucleation, Translocation, and Charged Macromolecular Assemblies
11:00-11:30	Burak Erman	MSP-I-002 - Rubber Elasticity and Protein Behavior
11:30-12:00	Masao Doi	MSP-I-003 - Onsager Principle -A useful principle in soft matter dynamics
12:00-12:20	Stefano Valdo Meille	MSP-O-007 - Determining and modelling polymer crystal structures: the perspective of a polymer crystallographer
12:30-13:30	LUNCH	
Chairman: Murugappan Muthukumar		
14:30-15:00	Juan J De Pablo	MSP-I-004 - Directed Assembly of Polymeric Materials - Non-Equilibrium States and On-The-Fly Characterization of Assembly
15:00-15:30	Paola Carbone	MSP-I-005 - Thermodynamics and dynamics of polymers at soft interfaces
15:30-15:50	Gökhan Kaçar	MSP-O-003 - Hierarchical multi-scale simulation approaches for properties of polymers at different interfaces
16:00-16:30	BREAK	
Chairman: Masao Doi		
16:30-17:00	Guido Raos	MSP-I-006 - Glassy and nonlinear dynamics of polymers on random and patchy surfaces
17:00-17:20	Ping Tang	MSP-O-008 - Study on the physics of polymer crystallization based on the rod-coil multi-blocks chain model
17:20-17:40	Isa Degirmenci	MSP-O-006 - The Unusual Contrasting of the Same Group Element Chemical Behavior
17:40-18:00	Ashok Kumar Dasmahapatra	MSP-O-009 - Crystallization of Double Crystalline Binary Polymer Blends

POSTER PROGRAM

Poster Session 1 / July 18, 2016 - Monday	
RDPS-A	Recent Developments in Polymer Synthesis-A-Controlled/Living Polymerization
RDPS-B	Recent Developments in Polymer Synthesis-B-Complex Macromolecular Structures
RDPS-C	Recent Developments in Polymer Synthesis-C-Light-induced Reactions in Polymer Science
RDPS-D	Recent Developments in Polymer Synthesis-D-Condensation Polymerization and Thermoset
PCNCT	Polymer Characterization by New and Combined Techniques
MN	Macromolecules & Nanotechnology
MBM	Macromolecules in Biotechnology & Medicine
EOO	Energy, Optics, & Optoelectronics
Poster Session 2 / July 19, 2016 - Tuesday	
PPBM	Polymer and Polymer-Based Membranes
SFP	Smart and Functional Polymers
RRB	Renewable Resources and Biopolymers
PEPC	Polymer Engineering, Processing, and Characterization
PP	Polymer Physics
IP	Industrial Polymers
PPG	Porous Polymer and Gels
MSP	Modeling and Simulation of Polymers

Recent Developments in Polymer Synthesis A-Controlled/Living Polymerization	
RDPS-A-P-003	One-step synthesis of a mid-chain functional macrophotoinitiator of a polystyrene-poly(ϵ -caprolactone) diblock copolymer via simultaneous ATRP and ROP using a dual-functional photoinitiator <u>Mustafa Degirmenci</u> , Mustafa Durgun, Zafer Uyar
RDPS-A-P-004	Synthesis of an A2B2 Type Star-shaped Copolymer by Combination of ROP, Click Chemistry and Photoinitiated Polymerization <u>Zafer Uyar</u> , Mustafa Değirmenci, Bahattin Abacı
RDPS-A-P-005	Structure-Activity Relationships in Squaramide Catalyzed Ring Opening Polymerization of Lactide: The Effect of Tertiary Amine Group <u>Ali Rostami</u> , Shaghayegh Ahmadi, Elahe Sadeh
RDPS-A-P-006	Simplifying the synthesis of polypeptoids <u>Afroditi Doriti</u> , Sarah Mae Brosnan, Helmut Schlaad
RDPS-A-P-007	Surface Properties of Silicon Disc Coated with Fluoro-Based Polymers <u>Mehtap Evci</u> , Tuncer Caykara
RDPS-A-P-008	Preparation of Polyhedral Oligomeric Silsesquioxane (POSS) Materials with Fluorogenic Boronic Acid <u>Ahmet Gultek</u> , Selda Sezer, Turgay Seckin, Fadime Nilufer Kivilcim
RDPS-A-P-009	Preparation of stereoblock olefin copolymers and their model blends with high impact polypropylene <u>Anatolij Sokolohorskyj</u> , Pavla Doubravová, Zdeněk Buráň, Jan Merna
RDPS-A-P-010	Hydrophilic Pentablock Copolymers Synthesized by One-Pot RAFT Polymerization of Methacrylates Povilas Radzevicius, Medeina Steponavičiute, Tatjana Krivorotova, <u>Ricardas Makuska</u>
RDPS-A-P-011	Star Polymers; Synthesis, Characterization and Applications <u>Cansel Tuncer</u> , Vural Bütün
RDPS-A-P-012	Synthesis of Highly Crosslinked Polymers and Their Usage as Dye Adsorbent Surfaces <u>Mehtap Kılınc</u> , Cansel Tuncer, Vural Bütün
RDPS-A-P-013	Synthesis and Solution Behavior of a Novel Polymer of Phosphorus Containing <u>Yasemin Samay</u> , Vural Bütün
RDPS-A-P-014	Synthesis, Characterization and Antibacterial Activity of Reduced Graphene Oxide-Poly(n-butylacrylate-block- n-vinylpyrrolidone) Nanocomposite Films <u>Elif Vargün</u> , Cihan Açık, Emine Sonay Elgin
RDPS-A-P-015	α -Diimine binuclear Ni-based catalysts for ethylene polymerization: effect of ortho-substituent <u>Mostafa KHOSHSEFAT</u> , Saeid Ahmadjo, Seyed Mohammad Mahdi Mortazavi, Gholamhossein Zohuri, Majid Zahmaty, Khosrow Valieghbal
RDPS-A-P-016	Towards "Ultimate Control": Controlled Radical Polymerization in Pores Towards Length, Sequence and Tacticity Defined Macromolecules Hui Chun Lee, Bernhard V. K. J. Schmidt, Markus Antonietti
RDPS-A-P-017	TBD catalyzed ring-opening polymerization in microreactor <u>Ning Zhu</u> , Xin Hu, Weiyang Feng, Kai Guo
RDPS-A-P-018	Synthesis and Characterization of Poly(n-butyl acrylate)-b-Poly(4-vinyl pyridine) Block Copolymers <u>Hümeyra Mert</u> , Nicolay V. Tsarevsky, Krzysztof Matyjaszewski
RDPS-A-P-019	Synthesis and characterization of antibacterial polysulfone via photoiniferter method <u>Serhat Oran</u> , Mehmet Atilla Tasdelen

RDPS-A-P-020	Modification of Cell Culture Dishes by Consecutive Grafting of Poly(AAm)/ Poly(NIPAAm) for Cell Sheet Recovery <u>Murat Barsbay</u> , Olgun Güven
RDPS-A-P-021	Well-defined Proton Exchange Membranes with enhanced performance via RAFT polymerization Gökçe Çelik, <u>Murat Barsbay</u> , Olgun Güven
RDPS-A-P-023	Synthesis and application of magnesium and zinc complexes with imino(phenoxide) ligands in L-lactide polymerization <u>Marcos Lopes Dias</u> , Alana L. C. Oliveira, Leonardo C. Ferreira, Marco A. Chaer Nascimento, Rodrigo S. Bitzer, Iryna Grafova, Andriy Grafov
RDPS-A-P-024	The First Successful Cyclopolymerization of 1,6-Heptadiynes by Grubbs 1st Generation Catalyst <u>Cheol Kang</u> , Eun Hye Kang, Tae Lim Choi
RDPS-A-P-027	RAFT Polymerization of Styrene mediated by Diphenyl Functionalized RAFT Agents <u>Teboho Simon Motsoeneng</u> , Gabriel Jeffrey Summers, Carol Ann Summers
RDPS-A-P-028	Novel Poly(methylmethacrylate)-Based Two-Armed Macroinitiators via ATRP: Synthesis and Characterization <u>Çiğdem Yağcı</u> , Murat Mısır, Ahmet Bilgin, Nagihan Acierik
RDPS-A-P-029	Synthesis of Linear and Star Shaped Block Copolymers with ϵ -caprolactone and L-lactide by using Bismuth(III)Acetate Catalyst <u>Dildare Basalp</u> , Funda Tihminlioğlu
RDPS-A-P-030	Graft copolymers from commercial chlorinated polypropylene via Cu(0)-mediated ATRP <u>Gokhan Acik</u> , Mehmet Atilla Tasdelen
RDPS-A-P-031	Synthesis and Characterization of New Olefinic Block Copolymers <u>Mahsa Karimi</u> , Ali Ebrahimi, Mostafa Ahmadi, Saeid Ahmadjo, Majid Zahmati, Khosrow Valieghbal, Mohammad Mahdi Mortazavi
RDPS-A-P-032	Polymer Bottlebrushes with Complex Architecture as Templates for Nanoparticle Synthesis <u>Yaoming Zhang</u> , Joanna Pietrasik, Krzysztof Matyjaszewski
RDPS-A-P-033	Ethylene polymerization using a binary catalytic system; activity and microstructure study <u>Mostafa Khoshsefat</u> , Saeid Ahmadjo, Mohammad Mahdi Mortazavi, Gholamhossein Zohuri, Meisam Haghpanah
RDPS-A-P-034	One-pot synthesis of well-defined polyether/polyester block copolymers and terpolymers by a highly efficient catalyst switch approach <u>Haleema Alamri</u> , Nikos Hadjichristidis
Recent Developments in Polymer Synthesis B-Complex Macromolecular Structures	
RDPS-B-P-001	Theoretical investigation of organic schiff base compounds on corrosion inhibition of copper Saifi Issaadi, <u>Tahar Douadi</u>
RDPS-B-P-002	SYNTHESIS, SPECTROSCOPY, X-RAY CRYSTALLOGRAPHY, ELECTROCHEMISTRY AND THEORETICAL INVESTIGATION OF A TETRADENTATE COPPER SCHIFF BASE COMPLEX Cu ₂ L ₂ .2H ₂ O <u>Samra Rahmouni</u> , Amel Djedouani, Salima Thabti, Abderrahmen Bendaas
RDPS-B-P-003	Ring-Opening Reactions of Backbone Epoxidized Polyoxanorbornene <u>Ufuk Saim Gunay</u> , Erhan Demirel, Gurkan Hizal, Umit Tunca, Hakan Durmaz
RDPS-B-P-004	Post-Functionalization Of Perfluorophenyl Ester-Functional Acyclic Diene Metathesis Polymer <u>Ozgun Daglar</u> , Hakan Durmaz, Gurkan Hizal, Umit Tunca

RDPS-B-P-005	<p>Main Chain Post-Functionalization of Reactive Triple Bond Containing Polyester via Diels-Alder Cycloaddition Reactions <u>Cansu Esen</u>, Ozgun Daglar, Muge Cetin, Hakan Durmaz, Gurkan Hizal, Umit Tunca</p>
RDPS-B-P-006	<p>Active Ester Substitution And Nitrene Addition Reactions On To Multiwalled Carbon Nanotubes For Double Modification <u>Pinar Sinem Omurtag</u>, Hakan Durmaz, Gürkan Hizal, Ümit Tunca</p>
RDPS-B-P-007	<p>Multiarm Star Polymer as Novel Polymeric Photoinitiator for Free Radical Polymerization <u>Neşe Çakır</u>, Duygu S. Esen, Ümit Tunca, Nergis Arsu, Gürkan Hizal</p>
RDPS-B-P-008	<p>Synthesis and Self-Assembly of Fluorene-Vinylene Alternating Copolymers in "Hairy-Rod" Architecture: Side Chain – Mediated Tuning of Conformation, Microstructure and Photophysical Properties <u>Demet Göen Colak</u>, Ioan Cianga, Luminita Cianga, Yusuf Yagci</p>
RDPS-B-P-009	<p>Synthesis of Dendronized Polymers Containing Polyphenylene Dendron via Macromonomer Approach by ROMP and Their Characterization <u>Ki Taek Bang</u>, Inho Choi, Tae Lim Choi</p>
RDPS-B-P-010	<p>Synthesis of Polythioether with Clickable Side Chain Through Thiol Michael Condensation Reaction <u>Serter Luleburgaz</u>, Hande Tinas, Hakan Durmaz, Umit Tunca, Gurkan Hizal</p>
RDPS-B-P-011	<p>Synthesis and characterization of porphyrin containing commercial polymers <u>Aylin Bilgili</u>, Fehmi Saltan, Hakan Akat</p>
RDPS-B-P-012	<p>Coacervation between biopolymers Ayse Basak Kayitmazer, Alaaddin Faruk Koksal, Elif Kilic Iyilik, <u>Fatma Akcay Ogur</u></p>
Recent Developments in Polymer Synthesis C-Light-induced Reactions in Polymer Science	
RDPS-C-P-002	<p>Synthesis and evaluation of novel thioxanthone-based methacrylic acids <u>Tuğçe Nur Eren</u>, Duygu Avci, Jacques Lalevée</p>
RDPS-C-P-003	<p>Extension of Linear PIBs to Higher Molecular Weight Linear and Network Products via Thiol-ene Chemistry <u>Elif Kurnaz</u>, Nihan Nugay, Turgut Nugay, Joseph P. Kennedy</p>
RDPS-C-P-004	<p>The use of 1-(2-anthryl)-1-phenylethylene moiety at the chain end to perform chain extension and block copolymerization reactions <u>Çimen Özgüç</u>, Yusuf Yağcı, Turgut Nugay</p>
RDPS-C-P-005	<p>Synthesis of Clickable Hydrogels and Linear Polymers by Type II Photoinitiation <u>Mustafa Ciftci</u>, Eljesa Murtezi, Yusuf Yagci, Yusuf Yagci</p>
RDPS-C-P-006	<p>Dibenzoyldiethylgermane as a Visible Light Photo-reducing Agent for CuAAC Click Reactions <u>Mustafa Arslan</u>, Gorkem Yilmaz, Yusuf Yagci</p>
RDPS-C-P-008	<p>Visible and LED Light-Induced Metal Free ATRP Using Electron Acceptor Dyes in Conjunction with Amines <u>Ceren Kutahya</u>, F. Simal Aykac, Gorkem Yilmaz, Yusuf Yagci</p>
RDPS-C-P-009	<p>Benzodioxinone Photochemistry for Macromolecular Synthesis <u>Volkan Kumbaraci</u>, Naciye Talinli, Yusuf Yagci</p>
RDPS-C-P-011	<p>The investigation of photophysical and photochemical properties of thioxanthone-anthracene -9-carboxylic acid <u>Saliha Mutlu</u>, Tolga Çeper, Nergis Arsu, Shigeru Takahara</p>

RDPS-C-P-012	Photocoating in The Presence of Organosilica Nanoparticles from 3-Mercaptopropyltrimethoxysilane <u>Nurcan Karaca</u>
RDPS-C-P-013	Synthesis of a novel benzophenone derived UV absorber acrylate monomer <u>Tuğrul Cem Bıçak, Ersin Acar</u>
RDPS-C-P-014	Photo-initiated Metal-Free Controlled Living Radical Polymerization Using Polynuclear Aromatic Compounds <u>Andrit Allushi, Steffen Jockusch, Gorkem Yilmaz, Yusuf Yagci, Yagci Yagci</u>
RDPS-C-P-015	Novel photoinitiators based on Irgacure 2959 and methacrylates <u>Sesil Çınar, Duygu Avcı, Viktorya Aviyente</u>
RDPS-C-P-016	Synthesis of Hyperbranched Polymer Using Benzodioxine Chemistry <u>Cansu Aydoğan, Mustafa Ciftci, Volkan Kumbaracı, Naciye Talınlı, Yusuf Yagci</u>
RDPS-C-P-017	Photoinitiated Radical Polymerization with Iodonium Salts Bearing Polymerizable Anions <u>Annett Halbhuber, Bernd Strehmel</u>
RDPS-C-P-018	Synthesis of 1D tubular polymers by a supramolecular polymerization approach <u>Hao Yu, Robert Häner</u>
RDPS-C-P-019	Synthesis of Amide Linkage Directly from Aldehyde and Amines by Visible Light Photocatalysis <u>Naeem Iqbal</u>
Recent Developments in Polymer Synthesis D-Condensation Polymerization and Thermoset	
RDPS-D-P-001	Synthesis, Characterization and Spectroscopic Investigation of Novel Nanoporous Pyrazinoporphyrazine Network Polymer-Supported Metal (II)-Based Catalysts <u>Hamada H Abdel Razik, Basim H Asghar</u>
RDPS-D-P-002	Epoxy Functionalized Hyperbranched polyurethane and its co-curing with benzoxazine: cure kinetics and thermal properties <u>Yichao Wang, Xue Jiang, Yuhong Liu</u>
RDPS-D-P-004	Blocked triazolinediones for easy handling, heat curable network formulations <u>Lucie Imbernon, Hannes A. Houck, Hannes A. Houck, Filip E. Du Prez</u>
RDPS-D-P-005	Synthesis and characterization of amphiphilic Polyglycerol sebacate derivatives <u>Merve Gultekinoglu, Kezban Ulubayram</u>
RDPS-D-P-006	Synthesis, Characterization and Investigation of Thermal Properties of POSS Containing Graphene/Polycaprolactone Composites <u>Fehmi Saltan, Aylin Bilgili, Hakan Akat</u>
RDPS-D-P-007	SYNTHESIS and CHARACTERIZATION of WATERBORNE, BRANCHED, FUNCTIONAL POLYURETHANES for TEXTILE COATING APPLICATIONS <u>Ayşe Durmuş, Deniz Anıl, Yusuf Menceloğlu, Serkan Ünal</u>
RDPS-D-P-008	Synthesis and Characterization of Novel Cyclomatrix-Type Polyphosphazene Microspheres Cross Linked With Octachlorocyclotetraphosphazene via Self-Assembly Approach <u>Simge Metinoglu, Yasemin Süzen</u>
RDPS-D-P-009	Preparation and Characterization of Tyramine Based Inorganic-Organic Hybride Polyphosphazene Microspheres <u>Simge Metinoglu, Yasemin Süzen</u>
RDPS-D-P-010	Investigating cure advancement of a dual-cure Polyurethane-Acrylate (PUA) coatings used for metal substrates <u>Babak Kaffashi, Mohsen Sarrafi</u>

Polymer Characterization by New and Combined Techniques	
PCNCT-P-001	<p>Characteristics and synthesis of fluorene copolymer thin films via plasma polymerization <u>Utku Özenir</u></p>
PCNCT-P-002	<p>Polyether Polyols as GPC Calibration Standards for Determination of Molecular Weight Distribution of Polyether Polyols <u>Mohd Azmil Mohd Noor</u>, Vahid Sendjarevic, Hazimah Abu Hassan, Ibrahim Sendjarevic, Tuan Noor Maznee Tuan Ismail, Seng Soi Hoong, Nurul 'ain Hanzah, Razmah Ghazali</p>
PCNCT-P-003	<p>Determination of linear programmed temperature gas chromatography retention indices for some plasticizers <u>Farhi Halaimia</u>, Imane Lakehal</p>
PCNCT-P-004	<p>Sorbent for concentrating lead(II) <u>Rafiq Alirza Aliyeva</u>, Nazila Sadiq Huseynova, Ulviya Murshud Abilova, Famil Musa Chiragov</p>
PCNCT-P-005	<p>preparation and application of biocompatible carrier implant to be used in the controlled purchase of clindan <u>Hesna Ural Kayalik</u>, Çınar Erdem, Sema Çetin</p>
PCNCT-P-006	<p>preparation and application of biocompatible carrier implant to be used in the controlled purchase of vincristine <u>Hesna Ural Kayalik</u>, Şule Balcı, Sema Çetin</p>
PCNCT-P-007	<p>Effects of seed coating(by polymer A200) on germination speed of Astragalus adscendens under different moisture conditions and Planting depth in the Boroujerd region <u>Hamidreza Mehrabi</u>, Mandana Rezaee</p>
PCNCT-P-008	<p>Application of electrochemically-prepared polypyrrole as heavy metals sensor <u>Lo Momath</u>, Sall Lamine Mohamed, Diaw Karim Diagne Abdou, Niang Matar, Fall Mamadou, Sall Guingue Diariatou, Aaron Jacques Jean, Chehimi Mehdi Mohamed</p>
PCNCT-P-009	<p>Correlating Crystallization Kinetics and Rheological Properties of Polyethylene Using a Newly Developed Low-Field RheoNMR Combination <u>Mürüvvet Begüm Özen</u>, Karl Friedrich Ratzsch, Volker Raentzsch, Iakovos Vittorias, Nehir Kavak, Patrick Kurt Dannecker, Michael A. R. Meier, Manfred Wilhelm</p>
PCNCT-P-010	<p>Influence of Conformation of Hyaluronic Acid in Solution on Proton Mobility <u>Gökçe Mihlac</u>, Davide Ret, Stefano Gentilini, Simone Knaus</p>
PCNCT-P-011	<p>Synthesis and monomer reactivity ratios of 3-(trimethoxysilyl) propyl methacrylate-co-N-vinyl pyrrolidone copolymer <u>Mansor B. Ahmad</u>, Ameen Hadi Mohammed, Nor Azowa Ibrahim, Norhazlin Zainoddin</p>
PCNCT-P-012	<p>Well-defined polyethylene-based graft terpolymers by combining nitroxide-mediated radical polymerization, polyhomologation and azide/alkyne "click" chemistry <u>Nazeeha Suliman Alkaya</u>, Hakan Durmaz, Umit Tunca, Nikos Hadjichristidis</p>
PCNCT-P-013	<p>Functionalization of nanocarbons for using as fillers with epoxy resin <u>Sonam Tamang</u>, Sabita Shreshtha, André Wutzler, Ralf Lach, Wolfgang Grellmann, Rameshwar Adhikari</p>
PCNCT-P-014	<p>Depth-sensing Macroindentation Test and Stepped Isothermal Method – Accelerated Assessment of the Local Retardation Behaviour of Thermoplastic Polymers <u>Ralf Lach</u>, Tobias Krolopp, Jan Schoene, Stephan Arndt, Beate Langer, Wolfgang Grellmann</p>

PCNCT-P-015	<p>Impact of Block Length and Temperature Over Self-assembling Behavior of Block Copolymers <u>Samia A Kosa</u>, Laila M. Al Harbi, Musa Kaleem Baloch, Irfan Ullah, Elsayed H. El Mossalamy</p>
PCNCT-P-016	<p>Ink Identification by ToF Secondary Ion Mass Spectroscopy <u>Dimitre Karpuzov</u></p>
PCNCT-P-017	<p>Separation and Characterization of Branching of Water-Soluble Polyelectrolytes by Capillary Electrophoresis in the Critical Conditions <u>Jean Baptiste Henri Lena</u>, Gregory Thomas Russell, Patrice Castignolles, Joel Thevarajah, Alison Maniego, Marion Gaborieau</p>
PCNCT-P-020	<p>Synthesis, characterization and kinetics of adsorption of metal ions onto copoly(amide-thioamide)s <u>Tabak Ghezalla</u>, Nassima Khellafi, Fatima Zohra Ramdane</p>
Macromolecules & Nanotechnology	
MN-P-001	<p>Preparation of nanometer CoFe₂O₄ by co-precipitation using different precipitants and its characterization Yasmina Bellal Hammiche, <u>Laaldja Boukhobza Meddour</u>, Amar Djadoun, Nadia Henda, Ahmed Ezzine Hassanine, Fateh Mernache, Mohamed Sennour, Marie H�el�ene Berger, Abdennour Meddour, Aline Auroux</p>
MN-P-002	<p>Preparation and characterization of cobalt spinel ferrite obtained by hydrothermal treatment Yasmina Bellal Hammiche, <u>Laaldja Boukhobza Meddour</u>, Amar Djadoun, Amel Benadda, Marie H�el�ene Berger, Mohamed Sennour, Aline Auroux</p>
MN-P-003	<p>In-Situ Preparation of Thermoset/Clay Nanocomposites by Thiol-Epoxy Click Chemistry <u>Ozlem Purut</u>, Mehmet Atilla Tasdelen</p>
MN-P-004	<p>Synthesis and characterization of nanocomposite materials based on poly(4-Vinylpyridine) and two different Algerian clays: via in situ polymerization <u>Fayçal Dergal</u>, Djahida Lerrari, Ali Mansri, Kheldoun Bachari</p>
MN-P-005	<p>Synthesis and Application of Anisotropic Particles <u>Huarong Liu</u>, Fangwei Wang, Ruikun Wang</p>
MN-P-006	<p>Effect of precursors influence on the distribution of active fractions of nanocatalysts <u>Tokhir Khakim Rakhimov</u>, Mukhtorjon Ganievich Mukhamediev</p>
MN-P-007	<p>Core shell carbon nanotubes/silver monohybrids coated with polypyrrole designed via interfacial chemistry of aryl diazonium salts and ultrasonic pathway <u>Mekki Ahmed</u>, Achour Sabrina, Ihdene Zaher, Mahmoud Rachid, Chehimi Mohamed.mehdi</p>
MN-P-008	<p>Large-Area Reduced Graphene Oxides with Excellent Thermal Conductivity and Electromagnetic Interference Shielding Effectiveness <u>Soon Man Hong</u>, Pradip Kumar, Chong Min Koo</p>
MN-P-009	<p>The Preparation of Some New 1H-Tetrazole Derivatives and Their Attaching on Nano Spheres <u>Nurdan Kurnaz Yetim</u>, Elvan Hasanođlu �zkan, Murat G�m�s, Ali Diřli, Nurřen Sari</p>
MN-P-010	<p>Dendrimers: Synthesis, Immobilization and Applications of Pesticide <u>Nurdan Kurnaz Yetim</u>, Nurřen Sari</p>
MN-P-011	<p>Immobilization of Acetylcholinesterase on Macromolecule for Pesticide Control <u>Elvan Hasanođlu �zkan</u>, Nurdan Kurnaz Yetim, Murat G�m�s, Ali Diřli, Nurřen Sari</p>

MN-P-012	Synthesis of Novel Dendron Based on Ferrocene, Immobilization of Enzyme and First Investigation as Catalytic of Glucose in Artificial Urine <u>Elvan Hasanoglu Özkan, Nurşen Sari</u>
MN-P-013	Polymeric submicron particles via self-assembly and crosslinking of double hydrophilic poly(ethylene oxide)-b-poly(N-vinyl pyrrolidone) in aqueous solution <u>Jochen Willersinn, Markus Antonietti, Bernhard V. K. J. Schmidt</u>
MN-P-014	Synthesis, Characterization and Antimicrobial Evaluation of Silver nanoparticles embedded Alkyd resin derived from Neem seed oil <u>Haruna Musa, Aminu Magaji</u>
MN-P-015	New complex compounds of functionalized Dehydroacetic acid units and N,N dimethyl amino benzaldehyde: the synthesis, catecholase study and electrochemical properties <u>Tabti Djitli Salima, Djedouani Amel, Djedouani Amel, Rahmouni Samra, Romdhane Samir</u>
MN-P-016	Preparation and Evaluation of a Novel Bio-Based Waterborne Polyurethane Nanoparticles for Sustained Delivery of Raloxifene- Hydrochloride <u>Mohammad Reza Nabid, Niloofar Babanejad, Ismail Omrani</u>
MN-P-018	Antimicrobial and antifungal potential of ecofriendly synthesized silver nanoparticles using Lagenaria siceraria fruit <u>Amara Dar, Parsa Dar, Usama Waqas</u>
MN-P-019	Sensing of Crack and Crack Size in CNT Buckypapers <u>Tulay Bal Demirci, Elif Avcu, Fatih Turan, Koray Gürkan, Yener Taşkın, Alaattin Aktaş</u>
MN-P-020	Preparation and research of multiphase systems: sodium silicate solute/polymer component/nanoparticles <u>Shukhrat Kurbanbaev, Sukhrob Telyaev, Olga Trunilina, Sirojiddin Mirzaev</u>
MN-P-021	Thermal resistant cellulose fiber via graphene/polyvinyl phosphonic acid nanocomposite <u>Zoha Nooralian, Mazeyar Parvinzadeh Gashti, Zahra Saeedi, Izadyar Ebrahimi</u>
MN-P-022	Synthesis of Gold Nanoparticles with Core Cross-Linked Micelles <u>Gökhan SOLMAZ, Gökhan Kocak, Vural Bütün</u>
MN-P-023	In-Situ Preparation of Cr2O3 Nanoparticles by Photopolymerization Technique <u>Hicret Kirtay, Nergis Arsu</u>
MN-P-024	Polysiloxane Nanofilament Growth on Glass <u>Esra Kasapgil, E. Gozde Atici, Ilke Anac, H. Yildirim Erbil</u>
MN-P-025	Magnetically activated microcapsules – preparation and characterization <u>Malgorzata Natalia Kostrzewska, Søren Hvilsted, Anne Ladegaard Skov</u>
MN-P-026	Thermal Conductive Polymer Nanocomposites Containing Boron Nitride <u>Tuba Erdogan Bedri</u>
MN-P-027	Photochemically produced self-assembled Ag nanoparticles on calf thymus DNA chains <u>Eyüp Metin, Gönül Saadet Bathbay, Neşe Atacı, Nergis Arsu</u>
MN-P-028	Synthesis of Modified Multi Walled Carbon Nanotubes with Hydroxy Substituted Schiff Bases and Investigation of the Adsorption Properties <u>Tulay Bal Demirci, Elif Avcu</u>
MN-P-029	Amphiphilic Polymer-Enabled Nanometal Synthesis, Morphogenesis, and Colloidal Stabilization <u>Paschalis Alexandridis, Toshio Sakai</u>

MN-P-030	Poly(2-hydroxyethyl methacrylate) nanocomposite hydrogel filled with fluorescent halloysite nanotubes <u>Bruno F Urbano</u> , Libnny Belmar, Leandro Toledo, Susana Sánchez
MN-P-031	A new insight into producing electromagnetic shielding cotton via graphene spraying <u>Zahra Saeidi</u> , Mazeyar Parvinzadeh Gashti, Zoha Noralian, Izadyar Ebrahimi
MN-P-032	Photochemically Prepared Silver/Polymer Nanocoatings by using 2-(Carboxymethoxy)thioxanthone <u>Yasin Ogün Beydoğan</u> , Melisa Adibelli, Nergis Arsu
MN-P-033	Synthesis and Characterization of a Polymer with Unsymmetrical Zinc Phthalocyanines as Terminal Group <u>Yunus A Sütcüler</u> , Tuba Ç Çanak, Altuğ M Sevim, Ersin I Serhatlı, Ahmet Gül
MN-P-034	Synthesis of a Novel Internal Emulsifier Derived from plant Oil for the Preparation of Bio-based Polyurethane Nanoparticles and Their Application in Coatings <u>Mohammad Reza Nabid</u> , Ismail Omrani, Niloofar Babanejad, Hasan Kashef
MN-P-035	Photochemical preparation of gold and platinum nanoparticles <u>Gönül Saadet Batıbay</u> , Nergis Arsu
MN-P-036	Polymer Supported Ligand for Visual Detection of Trace Levels of Hg(II) & Pb(II) Ions in Aqueous Media <u>Roya Sedghi</u> , Susan Kazemi, Bahareh Heidari
MN-P-037	Study of anti-cancer drug release (tamoxifen) of the nanofibers made of poly-caprolactone -chitosan <u>Zahra Saeidi</u> , Ali Ashjaran, Seyed Ali Reza Dabirsiyaghi
MN-P-038	Chiral Porphyrin Macrocyclic Catalysts for the Processive Oxidation of Polymer Substrates <u>Shaji Varghese</u> , Alan E. Rowan, Roeland J. M. Nolte
MN-P-039	One-step formation of w/o/w multiple emulsions stabilized by the mixture of biopolymers <u>Soumia Seddari Kalache</u>
MN-P-040	Biomimetic synthesis of calcium iodate/gelatin nanocomposites by gel growth approach <u>Naeimeh Dehghan</u> , Mazeyar Parvinzadeh Gashti
MN-P-041	The Use of Gold Nanoparticle Conjugated Porous Glycidyl Methacrylate Microparticles For Phenol Removal <u>Eda Aşık</u> , Ali Tuncel, Ayşegül Aşkın
MN-P-042	A homopolymer grafted-graphene oxide nanosheet in superior stress transfer in immiscible polymer blends <u>Goutam Prasanna Kar</u> , Suryasarathi Bose
MN-P-043	POLYMER BASED CARBON NANOTUBES AS GAS SENSOR: ACETONE and TOLUENE <u>Elif Baysak</u> , Muge Yucel, Umit Hakan Yildiz, Gurkan Hizal
MN-P-044	Electrospray Finishing of Alcohol Repellent Materials on Non-woven Fabrics and Investigation of Performance Properties <u>Semih Özgeç</u> , Ali Kireççi
MN-P-045	In-situ Preparation of Poly(2-ethyl-2-oxazoline)/clay Nanocomposites via Living Cationic Ring-Opening Polymerization <u>Umut Ugur Ozkose</u> , Cagatay Altinkok, Ozgur Yilmaz, Onur Alpturk, Mehmet Atilla Tasdelen
MN-P-046	Facile Modification Of Reactive Electrospun Nanofibers Using "Click" Chemistry <u>Özlem Ipek Kalaoğlu Altan</u> , Rana Sanyal, Amitav Sanyal
MN-P-047	Nano Silica-Polyurethane Composite Materials for Coating Application <u>Mohammed A Bahattab</u> , Jose M Martin Martinez

MN-P-048	Preparation of mixed polyacrylonitrile-polycaprolactone nanofiber mats for seperation purposes <u>Sündüz Alemdar</u> , Cansu Çelik, Nursel Pekel Bayramgil
MN-P-049	Silane Modified Surfaces for Biological Imaging by AFM <u>Nilüfer Kivılcım</u> , Fatma Bilge Emre, Turgay Seçkin
MN-P-050	Hydrophilic Nano SiO ₂ – based Composite Hydrogels for Biomedical Purposes <u>Özge Fatma Gökmen</u> , Nursel Pekel Bayramgil
MN-P-051	Synthesis, Characterization and Photocatalytic Activity of Halloysite-TiO ₂ Nanocomposites <u>Özlem Karahan</u> , Nalan Bilgin Öncü, Alp Yürüm, Güliz Inan Akdemir, Cleva W. Ow Yang, Ismail Koyuncu, Yusuf Menceloğlu, Serkan Ünal
MN-P-052	Fluorescent electrospun nanofibers from dansyl-functional [poly(methyl methacrylate-co-(2-hydroxethylmethacrylate)] ₂ -b-poly(ethylene glycol) terpolymer <u>Hilal Kuday</u> , Okan Günaydın, Mesut Görür
MN-P-053	Superior osseo activity on TiO ₂ via polymer brush-strontium coatings <u>Sergio E Moya</u> , Danijela Gregurec, Nikolaos Politakos
MN-P-054	Low Density Polyethylene Films Coated with Essential Oil Loaded Halloysite Nanotubes by Layer-by-Layer Technique for Antibacterial Surfaces <u>Buket Alkan</u> , Ekin Şehit, Cüneyt Erdiñç Taş, Serkan Ünal, Fevzi Çakmak Cebeci, Yusuf Ziya Menceloğlu, Hayriye Ünal
MN-P-055	Study of effect of alumina on aluminium characteristic properties in composite alloys <u>Amel Bourbia</u> , Hayette Bedboudi, M. Yacine Dibili
MN-P-056	Preparation of PEG Modified Single-Walled Carbon Nanotubes: CNT and PEG Chain Length Effect <u>Ayhan Ünlü</u> , <u>Mehdi Partovi Meran</u> , Gürkan Hızal, Nilgün Yavuz, F. Seniha Güner
MN-P-057	Corrosion behaviour of DC magnetron sputtered aluminium coatings <u>Bahroune Mouflida</u> , Mosbah Asma, Guenfoud Fatma, Saker Abdelhamid
MN-P-058	Preparation of Paper-based Biosensor for Detection of Phenol Using Laccase Hybrid Nanoflowers <u>Cansu Ozkardas</u> , Cevahir Altinkaynak, Serife Sacmaci, Nalan Ozdemir, Ismail Ocsoy
MN-P-059	Effect of the preparation method on structural properties of magnetite <u>Laaldja Boukhobza Meddour</u> , Yasmina Bellal Hammiche, Amar Djadoun, Nadia Henda, Ahmed Ezzine Hassanine
MN-P-060	Structure-property relationship in the PVC composites reinforced with carbon nanotubes <u>Ali Reza Zanjanijam</u> , Mohammad Bahrami, Morteza Hajian, <u>Maryam Ramezani</u>
MN-P-061	Modification of Halloysite Nanotubes with Styrene-Maleic Anhydride Copolymers <u>Refik Arat</u> , Nurseli Uyanık
MN-P-062	The effect of nanoclusters on the mechanical strength of dental composites <u>Şeref Okay</u> , Aslı Dörtler, Nadir Kiraz, Meltem Asiltürk
MN-P-064	The Effect of Different Hydrophobic Agents on Staining and Color Change of Dental Composites <u>Aslı Dörtler</u> , Şeref Okay, Nadir Kiraz, Meltem Asiltürk
MN-P-065	Multifunctional EPDM/PP-g-MA/Bioengineering Polyesters/Colloidal Poly(MA-alt-1-dodecene)-g-SiO ₂ /Organoclays Nanocomposites by Reactive Extrusion <u>Bayram Ali Göçmen</u> , Zakir M. O. Rzayev, Deniz Demircan, Gunay Kibarer

MN-P-066	Electrochemical Preparation of Polyaniline nanoparticles <u>Abdunnaser Mohamed Etoriki</u> , Ibrahim Shaban Shaban, Manal Ali Elharby
MN-P-067	In-Situ Preparation of Ag/Cu Alloy Nanoparticles by Photopolymerization Technique <u>Hicret Kirtay</u> , A. Nadir Sevinç, Nergis Arsu
MN-P-068	Heterogeneous Activation of Oxone by Graphene Oxide for the Photodegradation of Rhodamine B Under Visible Light Irradiation <u>Hasan Yolcu</u> , Rabah Boukherroub
Macromolecules in Biotechnology & Medicine	
MBM-P-001	Applications of the functionalized liquid crystal double-emulsion hollow droplets prepared by microfluidics <u>Soo Young Park</u> , Jong Kyu Kim, Ju Hyun Jang, In Seok Huh
MBM-P-003	Impact of diesel exhaust particulates (DEPs) on the respiratory system <u>Bouzid Mohamed</u> , Djadi Amina, Bezzazi Boudjema
MBM-P-004	Synthesis of photopolymerizable macromers giving novel poly(β-amino ester)s for biomedical applications <u>Ece Akyol</u> , Duygu Avcı
MBM-P-006	Flurbiprofen Derivative Loaded Nanostructured Lipid Carriers: Synthesis of New Flurbiprofen Derivative <u>Gulce Taskor</u> , Nezire Saygili
MBM-P-007	Polyurethanes based on castor oil and chitosan as potencial biomaterials in tissue engineering <u>Said José Arévalo</u> , Claudia Alejandra Ramírez, Manuel F Valero, Luis E Diaz
MBM-P-008	Phosphonate/phosphonic acid end-modified poly(b-amino ester)s for pH-sensitive applications <u>Mirac Tatlıyüz</u> , Ece Akyol, Duygu Avcı Semiz
MBM-P-010	Novel bisphosphonate and bisphosphonic acid-functionalized methacrylates for dental applications <u>Melek Naz Guven</u> , Duygu Avcı Semiz
MBM-P-011	Structural Analysis of Octenyl Succinic Anhydride (OSA) Esterified Starch from Plants <u>Senay Simsek</u> , Kristin Whitney
MBM-P-012	In-vitro Application Studies of Breast Cancer Treatment Beads on Drug Loaded Stimuli-Responsive Microgel/Liposome Biomaterials Covered with Magnetic Nanoparticles which Provides a Way to Carry All System on a Target <u>Damla Ülker</u> , Vural Bütün
MBM-P-013	Enzyme Immobilization on Polymer-based Supports <u>Dilek Nartop</u> , Murat Güleç, Birtane Demirel, Elvan Hasanoğlu Özkan, Nurdan Kurnaz Yetim, Nurşen Sarı
MBM-P-014	Sol-Gel Coating For Inhibition Monomer Release From Acrylic Denture Base <u>Selda Sezer</u> , <u>Ahmet Gultek</u> , Ismail Hakki Uzun, Nilufer Tulin Polat, Turgay Seckin
MBM-P-015	Synthesis and characterization of poly(vinylphosphonic acid-co-acrylic acid) copolymers for application in bone tissue scaffolds <u>Rebecca Dey</u> , Xia Zhong, Peter Youle, Qi Guang Wang, Ian Wimpenny, Sandra Downes, Judith Hoyland, David Watts, Julie Gough, Peter Budd
MBM-P-016	Polyelectrolyte complexes of poly(4-vinylpyridine)-g-poly(ethyleneglycol) with c-myc antisense oligonucleotide as a potential non-viral vector <u>Murat Topuzoğulları</u> , Damla Gökkaya, Mehmet Murat Özmen

MBM-P-017	Construction of novel cholesterol biosensors by using dithienopyrrole type conducting polymer Huseyin Bekir Yildiz, <u>Nilay Gazel</u> , Semahat Kucukkolbasi
MBM-P-018	A novel application for polyDADMAC in biopharmaceutical production Almut Rapp, Sarah Koegler, Joerg von Hagen
MBM-P-019	Development of polyvinyl chloride/silver nanoparticle composites through different fabrication techniques and their performance as antimicrobial substrates <u>Muhammad Anwaar</u> , Emel Yilgör, Iskender Yilgör
MBM-P-020	CoFe ₂ O ₄ -FRUCTOSE-METHOTREXATE BASED ANTICANCER DRUG DESIGN Idil Karaca Açar, Süleyman Köytepe, Burhan Ateş, Sevgi Balcıoğlu, Turgay Seçkin, Ismet Yılmaz
MBM-P-021	The study of binding modes of Thioxanthone-Diamin with calf thymus DNA <u>Rabia Halıcı</u> , Eyüp Metin, Neşe Atacı, Nergis Arsu
MBM-P-022	Synthesis of Novel Thermosensitive Poly(Amine Functionalized Glycolide)-Poly(Lactide) - PEG Copolymers and Their Applications in Drug Delivery Systems <u>Sezgi Erdoğan</u> , Mehmet Onur Arıcan, Olcay Mert
MBM-P-023	Syntheses and nanoformulations of novel boron based poly(diisobutyl glycolide) homopolymers and their copolymers with lactide for drug delivery systems <u>Mehmet Onur Arıcan</u> , Aybüke Huri Kandra, Gökhan Duruksu, Ufuk Yıldız, Asgar Kayan, Olcay Mert
MBM-P-024	Synthesis and Characterization of a New Class of Boron Based Asymmetric Poly(Substituted Glycolides) for Biomedical Applications <u>Ayşenur Vardar</u> , Mehmet Onur Arıcan, Ufuk Yıldız, Asgar Kayan, Olcay Mert
MBM-P-025	Synthesis of Tween-Based Polyurethane Adhesives Capable of Adhering in Moisture Environment <u>Burhan Ates</u> , Suleyman Koytepe, Merve Goksin Karaaslan, Unzile Kelestemur, Sevgi Balcioglu, Selam Gulgen
MBM-P-026	Synthesis and evaluation of bisphosphonate-containing poly(β -amino ester) macromers for biomedical applications <u>Seçkin Altuncu</u>
MBM-P-027	Hydrogels for biomedical applications using biodegradable oligomers of poly(lactic acid) <u>Marcos Lopes Dias</u> , Felipe Augusto Moro Loureiro, Iryna Grafova, Andriy Grafov
MBM-P-028	Synthesis and In vitro Evaluation of Poly(2-((2-aminoethyl)amino)ethyl methacrylate) as a Potential siRNA Delivery Agent <u>Aykut Zelçak</u> , Volga Bulmuş
MBM-P-029	Synthesis, Characterization and in vitro Evaluation of Arginine Polymers <u>Damla Taykoz</u> , Deniz Uğur, Volga Bulmuş
MBM-P-030	Immobilization of L-asparaginase onto PMMA Composites Activated with Starch <u>Ahmet Ulu</u> , Suleyman Koytepe, Burhan Ates
MBM-P-031	Preparation, characterization and antibacterial study of pHEMA (soft contact lens) hydrogel incorporated with boric acid <u>Ahmet Ulu</u> , Rukiye Keskin, Emre Birhanlı, Sevgi Balcıoğlu, Suleyman Koytepe, Burhan Ates
MBM-P-032	Electrospun Biocompatible Core/Shell Structure Nanofibers with Potential Application for Local Cancer Therapy & Wound Healing <u>Roya Sedghi</u> , Alireza Shaabani

MBM-P-034	The Stabilization of Camptothecin Anticancer Drug via Phosphazene Cored and Miktoarm Star-Shaped Polymeric Nanocarriers <u>Duygu Çetin</u> , Mehmet Onur Arıcan, Erdiç Doğançlı, Nursel Olgaç, Mesut Görür, Faruk Yılmaz, Olcay Mert
MBM-P-035	Shape-persistent polymersomes possess tunable permeable membrane and functional-antennae as multifunctional devices for biomedical applications <u>Mohamed A. Yassin</u> , Dietmar Appelhans, Hanns Achim Temme, Brigitte Voit
MBM-P-036	Development of Tween 60/Boric Acid-based Antibacterial Polyurethane Biomaterials Including Hydrophobic Surface for Wound Dressing Application <u>Merve Gökşin Karaaslan</u> , Emre Birhanlı, Selam Gülgen, Suleyman Koytepe, Burhan Ates
MBM-P-037	Design of New Nano-Carriers based on Bioinformatics Analysis of Protein-DNA Interactions. Molecular Dynamics and Experimental Validation <u>Valeria Marquez Miranda</u> , Ingrid Araya Durán, María Belén Camarada, Jeffrey Comer, María Carolina Otero, Fernando Danilo González Nilo
MBM-P-038	Purification of a phosphated biopolymer by selective ethanol precipitation in presence of SDS and sodium acetate Rodrigo Gabriel Simas, Raphael De Marco, Joaquin Cabrera Crespo, <u>Mickie Takagi</u>
MBM-P-039	Preparation of Theophylline Loaded Pectin-Zeolite Based Wound Dressing Materials <u>Banu Arabacıoğlu Kocaaga</u> , Ozge Kurkcuoglu, Melkon Tatlier, F. Seniha Güner
MBM-P-040	The effect of using antibacterial agent and size of the inorganic micro fillers on flexural strength of the composite materials and their antibacterial activity <u>Meltem Asiltürk</u> , Zerin Yesil Acar, Nadir Kiraz
MBM-P-042	Polycationic Polymeric Brush Decoration on Polyurethane for Dual Effective Antibacterial Activity <u>Merve Gultekinoglu</u> , Yeliz Tunc Sarisozen, Ceren Erdogdu, Meral Sagiroglu, Yoo Jin Oh, Peter Hinterdorfer, Eda Ayse Aksoy, Kezban Ulubayram
MBM-P-043	The Comparison of Isothermal and Hydrolytic Degradability Properties of Non-Aromatic Polyurethanes Prepared for Medical Applications <u>Canbolat Gurses</u> , Hakan Dastan, Merve Goksin Karaaslan, Selam Gulgen, Suleyman Koytepe, Burhan Ates
MBM-P-044	Computational and Experimental Approaches to Improve Minocycline Imprinted Hydrogels for Controlled Drug Release <u>Büşra Eroğlu</u> , Dilek Dalgakiran, Ozge Kurkcuoglu, F. Seniha Güner
MBM-P-045	Biochemical Characterization of Recombinant L-Arabinofuranosidase <u>Emine Erdoğan Özşeker</u> , Alper Akkaya
MBM-P-046	Bioconjugation of Microbial Rennet with Dextran Sulfate <u>Mithat Celebi</u>
MBM-P-047	Surface Modifiable Dendrimers as Efficient Drug Carriers of Sulfamethoxazole (SMZ) as Model Drug Mustafa Ulvi Gürbüz, Ali Serol Ertürk, <u>Metin Tülü</u>
MBM-P-048	Synthesis and anticancer effect of different monosaccharides-DOX conjugates on MCF-7 breast cancer cell <u>İdil Karaca Açarı</u> , Süleyman Köytepe, Burhan Ateş, Sevgi Balcıoğlu, Turgay Seçkin, İsmet Yılmaz
MBM-P-049	In vitro cytotoxicity of PEG modified single-walled carbon nanotubes <u>Mehdi Partovi Meran</u> , Ayhan Ünlü, Ebru Hacısmanoğlu, Gürkan Hızal, Nilgün Yavuz, Pelin Deniz Akkuş, Özge Kürkçüoğlu, F. Seniha Güner

MBM-P-050	Sodium Alginate Films for Future Wound Dressing Applications, Effect of Crosslinking on Swelling, Mechanical Properties and Release of Curcumin <u>Candan Kılınçkale</u> , Funda Kaşıkçı, Zeynep Kurt, Hüceste Çatalgil Giz
MBM-P-051	The Release Of Curcumin From Alginate Beads In Different Media <u>Esra Aksoy</u> , Melisa Berberoglu, Cagla Ergun, Huceste Catalgil Giz
MBM-P-052	Delivery Kinetics and Preparation of Rosemary Essential Oil Formulation Microencapsulated with Alginate/Starch <u>İncilay Gökbulut</u> , Fatma Sezer Öztürk, Burhan Ates, Hakan Parlakpınar
MBM-P-053	Synthesis of Tetrazine Functional Hyperbranched Polymers <u>Mustafa Yasin Ateş</u> , Ahmet Çetinkaya, Muhammet Ubeydullah Kahveci
MBM-P-054	SURFACE MODIFICATION AND CHARACTERIZATION OF NANO SiO ₂ NANOPARTICLES FOR BIOLOGICAL APPLICATIONS <u>Elif Ceyda Kanpara</u> , Fatma Özge Gökmen, Nursel Pekel Bayramgil
MBM-P-055	Labeling of Proteins with Trans-cyclooctene for Tetrazine Ligation <u>Ahmet Çetinkaya</u> , Mustafa Yasin Ateş, Muhammet Ubeydullah Kahveci
MBM-P-056	In Situ Synthesis of Tetrazine Functional Polymers <u>Sinem Sipahioglu</u> , <u>Sinem Sipahioglu</u> , Mustafa Yasin Ates, Ahmet Cetinkaya, Muhammet Ubeydullah Kahveci
MBM-P-057	Targeted Delivery of Anti-Angiogenic Chemotherapy Agents <u>Merve Karaçivi</u> , Rana Sanyal
MBM-P-059	Evaluation of toxicity essential oils of aromatic plant (<i>Rosmarinus Officinalis</i>) on the pédofaune <u>Karima Baba Aissa</u> , Hadjer Rabah, Kamel Moussaoui, Zahr Eddine Djazouli
MBM-P-060	“Development Of Novel Bilayer Chitosan-nHap Composite Biomaterial For Guided Bone Regeneration” <u>Sedef Tamburacı</u> , Özge Karadaş, Engin Özçivici, Funda Tihminlioğlu
MBM-P-061	Development, Characterization and In vitro cell culture studies of Zein Bilayer Composites as Bioactive Wound Dressing Material Seda Gunes, <u>Sedef Tamburacı</u> , Funda Tihminlioglu
MBM-P-062	Production And Characterization Of Novel Bilayer Chitosan-Zein Based Composites For Osteochondral Tissue Regeneration <u>Sedef Tamburacı</u> , Berivan Çeçen, Hasan Havitçioğlu, Funda Tihminlioğlu
MBM-P-063	Effect of pH on Drug Release Kinetics for PHEMA/Itaconic Acid Imprinted Hydrogels <u>Dilan Bozkurt</u> , Dilek Dalgakiran, Seniha Guner
MBM-P-066	The effect of using antibacterial agent and size of the inorganic micro fillers on flexural strength of the composite materials and their antibacterial activity <u>Zerin Yeşil Acar</u> , Nadir Kiraz, Meltem Asiltürk
MBM-P-067	New synthesis and reactivity of 4-hydroxy-6-methyl-2h-pyran-2-one Benmohamed Soumaya, <u>Rachedi Yahia</u> , Hamdi Maamar, Dumas Françoise
MBM-P-068	Development of polymeric organic capsules as a platform for opioids prolonged release <u>Shumaila Razaque</u> , Tan Bien
MBM-P-069	Preparation of different biopolymer chitosan films with enzyme immobilization for biotechnological application <u>Entsar I Rabea</u> , Mohamed E. I. Badawy
MBM-P-070	The investigation of polymorphs and eutectic mixture of progesterone and estradiol benzoate loaded in silicone rubber by differential scanning calorimetry (DSC) <u>Maryam Ramezani</u> , Farhid Farahmandghavi, Mohammad Imani

MBM-P-071	<p>Anti-angiogenic Drug Conjugated Linear Dendritic Triblock Copolymers as Micellar Drug Delivery Systems <u>Burcu Sumer Bolu</u>, Ece Gecici, Rana Sanyal, Rana Sanyal</p>
MBM-P-072	<p>The study of binding modes of 4,4'-methylthiobenzoin (MTB) with ct-DNA <u>Eyüp Metin</u>, Betül Fatma Erkoç, Aslı Tuğla, Elif Özçelik, Nergis Arsu</p>
MBM-P-073	<p>Biodistribution of Radiolabelled Polymeric Nanoparticles Obtained by PISA Approach in HT1080 Tumor Xenografts <u>Sadık Kaga</u>, Nghia Truong, Danielle Senyschyn, John Quinn, Rana Sanyal, Lisa Kaminskas, Michael Whittaker, Thomas Davis</p>
<p>Energy, Optics, & Optoelectronics</p>	
EOO-P-001	<p>Non-Covalently Bonded Polymers Induced by π-Stacking: Synthesis of New Tribenzopentaphenes Derivatives and Investigation of their Properties <u>Bassam ALAMEDDINE</u>, Christine Luscombe, Titus Jenny</p>
EOO-P-002	<p>Effect of the Addition of Additives on the Improvement of the Performance of Lead-Acid Batteries <u>Foudia Malika</u>, Zerroual Larbi, Deafa Imad</p>
EOO-P-003	<p>Effect of solution slow rate on growth and characterization of nanostructured ZnO thin film deposited using spray pyrolysis <u>Chabane Sari Sidi Mohammed</u>, Zargou Salem, Senoudi Rachida Assia, Aida Mohammed, Attaf Nasreddine, Hakem Ilhem Faiza</p>
EOO-P-004	<p>Alkyl-end-group Modification of Benzotriazole and Thiophene Containing Conjugated Polymers <u>Sevki Can Cevher</u>, Duygu Keleş, Şerife Özdemir Hacıoğlu, Levent Toppare, Levent Toppare, Levent Toppare, Ali Çırpan, Ali Çırpan, Ali Çırpan, Ali Çırpan</p>
EOO-P-005	<p>Air electrode based on conducting polymer for enhanced Li-air batteries <u>Yong Joon Park</u>, Seon Hye Yoon, Dae Ho Yoon</p>
EOO-P-006	<p>1,1'-Biferrocenylene Based D-A-D Oligomers <u>Okan Demirel</u>, Rochus Breuer, Mehmet Emin Cinar, Michael Schmittel, Turan Ozturk</p>
EOO-P-008	<p>Triphenylimine and Tetraphenylethylene Substituted Thienothiophene for OLED Applications <u>Garen Suna</u>, Sebahat Topal, Turan Öztürk</p>
EOO-P-009	<p>Boron and Tetraphenylethene Substituted Thienothiophene Possessing Molecules for OLED Applications <u>Pelin Ulukan</u>, Turan Öztürk</p>
EOO-P-010	<p>Greener Reaction for High Electron Mobility Copolymer: Naphthalene Diimide Copolymers via Direct Arylation Polycondensation with Controlled Molar Mass and High Performance <u>Rukiya Matsidik</u>, Hartmut Komber, Alessandro Luzio, Mario Caironi, Michael Sommer</p>
EOO-P-011	<p>Improvement of capacitive performances of supercapacitors by incorporation of exfoliated montmorillonite into conducting polymers <u>Damia Amoura</u>, Margarita Sánchez Jiménez, Francesc Estrany, <u>Laid Makhloufi</u>, Carlos Alemán</p>
EOO-P-012	<p>Synthesis and Optoelectronic Properties of Mono-Alkylated Thieno[3,2-b] Thiophenes and Their Polymers <u>Koray Tansu İlhan</u>, Sebahat Topal, Turan Ozturk</p>
EOO-P-013	<p>Donor-Acceptor Systems Possessing Tetraphenylethylene Substituted Dithienothiophene-S,S-dioxides for OLED Applications <u>Rengin Büşra Özek</u>, Gözde Aydın, Turan Öztürk</p>

EOO-P-014	preparation and characterisation by X ray diffraction of LiFexCo(1-x)O2 <u>Quartsi Ibticem</u>
EOO-P-015	From Polymers to High-Capacity Anode Nanostructures for Lithium-ion Batteries <u>Serap Hayat Soytaş, Ali Ansari Hamedani</u>
EOO-P-016	Ferrocene-Containing Polythiophene and Its Use as a Cathode Material for Li-ion Batteries <u>Mesut Görür, Muhammet Aydın, Faruk Yılmaz</u>
EOO-P-017	Polythiophene with Densely Populated Organic Robust Radicals as Cathode Material in Li-Ion Batteries <u>Muhammet Aydın, Mesut Görür, Faruk Yılmaz</u>
EOO-P-018	A post-functionalizable carbazole based low bandgap polymer for organic photovoltaic applications Deniz Kıymaz, Ceylan Doyranlı, Hakan Bilgili, Burak Gültekin, Pieter Verstappen, Jurgen Kesters, Wouter Maes, Ceylan Zafer, Dirk Vanderzande, <u>Sermet Koyuncu</u>
EOO-P-019	Highly Efficient Poly(fluorene phenylene) Graft Copolymer as a New Class of Binder for High-Capacity Silicon Anode in Lithium-ion Batteries Neslihan Yuca, Mehmet E. Cetintasoglu, Murat F. Dogdu, Huseyin Akbulut3, Sevcan Tabanlı, Uner Colak, <u>Omer Suat Taskin</u> , Yusuf Yagci

Poster Session -2 / *July 19, 2016 - Tuesday*

Polymer and Polymer-Based Membranes	
PPBM-P-001	Surface modification of polyethersulfone/aminated polyethersulfone membranes by the self-assembly with antibacterial materials <u>Chang Keun Kim</u> , Lakwon Choi, Eun Yub Choi, Kwang Young Park
PPBM-P-002	Metal-Organic Frameworks: Coordination Polymeric Nanofibers <u>Alper Inan</u> , Nesrin Horzum
PPBM-P-003	Synthesis, Characterization and study of rheological behavior of copolymer hydrogels based on poly (N-isopropylacrylamide-co-acrylamide) <u>Seddiki Nesrinne</u> , Aliouche Djamel
PPBM-P-004	Formation of Cellulose Acetate Membranes: Influencing Structure and Performance <u>Jakob Tolk</u> , Annette Reiche
PPBM-P-005	Synthesis and characterization of highly fluorinated polytriazoles copolymers with controlled degree of sulfonation for proton exchange membranes <u>Asheesh Singh</u>
PPBM-P-006	Effect of trityl substituted triphenylamine group on gas transport properties <u>Soumendu Bisoi</u> , Susanta Banerjee
PPBM-P-007	Morphology and thermal stability of nanocomposite polymer membranes containing methylimidazolium ionic liquid <u>Oscar Javier Osorio Pedroza</u> , José Carlos Dutra Filho, Victor Jayme Roget Rodriguez Pita, Marcos Lopes Dias
PPBM-P-008	Radiation grafting of crosslinked anion exchange membranes for bipolar membrane fuel cells <u>Enver Güler</u> , Selmiye Alkan Gürsel
PPBM-P-009	Preparation of Polysulfone-Modified Fiber Structure Sepiolite Hybrid Particles for Ultrafiltration Membrane <u>Betül Hanbevoğlu Yavas</u> , Nilgün Kızılcan, Birgül Benli
PPBM-P-011	Comparasion of Bioresorbable Adhesion Barrier Films which Produced from Polylactic Acid <u>Mehmet Buğra Güner</u> , Afife Binnaz Hazar Yoruç
PPBM-P-013	Study of synthetics dyes adsorption onto poly (vinyl alcohol)/ glutaraldehyde/ β -cyclodextrin polymer membranes <u>Djamila Ghemati</u> , Djamel Aliouche
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PEPC-P-023	<p>In-situ Synthesized Fe₃O₄ Decorated Polyaniline/RGO Based Flexible PVDF Composites Film with Excellent Electromagnetic Interference Shielding Efficiency <u>Ranadip Bera, Sarbaranjan Paria, Sumanta Kumar Karan, Amit Kumar Das, Anirban Maitra, Bhanu Bhusan Khatua</u></p>
PEPC-P-024	<p>The Effects of Aromatic Boronic Acid on Thermal Characteristics of Polymers Involving Ester Linkages <u>Nehir Utku</u></p>
PEPC-P-026	<p>Assessment of improved and optimized technological process for manufacturing polymer packagings for pharmaceutical and cosmetic industry <u>Margarita Natova, Ivan Ivanov, Vassil Georgiev, Filip Ublekov, Hristo Penchev</u></p>
PEPC-P-027	<p>Usability and Performance of Magnetite Filler as Polymeric Ionizing Electromagnetic Radiation Shield <u>Ezgi Eren Belgin, Gül Asiye Ayçık</u></p>
PEPC-P-028	<p>Electrospun Rice Grain-shaped TiO₂ Mesostructures Sensitized by CdS Quantum Dots for Photovoltaic Application <u>Shengyuan Yang, Hongjun Deng, Meifang Zhu</u></p>
PEPC-P-029	<p>Performance of non-halogenated polymerizable phosphorus based flame retardant in polystyrene <u>Hilal Gündüz, Hüseyin Esen</u></p>
PEPC-P-030	<p>A conducting polymer and a calixarene derivative: A novel surface design for glucose detection <u>Tugba Ceren Gokoglan, Saniye Soylemez, Melis Kesik, Hande Unay, Serkan Sayin, Ali Cirpan, Huseyin Bekir Yildiz, Levent Toppare</u></p>
PEPC-P-031	<p>Synthesis and Characterization of Fluorene Based Random Copolymer with Benzothiadiazole and Benzoselenadiazole <u>Seda Kutkan, Seza Goker, Serife O. Hacioglu, Levent Toppare</u></p>

PEPC-P-033	<p>Ultrahigh Thermally Stable Poly(ether ketone)/MWCNT Composites as an Efficient Electromagnetic Shielding Material With Improved Mechanical Properties <u>Sampat Singh Chauhan</u>, Mathew Abraham, Veena Choudhary</p>
PEPC-P-034	<p>An effective surface design based on a conjugated polymer and silver nanowires for the detection of paraoxon in tap water and milk <u>Janset Turan</u>, Melis Kesik, Saniye Soylemez, Seza Goker, Sahin Coskun, Husnu Emrah Unalan, Levent Toppare</p>
PEPC-P-035	<p>Investigation Parameter Effects on Tribological Performance of Short Carbon Fiber and Pumice Particle Reinforced PPS/PA66 BLEND <u>Alp Eren Şahin</u>, Sinan Yilmaz, Tamer Sinmazçelik, Taner Yilmaz</p>
PEPC-P-036	<p>Investigation of Mechanical Properties of Polysulfone Blends <u>Reyhan Ozdogan</u>, <u>Mithat Celebi</u>, Mehmet Arif Kaya, Ozgur Ceylan</p>
PEPC-P-037	<p>Removal of Cu²⁺, Ni²⁺ and Au³⁺ ions from acidic solutions using polypyrrole conducting polymer by electrochemical cementation process <u>Houa Hammache Makhloufi</u>, Boualem Saidani</p>
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PEPC-P-044	<p>Investigation of mechanical properties of organic - inorganic hybrid reinforced composites <u>Mehmet Mudu</u>, Halil Demirer, Mustafa Öksüz</p>
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PEPC-P-052	First Si/Ge/Sn Heterotrimetallic Dendrimers $\text{Si}(\text{CH}_2)_2\text{Sn}[(\text{CH}_2)_4\text{MPh}_3]_{34}$ (M= Ge, Sn): Synthesis and Characterization <u>Yılmaz Aksu</u>
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PEPC-P-060	Characterization and investigation of synthesized Self-Colored PET(polyethylene terephthalate) based on Naphthalimide dye <u>Ehsan Zamani</u> , Alireza Khosravi, Mehdi Rafizadeh
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PEPC-P-062	Use of Rubber and Sawdust Wastes via Sodium Pentaborate, α -Sepiolite and Magnesium Hydroxide in Application of Radiation Isolation of Composites Filiz Balkaya, Zübeyde Kıvrak, Hamed Ghorbanpoor, <u>Macid Nurbas</u>
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IP-P-022	The role of nano-ZnO as an activator on rheological and tensile properties of rubber blends based on BR/SBR <u>Behnaz Akbari</u> , Fereshteh Motiee, Sasan Mosavi
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PPG-P-029	HETEROGENIZATION OF HOMOGENOUS NHC-Pd(II)-Pyridine CATALYTIC SYSTEMS VIA RADICAL POLYMERIZATION: CATALYTIC ACTIVITIES FOR SUZUKI-MIYaura COUPLING REACTIONS <u>Cihangir Boztepe</u> , Ismail Ozdemir, Asim Kunkul, Nevin Gurbuz
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PPG-P-031	Preparation and Characterisation of Rigid Phenolic Foams <u>Cláudio G. dos Santos</u> , Tobias Böhringer, Victor A. Oliveira
PPG-P-032	Gold nanoparticles embeded disulfide-linked polymer networks Mehmet Sahin Atas, <u>Halit Cavusoglu</u> , Mustafa Selman Yavuz
PPG-P-033	Gold nanoparticles embedded disulfide-linked polymer networks <u>Halit Cavuşoğlu</u> , Mehmet Şahin Atas, Mustafa Selman Yavuz
PPG-P-034	Synthesis and characterization of sodium alginate/poly(acrylic acid) interpenetrating network films and calcium ion-crosslinked sodium alginate films <u>Seda Bekin Acar</u> , Shokat Sarmad, Gülten Gürdağ
PPG-P-035	Macroporous hydrogels composed entirely of synthetic polypeptides: biocompatible and enzyme biodegradable 3D cellular scaffolds <u>Steven J. Shirbin</u> , Fatemeh Karimi, Nicholas J. Chan, Daniel E. Heath, Greg G. Qiao
PPG-P-036	Synthesis and characterization of chemically crosslinked hydrogels to enhance the water holding capacity of sandy loam soil <u>Misbah</u> , Ijaz Ahmad Bhatti, Tariq Aziz
PPG-P-037	Synthesis of Template hydrophobically associating Polyacrylamide/Na+ Montmorillonite <u>Babak Kaffashi</u> , Maryam Khak, Mahmood Hemmati
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MSP-P-006	A DFT Study on the Stereoselective Propagation In Free Radical Polymerization of Acrylamides Gülru Kayık, <u>Nurcan Senyurt Tüzün</u>
MSP-P-007	Mathematical kinetic modeling on Isoniazid release from Dex-HEMA-PNIPAAm polymeric nanogels <u>Babak Kaffashi</u> , Maryam Jafari

WELCOME RECEPTION

18 July 2016



Boats will depart from Halic Congress Center at 19:00.

After reception drop off locations :

Ortakoy : 21:20

Kabatas : 21:40

***Halic Congress Venue** : 22:00

** There will be a shuttle service from Halic Congress Center to the Vezneciler Metro Station and Taksim at 22:00*

GALA DINNER ON THE BOSPHORUS
20 July 2016



	Onsite
Gala Dinner	55 USD

Shuttle Times ;

Halic Congress Center -> Gala Dinner Venue : 18:30

Gala Dinner Venue – Taksim - Vezneciler -> Halic Congress Center: 23:30

ALBATROS BAND



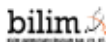
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