

**THE 5TH INTERNATIONAL
SYMPOSIUM ON POLYMER
CHEMISTRY**

PC 2012

PROGRAM

**June 2-6, 2012
Changchun, China**

Organized by:

State Key Laboratory of Polymer Physics and Chemistry, China

Sponsored by:

National Natural Science Foundation of China

National Science Foundation, USA

Chinese Academy of Sciences (CAS)

Polymer Division, Chinese Chemical Society

American Chemical Society

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Harm-Anton Klok (Switzerland)

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June 2	June 3		June 4		June 5	
Registration Redbuds Hotel	09:30-09:50	Opening Remark	08:45-09:10	Invited & Oral Lectures	08:45-09:10	Invited & Oral Lectures
	09:50-10:35	PL-01	09:10-09:35		09:10-09:35	
			09:35-10:00		09:35-10:00	
			10:00-10:20		10:00-10:20	
	10:35-11:20	PL-02	10:20-10:50	Coffee Break	10:20-10:50	Coffee Break
			10:50-11:15	Invited & Oral Lectures	10:50-11:15	Invited & Oral Lectures
			11:15-11:40		11:15-11:40	
	11:20-12:00	Group Photograph	11:40-12:05		11:40-12:05	
	12:15-13:30	Lunch				
	13:30-13:55	Invited & Oral Lectures	13:30-13:55	Invited & Oral Lectures	14:30-14:55	Invited & Oral Lectures
	13:55-14:20		13:55-14:20			
	14:20-14:45		14:20-14:45			
	15:45-15:05		15:45-15:05			
	15:05-15:35	Coffee Break	15:05-15:35	Coffee Break	16:00-16:30	Coffee Break
15:35-16:00	Invited & Oral Lectures	15:35-16:00	Invited & Oral Lectures	16:30-17:15	PL-03	
16:00-16:25		16:00-16:25				
16:25-16:50		16:25-16:50				
16:50-17:10		16:50-17:10				
18:30-20:30	17:30-19:00	Dinner	18:30-20:30	Banquet & Poster Award	17:30-22:00	Dinner
Reception	19:30-22:00	Poster Session				

Redbuds Hotel	Graduate Complex in CIAC	Main Building in CIAC
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AREA MAP



GENERAL INFORMATION

Presentation Information

Oral presentations

Plenary lectures, invited lectures and oral presentations are allocated 45, 25 and 20 min presentation time (including discussion), respectively. A computer and a multimedia projector are available in each meeting room. Presentations should be prepared in Windows compatible format in English (Office 2007 and Windows XP). The presentation documents should be loaded in the conference computers one day before your presentation. If you want to use your own laptop, please inform us one day before your presentation.

Speakers: Please arrive at least 20 min before your session begins, to check if your presentation document can be displayed properly, or to check that your laptop is compatible with the projector.

Chairpersons: Please arrive at least 20 min before your session begins, and make every effort to keep the scientific program on schedule.

Poster presentations

Poster session is in the evening of June 3, Sunday, with beer and light snacks.

A board of 90(W) x 120(H) cm will be provided for each poster display. Each poster should be mounted on a post board according to the poster number.

Mounting Posters: 12:00-18:30

Obligation Time for poster presentation: 19:30-22:00

Removing Posters: 22:00-22:30

Conference Venue

Plenary lectures:

PL01 and PL02 (June 3) are in Golden Redbuds Hall, **Redbuds Hotel** (8th Floor), PL03 (June 5) is in Room 6040 in **Graduate Complex**, CIAC

Invited and oral lectures:

Graduate Complex, CIAC (Room 4039, 4040, 5039, 5040, 6040)

Poster presentations:

Grand Ball Room in **Redbuds Hotel** (3rd Floor)

Social Program

Welcome Reception:

June 2, 18:30-20:30; Grand Ball Room in **Redbuds Hotel** (3rd Floor)

Lunches:

June 3 to June 5; 12:15-13:30; Dining Hall in **Graduate Complex** (Basement 1st Floor), CIAC

Banquet:

June 4, 18:30-20:30; Grand Ball Room in **Redbuds Hotel** (3rd Floor)

Dinners:

June 3, 17:30-19:00; Dining Hall in **Graduate Complex** (Basement 1st Floor), CIAC

June 5, 17:30-22:00; Victoria West Restaurant in **Redbuds Hotel** (1st Floor)

SYMPOSIUM THEMES

The symposium will focus on:

1. **Polymer Synthesis:** Polymerization methods, including new catalysts, various living/controlled polymerization, template polymerization, surface initiated polymerization, polymerization by biotechnology, etc.
2. **Macromolecular Architecture and Supramacromolecules:** Macromolecules with complex architecture, such as dendritic polymers, hyperbranched polymers and polymer brushes; self-assembly of macromolecule and macromolecular systems based on non-covalent bonds.
3. **Functional Polymers:** Conjugated polymers for optoelectronics and electronics; liquid crystalline polymers; dielectric polymers; encapsulation polymers, etc.
4. **Bio-related and Medical Polymers:** Bio-active, biocompatible and biodegradable polymers; polymers for medical application and tissue engineering; modification of natural polymers; polymers based on renewable resources.
5. **Structure and Characterization of Polymers:** Structure and properties of polymer single chains; structure and dynamics in crystalline, mesophase and amorphous states; composites and hybrid materials based on polymers; structures at different length-scales.

PROGRAM SCHEDULE

June 03| Sunday Morning

Opening Remark 9:30-9:50	Chair: Lixiang Wang	
	Fosong Wang , Chairman Hiroyuki Nishide , Co-Chairman Thomas J. McCarthy , Co-Chairman Harm-Anton Klok , Co-Chairman	
Plenary Lecture 9:50-10:35	Chair: Hiroyuki Nishide	
	PL-01	Benzhong Tang , The Hong Kong University of Science and Technology, Hong Kong Aggregation-induced emission
Plenary Lecture 10:35-11:20	Chair: Harm-Anton Klok	
	PL-02	Katharina Landfester , Max Planck Institute for Polymer Research, Germany Miniemulsion polymerization: possibilities and chances
11:20-12:00	Group Photograph	

June 05| Tuesday Afternoon

Plenary Lecture 16:30-17:15	Chair: Thomas J. McCarthy	
	PL-03	Mitsuru Akashi , Osaka University, Japan Layer-by-layer assemblies through weak interactions

June 03| Sunday Afternoon

Afternoon Sessions (13:30-17:10)		Topic 1 (Room 4039)	Topic 2 (Room 6040)	
	Chair	Jean-François Lutz	Kevin A. Cavicchi	
	13:30-13:55	Harm-Anton Klok , École Polytechnique Fédérale de Lausanne, Switzerland S1-IL-01 Interactive and responsive polymer brushes prepared via surface-initiated polymerization	Atsushi Takahara , Kyushu Univ., Japan S2-IL-01 Preparation of novel organic/inorganic nanohybrids using halloysite nanotube	
	13:55-14:20	Junpo He , Fudan Univ., China S1-IL-02 Anionic inimer in synthesis: from star, hyperbranched, to dendrimer-like and dendronized polymers	Wei Wang , Nankai Univ., China S2-IL-02 Polyoxometalate-containing hybrid polymers and amphiphiles	
	14:20-14:45	Rachel K. O'Reilly , Univ. of Warwick, UK S1-IL-03 Functional responsive polymeric nanostructures	Ting Xu , Univ. of California, Berkeley, USA S2-IL-03 Direct hierarchical assemblies of nanoparticles toward functional nanocomposites	
	15:45-15:05	Youliang Zhao , Soochow Univ., China S1-OL-01 Synthesis and properties of graphene oxide grafted with linear polymers and V-shaped copolymers	Zhongqiang Yang , Tsinghua Univ., China S2-OL-01 DNA modified gold nanoparticles	
	Coffee Break (15:05-15:35)			
	Chair	Junpo He	Wei Wang	
	15:35-16:00	Yuesheng Li , Changchun Institute of Applied Chemistry, CAS, China S1-IL-04 Copolymerization of ethylene with functional comonomers by titanium catalysts bearing two β -diketiminato chelate ligands	Kevin A. Cavicchi , Univ. of Akron, USA S2-IL-04 Supramolecular block copolymers through ionic interactions	
	16:00-16:25	Jean-François Lutz , Institut Charles Sadron, France S1-IL-05 Synthetic polymers with controlled primary structures: design, folding and function	Jiaping Lin , East China Univ. of Sci. and Tech., China S2-IL-05 Self-assembly of polypeptide-based copolymers	
16:25-16:50	Wenbin Zhang , California Institute of Tech., USA S1-IL-06 Precision synthesis of shape amphiphiles with diverse surface chemistry, polymer architecture, and chain topology	Jian Xu , Institute of Chemistry, CAS, China S2-IL-06 Flexible aerogels from a bridged silsesquioxane by thiol-ene click reaction and ambient pressure drying		
16:50-17:10	Lin Cheng , Huaqiao Univ., China S1-OL-02 Synthesis of triptycene-based monomers for polyimides	Feng Wang , Univ. of Sci. and Tech. of China, China S2-OL-02 Architecture control and mechanism study in some supramolecular polymer systems		
Poster Session (19:30-22:00)				

June 03| Sunday Afternoon

Topic 3 (Room 5040)	Topic 4 (Room 4040)	Topic 5 (Room 5039)
Wai-Yeung Wong	Qian Wang	An-Chung Su
Alex K.-Y. Jen , Univ. of Washington, USA S3-IL-01 Rational material design, self-assembly, and interface engineering for high-performance and stable polymer solar cells	Sébastien Lecommandoux , Université Bordeaux 1/CNRS, France S4-IL-01 Complex and smart polymersomes: from biomimicry to drug delivery	Erqiang Chen , Peking Univ., China S5-IL-01 Chain packing behavior of hemiphasmidic side-chain liquid crystalline polymer
Jishan Wu , National Univ. of Singapore, Singapore S3-IL-02 Open-shell polycyclic aromatic compounds	Shiyong Liu , Univ. of Science and Technology of China, China S4-IL-02 Functionalized polymeric assemblies for targeted drug delivery and mri contrast enhancement	Louis A. Madsen , Virginia Polytechnic Institute and State Univ., USA S5-IL-02 Understanding transport and collective interactions in nanostructured polymers
Christine Luscombe , Univ. of Washington, USA S3-IL-03 Controlled synthesis of multidimensional semiconducting polymers	Yunfeng Lu , Univ. of California, Los Angeles, USA S4-IL-03 A novel protein delivery platform based on single-protein-nanocapsules	Yongfeng Men , Changchun Institute of Applied Chemistry, CAS, China S5-IL-03 Structural transitions during tensile deformation of poly(ϵ -caprolactone) and its miscible blends by synchrotron saxs
Tomoya Higashihara , Tokyo Institute of Technology, Japan S3-OL-01 Purification-free and protection-free synthesis of regioregular poly(3-hexylthiophene) and poly(3-(6-hydroxyhexyl)thiophene) using a zincate complex	Jianzhong Du , Tongji Univ., China S4-OL-01 Multifunctional polymer vesicles for ultrasensitive MR imaging and drug delivery	Ryszard Szymanski , Center of Molecular and Macromolecular Studies of Polish Academy of Sciences, Poland S5-OL-01 Kinetic monte carlo studies of segmental exchange in copolymerization systems
Coffee Break (15:05-15:35)		
Jishan Wu	Shiyong Liu	Louis A. Madsen
Chain-Shu Hsu , National Chiao Tung Univ., Taiwan S3-IL-04 Molecular design of p-type conjugated polymers and n-type fullerene derivatives for high efficient polymeric solar cells	Qian Wang , Univ. of South Carolina, USA S4-IL-04 Bionanoparticle/polymer composite materials: assembly and application	An-Chung Su , National Tsinghua Univ., Taiwan S5-IL-04 Extensive development of precursory helical pairs prior to formation of trigonal stereocomplex crystals in racemic polylactide melt mixture
Wai-Yeung Wong , Hong Kong Baptist Univ., Hong Kong S3-IL-05 Metallated functional materials for energy conversion in solution-processed polymer-based OPVs and OLEDs	Xiaogang Liu , National Univ. of Singapore, Singapore S4-IL-05 Upconversion nanocrystals: a new class of luminescent bioprobes	Wenke Zhang , Jilin Univ., China S5-IL-05 Feel the inter- or intramolecular interactions with the single polymer chain as a probe
Zhiqun Lin , Georgia Institute of Tech., USA S3-IL-06 Anisotropic organic-inorganic nanocomposites by placing conjugated polymers in intimate contact with semiconductor quantum rods: from synthesis to photovoltaic applications	Changchun Wang , Fudan Univ., China S4-IL-06 Magnetic composite microspheres with smart polymer surface layer for controlled delivery of drugs	Hongliang Huang , Total Petrochemicals South East Asia, Singapore S5-IL-06 High gloss high impact polystyrene (HIPS) development and its application for consumer electronics
Hui Li , East China Univ. of Science and Technology, China S3-OL-02 Synthesis of a donor-acceptor double-cable polyfluorene with high pendant C60 content	Juntao Luo , SUNY Upstate Medical Univ. S4-OL-02 Well-defined engineerable teldodendrimer nanocarrier for improved cancer therapy	Yonggang Liu , Changchun Institute of Applied Chemistry, CAS, China S5-OL-02 Single polymer dynamics in a random flow
Poster Session (19:30-22:00)		

June 04| Monday Morning

Morning Sessions (8:45-12:05)		Topic 1 (Room 4039)	Topic 2 (Room 6040)
	Chair	Coleen Pugh	Dongsheng Liu
	8:45-9:10	Gregory N. Tew , Univ. of Massachusetts Amherst, USA S1-IL-07 Novel polymers using ROMP: opportunities in biology and energy	Thomas J. McCarthy , Univ. of Massachusetts Amherst, USA S2-IL-07 Rediscovering silicones
	9:10-9:35	Chuanbing Tang , Univ. of South Carolina, USA S1-IL-08 Novel cobaltocenium-containing polymers by controlled polymerization	Yuguo Ma , Peking Univ., China S2-IL-08 Self-assembly mediated by arene-perfluoroarene interaction: solid state reactions, gel and liquid crystalline phase formation
	9:35-10:00	Robert B. Grubbs , State Univ. of New York, Stony Brook, USA S1-IL-09 From block copolymers to functional materials	Jack Yang , SABIC, China S2-IL-09 New polycarbonate copolymer development
	10:00-10:20	Ke Zhang , Univ. of Massachusetts Amherst, USA S1-OL-03 Cyclic polymers as a building block	Haolong Li , Jilin Univ., China S2-OL-03 Polyoxometalate hybrid supramolecular polymer
	Coffee Break (10:20-10:50)		
	Chair	Gregory N. Tew	Yuguo Ma
	10:50-11:15	Coleen Pugh , Univ. of Akron, USA S1-IL-10 Synthesis of functionalized polyesters, including PLA and PLGA	Holger Frauenrath , École Polytechnique Fédérale de Lausanne (EPFL), Switzerland S2-IL-10 Hierarchically structured materials and organic nanowires from oligopeptide-modified polymers
	11:15-11:40	Xianhong Wang , Changchun Institute of Applied Chemistry, CAS, China S1-IL-11 Thermal/pH dual responsive biodegradable polymer based on CO ₂ copolymer	Dongsheng Liu , Tsinghua Univ., China S2-IL-11 DNA smart materials
11:40-12:05	Maria Xenidou , Henkel, China S1-IL-12 Sustainability and innovation at henkel adhesive technologies – new acrylic polymers for high performance pressure sensitive adhesives	Yao Lin , Univ. of Connecticut, USA S2-IL-12 Cooperative supramolecular polymerization from macromolecules and nanoparticles	

June 04| Monday Morning

Topic 3 (Room 5040)	Topic 4 (Room 4040)	Topic 5 (Room 5039)
Manabu Tanaka	Junqiu Liu	Yongfeng Men
Wayne Z.Y. Wang , Carleton Univ., Canada S3-IL-07 Synthesis and properties of low-bandgap and near-infrared chromogenic polymers	Bradley D. Olsen , Massachusetts Institute of Tech., USA S4-IL-07 Self-assembly of block copolymers containing globular proteins	Shouke Yan , Beijing Univ. of Chemical Tech., China S5-IL-07 Multi-scale structure control of biodegradable polymers
Der-Jang Liaw , National Taiwan Univ. of Sci. and Tech., Taiwan S3-IL-08 New functional polymers for the potential application of optoelectronics: synthesis and characterization	Yong Huang , Technical Institute of Physics and Chemistry, China S4-IL-08 Cellulose graft copolymers with well-defined architecture: synthesis and self-assembly	Zhaohui Su , Changchun Institute of Applied Chemistry, CAS, China S5-IL-08 Microstructure and phase transition of regioregular poly(3-dodecylthiophene)
Xinhua Wan , Peking Univ., China S3-IL-09 Anthraquinone imide based NIR electrochromic and piezochromic materials	Xinqiao Jia , Univ. of Delaware, USA S4-IL-09 Mechano-responsive hydrogels crosslinked by self-assembled block copolymer micelles	Atsushi Hozumi , National Institute of Advanced Industrial Sci. and Tech., Japan S5-OL-03 Smooth polymer brush surfaces showing unusual contact angle behavior for nonpolar liquids
Zhenguo Chi , Sun Yat-sen Univ. China S3-OL-03 Piezofluorochromic polymer with aggregation-induced emission	Chang-Ming Dong , Shanghai Jiao Tong Univ., China S4-OL-03 Synthesis, stimuli-sensitive nanomedicine and hydrogels of nonlinear biodegradable block copolymers	Hui Wu , Kyushu Univ., Japan S5-OL-04 Crystallization and orientation of isotactic polystyrene in nanorods
Coffee Break (10:20-10:50)		
Xinhua Wan	Bradley D. Olsen	
Manabu Tanaka , Tokyo Metropolitan Univ., Japan S3-IL-10 Sulfonated block/graft copolyimides for polymer electrolyte membrane fuel cell	Alan R. Esker , Virginia Polytechnic Institute and State Univ., USA S4-IL-10 Enzyme catalyzed reactions with lignocellulosic polymers	
E. Bryan Coughlin , Univ. of Massachusetts, Amherst, USA S3-IL-11 Block copolymer containing quaternary benzyl ammonium ions for alkaline anion exchange membrane fuel cells	Junqiu Liu , Jilin Univ., China S4-IL-11 Design of biomimetic enzymes on nanoscaffolds	
Gang Zhang , Jilin University, China S3-OL-04 A novel cross-linked side-chain-type hydroxide exchange membrane	Zhigang Xie , Changchun Institute of Applied Chemistry, CAS, China S4-OL-04 Biodegradable amphiphilic polymer platinum conjugates as potent anticancer drugs	

June 04| Monday Afternoon

Afternoon Sessions (13:30-17:10)		Topic 1 (Room 4039)	Topic 2 (Room 6040)
	Chair	Eugene Chen	Joseph B. Schlenoff
	13:30-13:55	Guoxin Jin , Fudan Univ., China S1-IL-13 Organometallic catalysts for olefin polymerization	Chi Wu , The Chinese Univ. of Hong Kong, Hong Kong S2-IL-13 Synthesis, characterization and ultrafiltration of “defect-free” hyperbranched chains
	13:55-14:20	Atsushi Goto , Kyoto Univ., Japan S1-IL-14 Living radical polymerizations with organic catalysts	Yongfeng Zhou , Shanghai Jiao Tong Univ., China S2-IL-14 Hyperbranched-based supramolecular amphiphiles and their self-assembly behaviors
	14:20-14:45	Xiaobing Lü , Dalian Univ. of Tech., China S1-IL-15 Synthesis of crystalline CO ₂ -based polycarbonates by stereospecific polymerization catalysis	Tung-Pi Hsueh , Chi Mei Corporation, Taiwan S2-IL-15 Preparation of transparent polyimide/silica hybrid films by directly blending silica sol and polyimide
	15:45-15:05	Xiaodong Xu , Harbin Engineering Univ., China S1-OL-04 Synthesis of optically active (s)-n-(2-hydroxy-1-phenylethyl) methacrylamide and its radical polymerization in the presence of lewis acids	Jianguo Tang , Qingdao Univ., China S2-OL-04 Strategy and applications of metal ions embedded in polymers
	Coffee Break (15:05-15:35)		
	Chair	Atsushi Goto	Yongfeng Zhou
	15:35-16:00	Eugene Chen , Colorado State Univ., USA S1-IL-16 Acrylic bioplastics by metal, metalloid, and organic catalysts: from stereorandom to stereoperfect sustainable polymers	Joseph B. Schlenoff , The Florida State Univ., USA S2-IL-16 Saloplastics
	16:00-16:25	Yong Tang , Shanghai Institute of Organic Chemistry, CAS, China S1-IL-17 Sidearm—performance control of titanium imino-enolates in olefin polymerization	Junqi Sun , Jilin Univ., China S2-IL-17 Layer-by-layer assembled self-healing coatings
16:25-16:50	Dongmei Cui , Changchun Institute of Applied Chemistry, CAS, China S1-IL-18 Organometallic catalytic system mediated immortal-shuttling polymerizations to synthesize topologic stereoblock gradient functional polymers	Jens Rieger , BASF SE, Germany S2-IL-18 Polymers and peptides at interfaces: mimicking nature?	
16:50-17:10	Jingyu Liu , Changchun Institute of Applied Chemistry, CAS, China S1-OL-05 The synthesis and characterization of novel group IV half-metallocene complexes and their application to ethylene polymerization	Jinying Yuan , Tsinghua Univ., China S2-OL-05 Self-healing materials based on electrochemical-responsive supramolecular polymer	

June 04| Monday Afternoon

Topic 3-1 (Room 5040)	Topic 3-2 (Room 5039)	Topic 4 (Room 4040)
Kai Li	James J. Watkins	Andreas Herrmann
Zhishan Bo , Beijing Normal Univ., China S3-IL-12 Planar narrow band gap conjugated polymers for high efficiency polymer solar cells	Wen-Chang Chen , National Taiwan Univ., Taiwan S3-IL-17 Biaxially extended thiophene based conjugated copolymers for high performance field effect transistors	Mitchell A. Winnik , Univ. of Toronto, Canada S4-IL-12 Metal-chelating polymers for radioimmunotherapy and multiplexed immunoassays
Takeo Suga , Waseda Univ., Japan S3-IL-13 Ionic liquid-assisted selective functionalization of block copolymer self-assembly for electronics application	Dong Hoon Choi , Korea Univ., Korea S3-IL-18 J-aggregated single-crystalline organic semiconductors and their electronic applications	Linqi Shi , Nankai University, China S4-IL-13 Thermal responsive mixed-shell micelles for refolding of denatured proteins and biodistribution
Hongzheng Chen , Zhejiang Univ., China S3-IL-14 Polymer-inorganic hybrid solar cells: materials synthesis and interface engineering	Hongxiang Li , Shanghai Institute of Organic Chemistry, CAS, China S3-IL-19 Design and syntheses of high performance organic semiconductors for organic field-effect transistors	Zhibo Li , Institute of Chemistry, CAS, China S4-IL-14 Design and synthesis of thermo-responsive polypeptide
Mao Li , National Institute for Materials Sci., Japan S3-OL-05 Electrochemical coupling layer-by-layer (ECC-LBL) assembly: structure and function controllable synthesis	Hanying Li , Zhejiang Univ., China S3-OL-07 On-grown single-crystals of organic semiconductors for transistors and complementary inverters	Xing Wang , Beijing Univ. of Chemical Tech., China S4-OL-05 From cell to protein: their differential behaviours to chiral biointerface
Coffee Break (15:05-15:35)		
Hongzheng Chen	Wen-Chang Chen	Zhibo Li
Ye Tao , Institute for Microstructural Sci., National Research Council Canada, Canada S3-IL-15 Thieno[3,4-c]pyrrole-4,6-dione and dithieno[3,2-b:2',3'-d]silole copolymer for high efficiency solar cell applications	James J. Watkins , Univ. of Massachusetts Amherst, USA S3-IL-20 Additive-driven assembly of hybrid materials for device applications	Prof. Yen Wei , Tsinghua Univ. S4-IL-15 Nanostructured polymers for biotechnology and biomedicine
Junwu Chen , South China Univ. of Tech. China S3-IL-16 Cathode modifications in conventional and inverted solar cells with hydrophilic conjugated polymer interlayer	Dahui Zhao , Peking Univ., China S3-IL-21 Photophysics and applications of tricyclometalated iridium having conjugated oligomer ligands	Andreas Herrmann , Univ. of Groningen, the Netherlands S4-IL-16 DNA hybrid polymers for biomedicine and diagnostics
Rubo Xing , Changchun Institute of Applied Chemistry, CAS, China S3-OL-06 Thickness uniformity adjustment of inkjet printed light-emitting polymer films	Junqiao Ding , Changchun Institute of Applied Chemistry, CAS, China S3-OL-08 Highly efficient blue light-emitting electrophosphorescent polymers based on a poly(arylene ether phosphine oxide)s platform	Wei Wu , Nanjing Univ., China S4-OL-06 In vivo behavior and antitumor performance of doxorubicin-loaded boron-rich polymeric nanoparticles
		Changfeng Wu , Jilin Univ., China S4-OL-07 Highly fluorescent semiconducting polymer dots for biological applications

June 05| Tuesday Morning

		Topic 2 (Room 6040)	Topic 3-1 (Room 5040)
Morning Sessions (8:45-12:05)	Chair	Hanying Zhao	Chuluo Yang
	8:45-9:10	Hiroyasu Yamaguchi , Osaka Univ., Japan S2-IL-19 Visualization of specific molecular recognition events by monoclonal antibodies or cyclodextrins with synthetic polymers	Julian X. Zhu , Univ. of Montreal, Canada S3-IL-22 Bile acid-containing materials: from oligomers to star polymers
	9:10-9:35	Xiaogong Wang , Tsinghua Univ., China S2-IL-20 Self-assembly of photoresponsive azo polymers	Bai Yang , Jilin Univ., China S3-IL-23 Responsive polymer hybrid materials based on bio-inspired ordered microstructures
	9:35-10:00	Qiang He , Harbin Institute of Tech., China S2-OL-06 Functionalized layer-by-layer assembled micro/nanostructures serve as both autonomous motor and smart cargo	Shuizhu Wu , South China Univ. of Tech., China S3-IL-24 Nanoparticle as scaffolds for fluorescent sensing systems
	10:00-10:20	Xinhong Yu , Changchun Institute of Applied Chemistry, CAS, China S2-OL-07 Microphase separation and crystallization of all-conjugated Phenylene-Thiophene diblock Copolymers	Xuanjun Zhang , Linköping Univ., Sweden S3-OL-09 Semiconducting polymer nanoparticles with bright NIR emission for biological applications
	Coffee Break (10:20-10:50)		
Chair	Hiroyasu Yamaguchi	Julian X. Zhu	
10:50-11:15	Hanying Zhao , Nankai Univ., China S2-IL-21 Polymerization and chemical reaction on the polymeric micelles	Aleksandr V. Iakimanskii , Institute of Macromolecular Compounds of Russian Academy of Sci., Russia S3-IL-25 Chromophore- and luminophore-containing polymers for optoelectronics	
11:15-11:40	Feng Yan , Soochow Univ., China S2-OL-08 Polymerization of & in ionic liquid-based microemulsions	Chuluo Yang , Wuhan Univ., China S3-IL-26 White polymer light-emitting devices from single polymer with dendritic orange phosphore and blue fluorophore	
11:40-12:05	Yapei Wang , Renmin Univ. of China, China S2-OL-09 Engineering shape- and size-specific nonspherical polymeric colloids	Kenneth R. Carter , Univ. of Massachusetts Amherst, USA S3-IL-27 Chemistry and devices of semiconducting polymer networks via photo “click” chemistry	

June 05| Tuesday Morning

Topic 3-2 (Room 5039)	Topic 4-1 (Room 4040)	Topic 4-2 (Room 4039)
Fei Huang	Zhiyuan Zhong	Yubin Huang
Keiji Nagai , Tokyo Institute of Tech., Japan S3-IL-28 Full-spectrum visible-light- responsive organophotocatalyst film	Adah Almutairi , Univ. of California at San Diego, USA S4-IL-17 Responsive polymers: amplifying sensitivity to light	Xiabin Jing , Changchun Institute of Applied Chemistry, CAS, China S4-IL-22 Polymer conjugate drugs, from concept to clinic
Huisheng Peng , Fudan Univ., China S3-IL-29 Novel responsive polymer materials incorporated with aligned carbon nanotubes	Peihong Ni , Soochow Univ., China S4-IL-18 Synthesis of double-hydrophilic block copolymers via combination of oxyanion-initiated polymerization and polymer reaction for fabricating magnetic target gene carrier	Andrea M. Kasko , Univ. of California, Los Angeles, USA S4-IL-23 Controlled photorelease of therapeutics from hydrogels
Takayuki Suzuki , Tokyo Denki Univ., Japan S3-IL-30 Photo-responsive adsorption in polymer metal complexes	Zhihua Gan , Institute of Chemistry, Chinese Academy of Sciences, China S4-IL-19 Molecular engineering and biofunctionalization of water-soluble polymers and biodegradable polymers	Youqing Shen , Zhejiang Univ., China S4-IL-24 Prodrugs as multifunctional drug nanocarriers
Gang Wu , Zhejiang Univ., China S3-OL-10 Polymer/ZnO hybrid materials for near-UV sensors with wavelength selective response	Harikrishna Trivedi , Sardar Patel Univ., India S4-OL-08 Studies in photo-induced grafting of acrylonitrile onto sodium salt of partially carboxymethylated psyllium : synthesis, characterization and evaluation	Fusheng Du , Peking Unvi., China S4-OL-10 Ortho ester-based acid-sensitive polymers as drug vehicles
Coffee Break (10:20-10:50)		
Keiji Nagai	Adah Almutairi	Andrea M. Kasko
Mitsuru Ueda , Tokyo Institute of Technology, Japan S3-IL-31 Synthesis and characterization of high refractive index and high abbe's number poly(thioether sulfone)s based on tricyclo[5.2.1.0 _{2,6}]decane moiety	Qingsong Yu , Univ. of Missouri, USA S4-IL-20 Non-thermal atmospheric argon plasmas for dental composite restoration application	Tanja Weil , Ulm Univ., Germany S4-IL-25 Proteins as versatile precursors for biopolymer synthesis, defined supramolecular assemblies as well as macromolecular drugs
Fei Huang , South China Univ. of Tech., China S3-IL-32 Conjugated polymers with highly polar side chains for high-performance optoelectronic devices	Zhiyuan Zhong , Soochow Univ., China S4-IL-21 Versatile synthesis and biomedical applications of functional biodegradable polymers	Yubin Huang , Changchun Institute of Applied Chemistry, CAS, China S4-IL-26 Necrosis of cervical carcinoma by dichloroacetate released from electrospun polylactide mats
Weiwei Li , Eindhoven Univ. of Tech., The Netherlands S3-OL-11 Precisely controlling energy level of diketopyrrolopyrrole based conjugated polymers for polymer solar cells	Tao lei Sun , Wuhan Univ. of Tech., China S4-OL-09 Chiral polymeric biointerface materials	Jianbing Shi , Beijing Institute of Tech., China S4-OL-11 Synthesis and property of a water-soluble aggregation-induced emission enhancement conjugated polymer

June 05| Tuesday Afternoon

		Topic 3 (Room 5040)	Topic 4 (Room 6040)
Afternoon Sessions (14:30-17:15)	Chair	Junwu Chen	Zhaohui Su
	14:30-14:55	Zhiyuan Xie , Changchun Institute of Applied Chemistry, CAS, China S3-IL-33 High efficiency inverted PCDTBT-based polymer solar cells with new cathode buffer layers	Haojun Liang , Univ. of Sci. and Tech. of China, China S4-IL-27 Conformational switch in the G-quadruplex of thrombin-binding aptamer induced by Pb ²⁺
	14:55-15:20	Itaru Osaka , Hiroshima Univ., Japan S3-IL-34 Conjugated polymers for organic field-effect transistors and organic solar cells	Matthew I. Gibson , Univ. of Warwick, UK S4-IL-28 Combining bio-organic and macromolecular chemistry for glycobiology
	15:20-15:45	Ning Ma , Univ. of Sci. and Tech. Beijing, China S3-OL-12 Hybrid core-shell nanoparticles with metal-enhanced fluorescence effects	Hui Gao , Tianjin Univ. of Tech., China S4-OL-12 Poly(glycerol methacrylate) derivatives for medical application
	15:45-16:05		Baoxiang Gao , Hebei Univ., China S4-OL-13 Water-soluble fluorescent probes based on dendronized polyfluorenes for live cell imaging
	Coffee Break (16:05-16:30)		

POSTERS

Topic 1, Polymer synthesis

- T1-P-01 Iron catalyst for 1,3-diene polymerization**
*Jifu Bi, Feng Yang**, *Chenxi Bai, Xue-quan Zhang**, *Xiaofeng He, Bin Chen*
Changchun Inst. Appl. Chem., CAS, China
- T1-P-02 Polymerization of methylmethacrylate catalyzed by bis-salicylaldehyde nickel(II) complexes and MAO**
Qian Chen, Xingli Zhao, Danfeng Zhang, Yonqiang Wang
Daqing petrochemical research center of CNPC, China
- T1-P-03 Polymerization based on Passerini reaction: a powerful tool for preparing sequence regulated poly(ester amide)**
*Xinxing Deng, Lei Li, Zilong Li, An Lv, Fusheng Du and Zi-Chen Li**
Changchun Inst. Appl. Chem., CAS, China
- T1-P-04 Chromium complexes with mixed tri-heteroatomic ligand: synthesis, characterization and its use in selective ethylene oligomerizations**
Yanshan Gao, Xiuli Sun, Yong Tang, Zuowei Xie**
Shanghai Institute of Organic Chemistry, CAS, China
- T1-P-05 Synthesis and chiral recognition ability of poly(phenylacetylene) derivative bearing L-phenylalanine ethyl ester as chiral stationary phase**
Chunhong Zhang, Qianqian Geng, Hailun Wang, Shuang Zhang, Xiande Shen, Yoshio Okamoto*
Harbin Engineering University, China
- T1-P-06 Rapid synthesis of well-defined star polymers via high vacuum living anionic polymerization**
Jinlin He, Kan Yue, Peihong Ni, Roderic P. Quirk, Stephen Z. D. Cheng*, Wen-Bin Zhang**
Soochow University, China
- T1-P-07 Ring-opening polymerization of ϵ -caprolactone catalyzed by BINOL phosphoric acid**
Liangzhi Hong, Xi Zhou and Guangzhao Zhang
South China University of Technology, China
- T1-P-08 Synthesis of novel cyclic olefin copolymer (COC) with high performance via effective copolymerization of ethylene with bulky cyclic olefin**
*Miao Hong, Yuesheng Li**
Changchun Inst. Appl. Chem., CAS, China
- T1-P-09 Synthesis of new arylpalladium(II)halide complexes containing triphenyl-amine group and their application in the Suzuki polymerization**
Pan Hu, Hongwei Fu, Jing Li, Zilong Zhang, Xiao Li, and Yanxiang Cheng**
Changchun Inst. Appl. Chem., CAS, China

- T1-P-10 Polymerization of 1,3-pentadiene by a Nd-carboxylate catalyst – the effect of polymerization temperature**
Xiangyu Jia, Hongguang Cai, Chenxi Bai, Xuequan Zhang**
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-11 Synthesis and characterization of series of novel caprolactone-tung oil copolyols**
Xiaozhan Guo, Zhiyong Ren, Yang Fu, Lei Jiang, Zhihong Liang, Changjiang Zhao*
 High&New Technology Research Center of Henan Academy of Sciences, China
- T1-P-12 Molecular structure effect on melt grafting of acrylates onto polyolefin**
*Jialin Li, Zhiqiang Duan, Cheng Gong, Xuming Xie**
 Tsinghua University China
- T1-P-13 Catalysts for Suzuki polycondensation: ionic and “quasi-ionic” amphipathic palladium complexes with self-phase-transfer feature**
*Jing Li, Hongwei Fu, Pan Hu, Zilong Zhang, Xiao Li, and Yanxiang Cheng**
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-14 Syndiospecific polymerization of styrene with Ar[O,O/NH]Cp*TiCl activated with MMAO**
Lingyun Li
 Daqing Oilfield Company Ltd. Exploration and Development of Research Institute, China
- T1-P-15 Periodic vinyl copolymers via acyclic diene metathesis polymerization of structurally symmetric monomers containing two gamma-butyrolactone units**
*Zilong Li, Lei Li, Xinxing Deng, Lijing Zhang, Botao Dong, Fusheng Du, Zichen Li**
 Peking University, China
- T1-P-16 Synthesis of well-defined graft copolymers by nucleophilic substitution reaction between polyhalohydrocarbon and macromolecular living anion**
*Yichao Lin, Jun Zheng, Tao Tang**
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-17 Coordination chain transfer polymerization of Isoprene using Fe(acac)₃/phen/tiba system**
Heng Liu, Xiangyu Jia, Quanquan Dai, Chenxi Bai, Xuequan Zhang**
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-18 Preparation and properties of ethylene-norbornene copolymer with novel titanium complex as catalyst**
Haifang Ma, Hexin Zhang, Hao Zhang, Bo Dong, Feng Yang, Xue-quan Zhang**
 Shenyang University of Chemical Technology, China
- T1-P-19 Aluminum and yttrium complexes supported by asymmetrical schiff base ligand: synthesis, structure, and catalysis for stereoselective ring-opening polymerization of rac-lactide**
*Zehuai Mou, Yang Wang, Wei Zhao, Dongmei Cui**
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-20 Synthesis of multinuclear rhodium n-heterocyclic carbene complexes**
Chunliang Niu, Xiaoyan Yu, Qingxin Zhang*
 Hebei University of Technology, China

- T1-P-21 The application of titanium complexes in the olefin polymerization**
*Aiqing Peng, Xiuli Sun, Junfang Li, Yong Tang**
 Shanghai Institute of Organic Chemistry, China
- T1-P-22 Rare-earth metal complexes bearing a bis(iminophosphorano)imino ligand: structure and catalysis toward isoprene polymerization**
*Weifeng Rong and Dongmei Cui**
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-23 Preparation and surface property control of exchangeable polymer brushes**
*Tomoya Sato, Yoshifumi Amamoto, Hiroki Yamaguchi, Atsushi Takahara, and Hideyuki Otsuka**
 Kyushu University Japan
- T1-P-24 Synthesis of hyperbranched polymers with pendent allene groups via raft polymerization of a novel asymmetrical divinyl monomer**
*Guorong Shen, Youmei Bao, YueSheng Li**
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-25 Toward hydrolysis regulation of polymers with pendent ortho esters using tertiary amine**
*Chengcheng Song, Cuicui Su, Fusheng Du, Dehai Liang, Zichen Li**
 Peking University, China
- T1-P-26 Reversible cross-linking reactions of polymers with alkoxyamines in the side chains under bulk conditions**
*Jing Su, Yoshifumi Amamoto, Tomoya Sato, Tomoyuki Ohishi, Yuji Higaki, Atsushi Takahara, and Hideyuki Otsuka**
 Kyushu University Japan
- T1-P-27 Controlled synthesis of polyfluorenes via Kumada catalyst transfer polycondensation with Ni(acac)₂/dppp as the catalyst**
Aiguo Sui, Xincui Shi, Shupeng Wu, Hongkun Tian, Yanhou Geng, and Fosong Wang*
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-28 Highly efficient ethylene/norbornene (NBE) copolymerization by half-titanocene complexes bearing o-di(phenyl)phosphanylphenolate ligands: surprising enhancement in activities by nbe**
*Xiaoyan Tang, Yongxia Wang, Baixiang Li, Jingyu Liu, Yuesheng Li**
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-29 Synthesis, structures and ethylene polymerization behavior of novel chromium complexes based on tridentate β-enaminoketonato ligands**
Ping Tao, Jingyu Liu, Yuesheng Li*
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-30 2-pyrazolyl substituted 1,10-phenanthroline ligated iron(III) complexes for butadiene polymerization**
Baolin Wang, Dirong Gong, Jifu Bi, Liansheng Jiang, Chenxi Bai, Xuequan Zhang**
 Changchun Inst. Appl. Chem., CAS, China

- T1-P-31 Reversible coordinative chain transfer polymerization of isoprene by neodymium isopropoxide catalyst system**
Feng Wang, Chunyu Zhang, Chenxi Bai, Xuequan Zhang**
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-32 Effects of hydrogen on performance of butene-1 polymerization catalyzed by Ziegler-Natta catalyst**
Xiuhui Wang, Liying Liu, Yali Wang, Qian Chen, Zhibo Liu
 Daqing Petrochemical Research Center of CNPC, China
- T1-P-33 Synthesis of poly(3-hexylthiophene) with narrow molecular weight distribution and controlled molecular weight by chain growth kumada catalyst-transfer polycondensation**
*Lingming Xia, Jingchuan Song, Qing Liang and Yumei Gong**
 Dalian Polytechnic University, China
- T1-P-34 Hyperbranched polymers synthesized via natural sunlight**
*Junjie Yan, and Yezi You**
 University of Science and Technology of China, China
- T1-P-35 Hybrid copolymerization of ϵ -caprolactone and methyl methacrylate**
*Hongjun Yang, Jinbao Xu, Stergios Pispas, and Guangzhao Zhang**
 University of Science and Technology of China, China
- T1-P-36 Copolymerization of ethylene with dicyclopentadiene catalyzed by cationic fluorenyl n-heterocyclic carbene ligated scandium alkyl complex**
*Changguang Yao, Chunji Wu, Baoli Wang, Dongmei Cui**
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-37 Chromium-based catalyst systems for ethylene tetramerization**
Buwei Yu, Dongjun Wang, Wenpeng Li, Baojun Zhang, Yunguang Han, Qian Chen.
 Daqing Chemical Research Center of CNPC, China.
- T1-P-38 DSC study on non-isothermal reaction kinetics between tung oil polyol and isocyanates**
Chunli Zhang, Yingjie Jin, Zhiyong Ren, Yang Fu, Yanbing Zhang*
 High&New Technology Research Center of Henan Academy of Sciences, China
- T1-P-39 Preparation of titanium complex bearing naphthalenesulfonate ligand and its application as catalyst in ethylene polymerization**
Hao Zhang, Xiaoping Cai, Chunyu Zhang, Bo Dong, Hexin Zhang, Xuequan Zhang*.*
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-40 Synthesis, structural characterization, and olefin polymerization behavior of vanadium(III) complexes bearing bidentate phenoxy-phosphine ligands**
*Senwang Zhang, Lingpan Lu, Baixiang Li, Yuesheng Li**
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-41 Design and synthesis of an end-functionalized polystyrene with 8-hydroxyquinoline zinc complexes via a combination of ATRP, click reaction and coordination chemistry**
Chunhong Zhang, Shuang Zhang, Guangdong Su, Qianqian Geng*
 Harbin Engineering University, China

- T1-P-42 Formation of goblet cell-like nanomaterial with reversible stimuli-responsive chromism via polymerization-induced self-assembly and reorganization**
Wenjian Zhang, Chunyan Hong, Caiyuan Pan**
 University of Science and Technology of China, China
- T1-P-43 A novel approach for in situ synthesis of Au-Ag core-shell nanoparticles in polyelectrolyte multilayers**
*Xin Zhang, Zhaohui Su**
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-44 Hydrozirconation of polybutadiene for Advanced polymer chain modification and scission**
*Jun Zheng, Yichao Lin, Tao Tang **
 Changchun Inst. Appl. Chem., CAS, China
- T1-P-45 UV study on reaction of conjugated double bonds in tung oil based polyurethanes**
Linzhi Wu, Zhiyong Ren, Liuhe Wei, Lei Jiang, Yawei Zhang*
 High&New Technology Research Center of Henan Academy of Sciences, China

Topic 2, Macromolecular architecture and supramacromolecules

- T2-P-01 Water-soluble hyperbranched poly(ester urethane)s based on D,L-alanine: isocyanate-free synthesis, post-functionalization and application**
*Youmei Bao, Guorong Shen, and Yuesheng Li**
 Changchun Inst. Appl. Chem., CAS, China
- T2-P-02 Induced-assembly of amphiphile molecular to designed vesicle structure**
*Yuanchen Dong, Zhongqiang Yang, Dongsheng Liu **
 Tsinghua University, China
- T2-P-03 Synthesis and application of ladder-like polysiloxane and polynorbornene with n-type perylene diimide derivatives as bridges**
*Wenxin Fu, Zhibo Li**
 Institute of Chemistry, Chinese Academy of Sciences, China
- T2-P-04 Growth of long-subchain hyperbranched polystyrene via CUAAC click reaction: influences of solvent and seesaw macromonomer molar mass**
Chen He and Weidong He
 The University of Science and Technology of China, China
- T2-P-05 Synthesis of degradable organic nanotubes by bottlebrush molecular templating**
Kun Huang, Mark Johnson and Javid Rzayev
 East China Normal University, China
- T2-P-06 Bis-benzoxazine resins with high char yield and toughness modified by hyperbranched poly(resorcinol borate)**
*Jingjing Si, Peijun Xu, Wei He, Shujuan Wang, Xinli Jing **
 Xi'an Jiaotong University, China

- T2-P-07 Substituent effect on the electronic properties and self-assembling properties of tetracene derivatives containing adjacently fused pyrazines**
*Ying Li, Ming Wang, Hui Tong, Lixiang Wang**
 Changchun Inst. Appl. Chem., CAS, China
- T2-P-08 Facile synthesis of polypeptide bottlebrushes**
*Yu Liu and Zhibo Li**
 Institute of Chemistry, Chinese Academy of Sciences, China
- T2-P-09 Morphology alteration of PEO-PCL micelle induced by inorganic salt**
*Mei Su, Zhaohui Su**
 Changchun Inst. Appl. Chem., CAS, China
- T2-P-10 Self-assembly of surface micelles in bulk solutions**
*Lichao Sun, Hanying Zhao**
 Nankai University, China
- T2-P-11 Self-assembly of L-lysine functionalized perylene bisimide**
Yan Sun, Zhibo Li and Zhaohui Wang**
 Institute of Chemistry, Chinese Academy of Sciences, China
- T2-P-12 Synthesis of hyperbranched core-double-shell miktoarm architectures with stimuli-responsive properties**
Wei Tian, Xiaoyan Lv, Xiaodong Fan
 Northwestern Polytechnical University, China
- T2-P-13 An easy method to prepare hyperbranched polymers via simultaneous thiol-amine-methacrylate michael additon reaction**
*Hua Wang, and Ye-zi You**
 University of Science and Technology of China, China
- T2-P-14 Solvation effect in polyelectrolyte solutions**
*Liquan Wang, Jiaping Lin**
 East China University of Science and Technology, China
- T2-P-15 Preparation and photochromic properties of spiropyran-based hyperbranched star copolymer**
Ying Wang, Chunyan Hong, Caiyuan Pan**
 University of Science and Technology of China, China
- T2-P-16 Effects of divalent counterion on properties of polyelectrolyte multilayers**
*Jingjing Wei, Liming Wang, Zhaohui Su**
 Changchun Inst. Appl. Chem., CAS, China
- T2-P-17 Functionalized layer-by-layer capsules serve as both autonomous motor and smart cargo**
*Yingjie Wu, Xiankun Lin, Weiwei Li, Qiang He**
 Harbin Institute of Technology, China
- T2-P-18 Functionalized layer-by-layer assembled nanotubes serve as both autonomous motor and smart cargo**
*Zhiguang Wu, Wenping He, Xiankun Lin, Qiang He**
 Harbin Institute of Technology, China

- T2-P-19 Oxidation induced morphology evolution from fibrils to network of dendron-b-oligoaniline-b-dendron triblock oligomer thin films**
Wei Xiong, Hanfu Wang, Yanchun Han**
 Changchun Inst. Appl. Chem., CAS, China
- T2-P-20 Photo-responsive micorgels formed via a thiol-michael addition click reaction**
*Huijuan Zhang, Yan Xin, Qiang Yan, Lilin Zhou, Liao Peng, Jinying Yuan**
 Tsinghua University, China
- T2-P-21 Cyclic polymers as a building block for advanced materials**
*Ke Zhang, Melissa, A. Lackey, Jun Cui, and Gregory N. Tew**
 University of Massachusetts Amherst, USA
- T2-P-22 Polymeric micelles with porous cores**
*Yue Zhang, Hanying Zhao**
 Nankai University, China

Topic 3, Functional Polymers

- T3-P-01 Phosphonate functionalized 4,4'-bis(n-carbazolyl)biphenyl: turning the single-layer device performance through hole- to electron-dominated transition**
Bo Chen, Baohua Zhang, Junqiao Ding, Lixiang Wang*, Xiabin Jing, Fosong Wang*
 Changchun Inst. Appl. Chem., CAS, China
- T3-P-02 Novel conjugated polymers based on dithienocarbazole for solution processed thin-film transistors**
*Yagang Chen, Chengfang Liu, Hongkun Tian, Cheng Bao, Donghang Yan, Yanhou Geng,**
 Changchun Inst. Appl. Chem., CAS, China
- T3-P-03 Synthesis and characterization of low bandgap polymer based on dithieno[2,3-b;7,6-b]carbazole and diketopyrrolopyrrole**
Yunfeng Deng, Yagang Chen, Hongkun Tian, Donghang Yan, YanhouGeng, and Fosong Wang*
 Changchun Inst. Appl. Chem., CAS, China
- T3-P-04 Soluble vanadyl phthalocyanines for organic thin-film transistors**
Shaoqiang Dong, Hongkun Tian, Donghang Yan, Yanhou Geng, Fosong Wang*
 Changchun Inst. Appl. Chem., CAS, China
- T3-P-05 Synthesis and properties of a fluorene-based epoxy resin**
Tiantian Feng, Li Han, Guobin Li, Jun Wang, Wenbin Liu*
 Harbin Engineering University, China
- T3-P-06 Synthesis of CNTS-g-PEG and LiFePO₄/CNTs-g-PEG composites as cathode in Li-ion batteries**
Chunli Gong, Li Deng, Xiaoen Wang, Xingping Zhou, Zhigang Xue, Xiao-Lin Xie**
 Huazhong University of Science and Technology, China
- T3-P-07 Synthesis, polymerization behavior and thermal properties of fluorene diamine-based benzoxazines**
*Xuanyu He, Tiantian Ren, Jun Wang, Wenbin Liu**
 Harbin Engineering University, China

- T3-P-08 Syntheses and evaluation of cross-linked cationic hydrogels showing swelling-shrinking behavior in response to pH and temperature**
Yasushi Hirata, Takayuki Suzuki
 5 Asahi-cho Senjyu Adachi-ku Tokyo, Japan
- T3-P-09 A click chemistry approach to the efficient synthesis of polyoxometalate-polymer hybrids**
*Minbiao Hu, Nan Xia, Haikuan Yang, Wei Yu, Chi Ma, Jing Tang, Ping Zheng, Wei Wang**
 Nankai University, China
- T3-P-10 Synthesis of phthalonitrile polymer/nanodiamond composites**
*Chao Kang, Xiongwei Qu, Qingxin Zhang**
 Hebei University of Technology, China
- T3-P-11 Influence of thermal stability of spiropyran on water content in non-crosslinked copolymer membranes with hydroxy groups and evaluation of photo-reversible metal-ion complexation.**
Tomohiko Kitsukawa, Takayuki Suzuki.
 5 Asahi-cho Senjyu, Adachi-ku Tokyo, Japan
- T3-P-12 Synthesis and photovoltaic behaviors of triphenylamine-based conjugated polymers**
Cuihong Li, Ming Wang, Zhishan Bo
 Beijing Normal University, China
- T3-P-13 Engineering single-layer device performance of red light-emitting electrophosphorescent conjugated polymers via charge trap depth**
*Zhihua Ma, Lixiang Wang**
 Changchun Inst. Appl. Chem., CAS, China
- T3-P-14 Synthesis and property of magnetic modified carbon nanotubes/poly(benzoxazole) (PBO) composites**
Xiaoyang Mao, Dan Wang, Jia Wei, Qixin Zhuang, Xiaoyun Liu, Zhewen Han.
 East China University of Science and Technology, China.
- T3-P-15 Vapor-phase polymerized polythiophene for donor materials in photovoltaic application**
*Kaoru Minagawa, Takeo Suga, Hiroyuki Nishide**
 Waseda University, Tokyo 169-8555, Japan
- T3-P-16 Vapor-phase polymerized conducting polymer / redox polymer composite electrodes for an organic flexible rechargeable battery**
*Erina Minami, Tatsunori Takamatsu, Takeo Suga, Bjørn Winther-Jensen, Hiroyuki Nishide**
 Waseda University, Japan
- T3-P-17 Syntheses of polymers containing nitroxide radicals by anionic polymerization toward the application to organic secondary battery**
Hajime Omata, Takashi Sukegawa, Kenichi Oyaizu, Hiroyuki Nishide
 Waseda University, Japan
- T3-P-18 Visible to near-infrared photodetectivity of diazapentalene-containing narrow bandgap polymers**
*Ji Qi, Gang Qian and Zhi Yuan Wang**
 Changchun Inst. Appl. Chem., CAS, China

- T3-P-19 Donor-acceptor conjugated co-oligomers for preparation of films with the ideal morphology for bulk heterojunction solar cells**
Jianfei Ou, Jian Liu, Yao Qu, Zhiyuan Xie, Yanhou Geng, Fosong Wang*
 Changchun Inst. Appl. Chem., CAS, China
- T3-P-20 Photo-reversible oxygenation of polymer cobalt(II)salen complexes coordinating with pyridine ligands adjacent to photo-responsive portions**
Shun Ubukata, Takayuki Suzuk
 Tokyo Denki University, Tokyo, Japan
- T3-P-21 Molecular engineering of electrophosphorescent polymers for tailoring triplet energy back transfer: a spiro-linked hyperbranched architecture and a series of bipolar, high-triplet energy polymer hosts**
Shiyang Shao, Junqiao Ding, Lixiang Wang*, Xiabin Jing and Fosong Wang*
 Changchun Inst. Appl. Chem., CAS, China
- T3-P-22 Interfacial synthesis of polyaniline/MnO₂/graphene oxide composites for supercapacitor electrodes**
*Guangxiang Wang, Qianqiu Tang, Minqiang Sun, Gengchao Wang **
 East China University of Science and Technology, China
- T3-P-23 Synthesis and electrochemical characterization of poly(1,5-diaminoanthraquinone)**
*Minqiang Sun, Tingyu Chi, Guangxiang Wang, Gengchao Wang **
 East China University of Science and Technology, China
- T3-P-24 Crosslinked polymers for hole transporting buffer layer materials in photovoltaic device**
Ying Sun, Baoping Lin.
 Southeast University, China
- T3-P-25 Synthesis and properties of radical polymer/polyaniline composite as secondary battery cathode**
Hanae Tatsuhira, Kenichi Oyaizu, and Hiroyuki Nishide
 Waseda University, Japan
- T3-P-26 Synthesis and thermal properties of novel difunctional chiral and achiral benzoxazines with double chiral center**
*Hui Wang, Lulu Zhao, Qingwei Zhang, Jun Wang, Wenbin Liu **
 Harbin Engineering University, China
- T3-P-27 Shear failure of liquid capillary bridges between patterned features**
*Liming Wang and Thomas J. McCarthy**
 University of Massachusetts, USA
- T3-P-28 Physical nanocomposite hydrogels with extremely high mechanical strength**
*Xiping Wang, XuMing Xie**
 Tsinghua University, China.
- T3-P-29 Dip-coating crystallization using smooth chemically patterned surfaces**
*Yan Wang and Thomas J. McCarthy**
 University of Massachusetts, USA

- T3-P-30 Novel water-soluble poly(arylene ethynylene)s with amino acid side chains for highly sensitive detection of mercury(II) ions**
Xiaofu Wu, Bowei Xu, Haibo Li, Hui Tong, Lixiang Wang**
 Changchun Inst. Appl. Chem., CAS, China
- T3-P-31 Fluorescent detection of heparin by a cationic conjugated polyfluorene probe containing aggregation-induced emission units**
Bowei Xu, Xiaofu Wu, Haibo Li, Hui Tong, Lixiang Wang**
 Changchun Inst. Appl. Chem., CAS, China
- T3-P-32 Permanent antistatic agents based on sodium acrylate functionalized polyolefin wax**
Xiang Xu, Yong Guan, Dafu Wei, Anna Zheng
 East China University of Science and Technology, China
- T3-P-33 Synthesis and complexation of photocrosslinkable liquid crystalline stilbene dimers**
Yuye Chai, Xiaodong Xu, Coleen Pugh
 Harbin Engineering University, China
- T3-P-34 CMPs with core-shell structure: a simple strategy to control light-emitting properties of π -conjugated systems**
*Yanhong Xu, and Donglin Jiang**
 Institute for Molecular Science, National Institutes of Natural Sciences, Japan
- T3-P-35 Utilization of LSPR effect of plasmonic nanostructures to enhance power conversion efficiency of organic photovoltaic cells**
Haoli Zhang, Yifan Huang, Zeling Zhang and Qiang Wang
 Lanzhou University, China
- T3-P-36 Single-layer graphene oxide and donor material as interfacial bilayer for significant enhancement of power conversion efficiency of bulk heterojunction photovoltaic cells**
*Ze Zhong, Jian Liu, Zhi Yuan Xie and Zhi Yuan Wang**
 Changchun Inst. Appl. Chem., CAS, China

Topic 4, Bio-related and medical polymers

- T4-P-01 Thermo-responsive polypeptides from functional poly-L-glutamates**
*Chongyi Chen and Zhibo Li**
 Institute of Chemistry, the Chinese Academy of Sciences, China
- T4-P-02 Homo-catiomer integration into PEGylated polyplex micelle from block-catiomer for systemic anti-angiogenic gene therapy aimed at fibrotic pancreatic tumors**
Qixian Chen, Kensuke Osada, Takehiko Ishii, Makoto Oba, Mitsunobu R. Kano, Kazunori Kataoka
 The University of Tokyo, Japan
- T4-P-03 Facile synthesis of acid-labile biocompatible polymers with pendent ortho esters**
Jing Cheng, Fusheng Du, Ran Ji, Zhengying Qiao, Zichen Li**
 Peking University, China

- T4-P-04 Biodegradable graft copolymer micelles as superior nano-carriers for “smart” doxorubicin release**
*Ru Cheng, Wei Chen, Fenghua Meng, Chao Deng and Zhiyuan Zhong**
 Soochow University, China
- T4-P-05 Magnetic-DNA vector constructed from PDMAEMA polycation and PEGylated brush-type polyanion with crosslinkable shell**
*Ying Hao, Jinlin He, Mingzu Zhang, Peihong Ni**
 Soochow University, China
- T4-P-06 Reactive processing for development of PP/PLA alloy**
K. Kameo, K. Tajima, N. Hosaka, M. Shimano
 Petrochemicals Research Laboratory, Sumitomo Chemical Co., Ltd., Japan
- T4-P-07 Acid-sensitive polypseudorotaxane nanoparticles based on ortho ester-modified cyclodextrin and pluronic F-127**
*Ran Ji, Jing Cheng, Fusheng Du, Zichen Li**
 Peking University, China
- T4-P-08 Confined polymer brush gradients based on chemical nanolithography**
*Xiankun Lin, Qiang He**
 Harbin Institute of Technology, China
- T4-P-09 Environmental responsive nanoparticles of biocompatible polyurethanes for drug delivery**
*Anning Wang, Yanfang Sun, Jianbiao Ma, Hui Gao**
 Tianjin University of Technology, China
- T4-P-10 Preparing redox responsive and acid labile nanogels/microgels simply via adding water into polymerization system**
*Longhai Wang, Yezi You**
 University of Science and Technology of China, China
- T4-P-11 Folate-mediated, paclitaxel-conjugated polymeric micelles inhibits pulmonary metastatic hepatoma H22**
Wenbin Wu, Fuhong Zhang, Lei Liu, Shi Liu, Xiuli Hu, Yonghui Zheng, Jun Yue, Rui Wang, Ti Tong, Xiabin Jing**
 Changchun Inst. Appl. Chem., CAS, China
- T4-P-12 The anti-tumor activity of folate-targeted, paclitaxel-loaded polymeric micelles on human esophageal cancer cell line EC9706**
Wenbin Wu, Fuhong Zhang, Lei Liu, Yonghui Zheng, Xiuli Hu, Shi Liu, Jun Yue, Rui Wang, Ti Tong, Xiabin Jing**
 Changchun Inst. Appl. Chem., CAS, China
- T4-P-13 Modification of polymeric microspheres for cell growth**
Yin Yuan, Xudong Shi, Zhibo Li, Zhihua Gan, Fosong Wang**
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- T4-P-14 Degradable thermoresponsive polyesters by atom transfer radical polyaddition and click chemistry**
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T4-P-15 A multiresponsive controlled release of insulin system based on SiO₂@poly(N-isopropylacrylamide-co-3-acrylamidophenylboronic acid-co-dextran–maleic acid) core-shell microgels
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Topic 5, Structure and Characterization of Polymers

T5-P-01 Functionalization of polypropylene with 1-acryloyl-pyrrolidine-2-carboxylic acid by solid-phase grafting copolymerization
Xiujuan Chang, Xiaodong Xu, Leilei Qiu, Yuanqi Zhu, Lifen Zhang, Jian Zhou*
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T5-P-02 High dielectric constant compoaitte based on poly(*p*-phenylene benzobisoxazole) with graphene nanosheets
Yi Chen, Xiaoyang Mao, Zhong Xie, Qixin Zhuang, Xiaoyun Liu, Zhewen Han*
East China University of Science and Technology, China

T5-P-03 The crystallization of high-density polyethylene Filled with graphite
Qiqiong Dong, Mengqian Feng*
Jiaxing University, China

T5-P-04 Manipulating PCBM crystallization with polymer additives
*Lidong Zheng, Yanchun Han**
Changchun Inst. Appl. Chem., CAS, China

T5-P-05 The effect of homo polymers on the mophology evolution in triblock terpolymer
Xi Jiang, Takeshi Higuchi, Atsushi Takahara, Hiorshi Jinnai*
Kyushu University, Japan

T5-P-06 Effects of temperature and template surface on crystallization of syndiotactic polystyrene in cylindrical nanopores
*Meng Li, Hui Wu, Yan Huang and Zhaohui Su**
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T5-P-07 Crystallization in mixture of charged stabilized colloid with PEO by synchrotron small-angle X-ray scattering study
*Jiaxue Liu and Yongfeng Men**
Changchun Inst. Appl. Chem., CAS, China

T5-P-08 Blend modification of fluorene-based benzoxazines with epoxy resins and 2-ethyl-4-mathyl-imidazole
*Junting Liu, Mingqing Wu, Jun Wang, Wenbin Liu**
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T5-P-09 Synthesis and characterization of 2-acrylamido acetic acid functionalized polypropylene
Leilei Qiu, Xiaodong Xu, Xiujuan Chang, Yuanqi Zhu, Lifen Zhang, Jian Zhou*
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- T5-P-10 Thicker, well-ordered arrays of perpendicular polystyrene phase on Indium-Tin-Oxide coated glass**
*Jingchuan Song, Qing Liang, Lingming Xia, and Yumei Gong**
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- T5-P-11 pH- and thermoresponsive Ag/polyelectrolyte hybrid thin films for tunable metal-enhanced fluorescence**
Lingyun Tong, Ning Ma, Fu Tang, Qianling Cui and Lidong Li**
 University of Science and Technology Beijing, China
- T5-P-12 Investigations on microstructures and properties relationships of domestic polyethylene catalyzed by metallocene**
*Dengfei Wang**, Yuxin Gao, Enguang Zou, Guoxing Yang, Xinglong Zhao, Wei Du
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- T5-P-13 Self-assembly of water-soluble conjugated polymers on solid surface for cellular imaging and DNA assay**
Xiaoyu Wang, Fang He, Fu Tang, Ning Ma and Lidong Li**
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- T5-P-14 Effect of long chain branches on the foaming behavior of polypropylene-g-poly(ethylene-co-1-butene) graft copolymers with well-defined molecular structures**
*Lu Wang, Jian Qiu, Dong Wan, Tao Tang**
 Changchun Inst. Appl. Chem., CAS, China
- T5-P-15 Preparation of a dialdehyde starch-chitosan hybrid hydrogel containing Ag nanoparticles by a green in-situ reduction method**
*Bihua Xia, Qianling Cui, and Lidong Li**
 University of Science and Technology Beijing, China
- T5-P-16 Synthesis of carbon nanotubes/fluorine-containing poly(*p*-phenylene benzoxazole) composites with enhanced dielectric constants**
Zhong Xie, Xiaoyang Mao, Yi Chen, Qixin Zhuang, Xiaoyun Liu, Zhewen Han
 East China University of Science and Technology, China
- T5-P-17 Nano-IR observations of interfacial functional groups of multicomponent polymer materials: nanochemical analysis of laminated and blended structures**
*Jiping Ye**, Tadashi Awatani, Alexandre Dazzi, William King, Curt Marcott
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- T5-P-18 Observation of effect of laponite clay in emulsion polymerization of polystyrene latexes by synchrotron small-angle X-ray scattering study**
*Zhiyong Yi, Stephan V. Roth, Rainer Gehrke, and Yongfeng Men**
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- T5-P-19 pH-and glucose-responsive core-shell hybrid nanoparticles with controllable metal-enhanced fluorescence effects**
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