

S. Polymer Materials and Engineering

Session S1: Friday Afternoon, Oct. 21, 2016
Room: 5605

12:45-13:00 Welcome Address

Chair: Guangxian Li

13:00-13:30 S-01 (S- Plenary)
Precisely Functionalized Molecular Nanoparticles Are Unique Elements for Macromolecular Science: From “Nanoatoms” to Giant Molecules

Stephen Z. D. Cheng

1. Department of Polymer Science
2. College of Polymer Science and Polymer Engineering
3. The University of Akron

13:30-14:00 S-02 (S- Plenary)
Shape memory polymers for medical applications using solid phase orientation and micromoulding
P D Coates, P Caton-Rose, B Whiteside, K Nair, D Vgenopoulos, B Thomson, G P Thompson.
University of Bradford

14:00-14:30 S-03 (S- Plenary)
Research Advance in Heat Resistant Polymer Materials
Xigao Jian
Dalian University of Technology

14:30-15:00 S-04 (S- Plenary)
Polymer-Based Aerogels toward High Fire Resistance
Yu-Tao Wang, Ke Shang, Yu-Zhong Wang*
College of Chemistry, National Engineering Laboratory of Eco-Friendly Polymeric Materials (Sichuan), State Key Laboratory of Polymer Materials Engineering, Sichuan University

15:00-15:30 S-05 (S- Plenary)
Solubility of Physical Blowing Agents in Semi-Crystalline Polymers: Consideration of Rigid Amorphous Fraction
Jung Hyub Lee, Hassan Mahmood, Chul B. Park
Mechanical and Industrial Engineering department, University of Toronto

15:30-16:00 S-06 (S- Plenary)
Biomimetic Preparation of Silica Nanoplates and Nanocomposites
Zhibo Li
Qingdao University of Science and Technology

16:00-16:20 Coffee Break

Chair: Guangye Liu

16:20-16:50 S-07 (S- Plenary)
Nanocelluloses for Water Purification
Benjamin S. Hsiao
Stony Brook University

16:50-17:20 S-08 (S- Plenary)
Recycling Waste Polymer Materials by Solid-State Shear Milling Technology
Qi Wang, Shibing Bai, Fasen Sun, Shuangqiao Yang
State Key Laboratory of Polymer Materials Engineering (Sichuan University), Polymer Research Institute of Sichuan University

17:20-17:50 S-09 (S- Plenary)
Multifunctional Structural Elements by Micro Injection Moulding Technology
Gerhard Ziegmann
Technik University Clausthal

17:50-18:20 S-10 (S- Plenary)
Breakthrough Water Purification Technologies based on Nanofibrous Membranes, in the Advanced Fibers and Nanocomposites session
Meifang Zhu
Donghua University

Session S2: Saturday Morning, Oct. 22, 2016
Room: 5605
Topic A (High Performance and Multi-functional Polymer Materials)

Chair: Shugao Zhao

08:30-08:55 S-11 (Keynote)
Multi-Shape Memory Effect of Hemiphasmid Side-Chain Liquid Crystalline Polynorbornene
Rui-Ying Zhao, Er-Qiang Chen
Beijing National Laboratory for Molecular Sciences, Department of Polymer Science and Engineering and Key Laboratory of Polymer Chemistry and Physics of Ministry of Education, College of Chemistry, Center for Soft Matter Science and Engineering, Peking University

08:55-09:20 S-12 (Keynote)
Rubber behavior in contact with engine lubricants
Laina Guo
Materials Department Manager Hutchinson S.A - Research Center

09:20-09:45 S-13 (Keynote)
Hierarchically Cross-linked Hydrogel with Tough, highly Stretchable and Self-healing Properties
Xuming Xie
Tsinghua University

09:45-10:10 S-14 (Keynote)
Microcellular Foams of Cellulose Nanofiber/Polymer Nanocomposite and their Mechanical/Sound Properties
Masahiro Ohshima
Kyoto University

10:10-10:30 Coffee Break

Chair: Meifang Zhu

10:30-10:55 S-15 (Keynote)
Colloidal Systems by Self-assembly of Amphiphilic Block Copolymers for Sustained Drug Delivery
Suming Li
1. Institut Européen des Membranes, Université de Montpellier, 34095 Montpellier, France
2. Institute of High Performance Polymers, Qingdao University of Science and Technology, 53 Zhengzhou Road, Qingdao 266042, China

10:55-11:20 S-16 (Keynote)
Preparation of Poly(ethylene terephthalate) Foams Using Supercritical CO₂ as blowing agent
Ling Zhao, Tao Liu
State Key Laboratory of Chemical Engineering, East China University of Science and Technology, Shanghai200237, P. R. China

11:20-11:35 S-17 (Oral)
The Synthesis and Characterization of Co-Polypropylene Elastomer
Qigu Huang¹, Jing Wang¹, Lei He,¹ Nan Feng¹, Hongming Li^{1,2}, Fan Wang¹, Jinhua Qian³, Jianjun Yi², Kefeng Wang², Wantai Yang¹
1. State Key Laboratory of Chemical Resource and Engineering, Key Laboratory of carbon fiber and functional polymer, Ministry of Education, College of Materials Science and Engineering, Beijing University of Chemical Technology, Beijing 100029, China
2. Polyolefin Laboratory, Petrochemical Research Institute, Petro China, Beijing 102206, China
3. Science and Technology Management Department, China National Petroleum Corporation

11:35-11:50 S-18 (Oral)
Milli/microfluidic assisted fabrication of milli-scale PDVB foam shell by photopolymerization
Lin Zhang
China Academy of Engineering Physics

Session S3: Saturday Afternoon, Oct. 22, 2016
Room: 5605
Topic A : High Performance and Multi-functional Polymer Materials

Chair: Fin Caton-rose

13:00-13:25 S-19 (Keynote)
Self-Assembly and Properties of Colloidal Spheres
Limin Wu, Min Chen, Lifeng Hu, Wen Fan
Department of Materials Science and State Key Laboratory of Molecular Engineering of Polymers, Fudan University

13:25-13:50 S-20 (Keynote)
Special Liquid Crystal Materials and the Preparation Technology of Light Transmittance Adjustable Films
Huai Yang, Lanying Zhang
Department of Materials Science and Engineering, College of Engineering, Peking University

13:50-14:15 S-21 (Keynote)
Better Understanding of Natural Rubber Consistency
Benoit Le Rossignol
R&D Department – Materials Development Director Centre

14:15-14:40 S-22 (Keynote)
Advanced polymer nanocomposites: unrevealing the role of the spatial distribution of graphene and its derivatives
T. Zhai¹, L. Wang¹, GG. Buonocore¹, M. Lavorgna¹, H. Xia², L. Ambrosio³
1. Institute of Polymers, Composites and Biomaterials, National Research Council, P.le Fermi, 1-80055 Portici (NA), Italy
2. State Key Laboratory of Polymer Materials Engineering, Polymer Research Institute of Sichuan University, Chengdu 610065, China
3. Department of Chemical Science and Materials Technology, National Research Council (DSCT-CNR)

14:40-15:05 S-23 (Keynote)
Degradation of polymer materials – from the very beginning
Rui Yang, Jiaohong Zhao, Xuan Liu, Ying Liu, Jian Yu
Department of Chemical Engineering, Tsinghua University

15:05-15:30 S-24 (Keynote)
Making the Edges of 2D Polymers Visible
Yingjie Zhao¹, Zhibo Li² and A. Dieter Schlüter³
1. Qingdao University of Science and Technology, Qingdao
2. Swiss Federal Institute of Technology, ETH Zürich

15:30-15:50 Coffee Break

Chair: Limin Wu

15:50-16:15 S-25 (Keynote)
Fibre Orientation, Dispersion and Length

Reduction in Long Glass Fibre Reinforced Injection Moulding

Phil Caton-Rose¹, Phil Coates¹, Pete Hine²

1. University of Bradford
2. University of Leeds

16: 15-16:40 S-26 (Keynote)

Heparin-like/mimicking Polymer Functionalized Blood Purification Membranes

Changsheng Zhao, Weifeng Zhao, Shudong Sun
College of Polymer Science and Engineering, State Key Laboratory of Polymer Materials Engineering, Sichuan University

16: 40-17:05 S-27 (Keynote)

New Understanding on the Formation of Phase Structure of Thermoplastic Vulcanizate (TPV) During Dynamic Vulcanization

Ming Tian^{1,2}, Hanguang Wu¹, Nanying Ning^{1,2}, Hongchi Tian², Youping Wu^{1,2}, Liqun Zhang^{1,2}

1. Key Laboratory of Beijing City on Preparation and Processing of Novel Polymer Materials, Beijing University of Chemical Technology
2. Key Laboratory of carbon fiber and functional polymers, Ministry of Education, Beijing University of Chemical Technology

17: 05-17:20 S-28 (Oral)

Graphene nanosheets: promising application in improving the thermo-oxidative stability of isotactic polypropylene

Miqiu Kong
Sichuan University

17: 20-17:35 S-29 (Oral)

Cavitation and Plastic Deformation upon Stretching of Poly(ϵ -caprolactone)

Zhiyong Jiang, Yongfeng Men
State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences

17: 35-17:50 S-30 (Oral)

The effect of filler orientation on the crystal structure and dielectric property of P(VDF-HFP) composite film

Huijian Ye, Tiemei Lu, Chunfeng Xu, Zhu Meng, Mingqiang Zhong, Lixin Xu
Zhejiang University of Technology

Session S4: Sunday Morning, Oct. 23, 2016

Room: 5605

Topic A: High Performance and Multi-functional Polymer Materials

Chair: Zhenxiang Xin

08:30-08:55 S-31 (Keynote)

Manipulation Strategies for Cellular Structure of Microcellular Polymer Foams.

Hanxiong Huang
South China University of Technology

08: 55-09:20 S-32 (Keynote)

Thin Polymer Films for Optoelectronics – Impact of Molecular Weight and Casting Solvents on Aggregation Behavior

Christoph Bubeck
Max Planck Institute for Polymer Research

09: 20-09:45 S-33 (Keynote)

Controlling the Nanostructure Morphology of Block Copolymers in Bulk and Thin Films

E. Bhoje Gowd, S. Nagarajan, Deepthi Krishnan
CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST)

09: 45-10:10 S-34 (Keynote)

Study on the self-assembly mechanism of cellulose nanocrystal under flow-field and construction of its functional hybrid materials

Ping Liu, Fuchun Nan, Jianming Zhang
Key Laboratory of Rubber-Plastics, Ministry of Education, Qingdao University of Science & Technology

10: 10-10:30 Coffee Break

Chair: Hanxiong Huang

10:30~10:55 S-35 (Keynote)

Micro-nano Molding Technology of Polymers and the Applications

Qian Li
National Center for International Research of Micro-nano Molding Technology, School of Mechanics and Engineering Science, Zhengzhou University, Zhengzhou, China, 450002.

10:55-11:10 S-36 (Oral)

Solution blow spun high performance co-polyimide nanofibers

Jing Li, Junrong Yu¹, Jing Zhu², Zuming Hu¹, Yan Wang²

1. State Key Laboratory for Modification of Chemical Fibers and Polymer Materials, Donghua University
2. College of Material Science and Engineering, Donghua University, 201620, Shanghai (P. R. China)

11:10-11:25 S-37 (Oral)

In-situ SAXS study on the initiation of cavitation during deformation of annealed precursor iPP film

Bijin Xiong, Yongfeng Men
State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry,

Chinese Academy of Sciences

11:25-11:40 S-38 (Oral)

Supercritical Carbon Dioxide Foaming Behavior in Polystyrene System with Carbonaceous Additives

Pengjian Gong, Shuo Zhai, Minh-Phuong Tran, Chul B. Park, Xia Liao, Guangxian Li
Sichuan University

Session S7: Sunday Morning, Oct. 23, 2016

Room: 4505

Topic A: High Performance and Multi-functional Polymer Materials

Chair: Chengzhong Zong

08:30-08:55 S-39 (Keynote)

Manipulation of nanocarbon materials by using pyrene-functionalized polymers

Yehai Yan, Jian Cui, Shuai Zhao
Qingdao University of Science and Technology

08: 55-09:20 S-40 (Keynote)

Information Integration Framework for Polymer Processing

Furong Gao
The Hong Kong University of Science and Technology

09: 20-09:45 S-41 (Keynote)

Controllable preparation and recognition mechanism of surface protein imprinted magnetic polymer microspheres

Qiuyu Zhang
Northwestern Polytechnical University

09: 45-10:10 S-42 (Keynote)

Light Responsive Shape Memory and Self-Healing Polymer

Hongji Zhang
Jiangnan University

10: 10-10:30 Coffee Break

Chair: Yehai Yan

10: 30-10:45 S-43 (Oral)

A New Method for Producing Gradient Density Sol-gel Materials

Xiao Pang
China Academy of Engineering Physics

10:45-11:00 S-44 (Oral)

The fiber dimensions of Lyocell fiber and ramie fiber in poly(L-lactic acid)-based composites after compounding and injection moulding process

Minmin Yu, Zhao Ge, Huihui Zhang, Huili Shao
State Key Laboratory for Modification of Chemical Fi

bers and Polymer Materials, College of Material Science and Engineering, Donghua University

11:00-11:15 S-45 (Oral)

Efficient Production of High-quality Graphene with a Hyperbranched Polyethylene and Its Modification Effect on UHMWPE

Lixin Xu, Haiping Wang, Huijian Ye
College of Materials Science and Engineering, Zhejiang University of Technology

11:15-11:30 S-46 (Oral)

Copolymerization modification of PPTA with 2,5-furan dicarboxylic acid towards high-performance material with enhanced solubility

Kaiju Luo¹, Yan Wang², Junrong Yu¹, Jing Zhu², Zuming Hu¹
1. State Key Laboratory for Modification of Chemical Fibers and Polymer Materials, Donghua University
2. College of Material Science and Engineering, Donghua University, 201620, Shanghai (P. R. China)

Session S5: Saturday Morning, Oct. 22, 2016

Room: 4505

Topic B : Shape Memory and Self-Healing Polymers

Chair: Jinsong Leng

08:30-08:55 S-47 (Keynote)

Water Sensitive Shape Memory Behavior of Bio-based Fibers

Jinlian Hu¹, Zhu Yong¹, Lv Jing¹, Tan Lin¹, Xiao Xueliang^{1,2}

1. Institute of Textiles and Clothing, the Hong Kong Polytechnic University, Hung Hom, Hong Kong;
2. School of Textiles and Clothing, Jiangnan University

08: 55-09:20 S-48 (Keynote)

Mingqiu Zhang
Sun Yat-sen University

09: 20-09:45 S-49 (Keynote)

Multifunctional hydrogels ¾ from high mechanical performances, shape memory to manipulation of stem cell differentiation

Wenguang Liu
Tianjin University

09: 45-10:10 S-50 (Keynote)

Progress in Biodegradable Shape Memory Polymers and Their Biomedical Applications

Hongmei Chen, Lin Wang, Tao Gong, Shaobing Zhou
Key Laboratory of Advanced Technologies of Materials, Ministry of Education, School of Materials Science and Engineering, Southwest Jiaotong

University.

10: 10-10:30 Coffee Break

Chair: Zhibo Li

10: 30-10:55 S-51 (Keynote)

Shape memory polymer network with thermally distinct elasticity and plasticity

Qian Zhao

State Key Laboratory of Chemical Engineering,
College of Chemical and Biological Engineering,
Zhejiang University

10:55-11:20 S-52 (Keynote)

Designing Tunable Multiple-Shape Memory Polymer with Thermoplastic Elastomer Blends

Jiachun Feng

Fudan University

11:20-11:35 S-53 (Oral)

Magnetic field actuated multiple shape memory composite nanofibers

Fenghua Zhang, Jinsong Leng

Centre for Composite Materials and Structures,
Harbin Institute of Technology (HIT)

11:35-11:50 S-54 (Oral)

Self-Healable Conductive Shape Memory Polymer Composites

Hongsheng Luo, Xingdong Zhou, Huaquan Wang,

Guobin Yi, Wenjin Ji, Xihong Zu, Jun Peng

Faculty of Chemical Engineering and Light Industry,
Guangdong University of Technology

Session S6: Saturday Afternoon, Oct. 22, 2016 Room: 4505

Topic B: Shape Memory and Self-Healing Polymers

Chair: Wenguang Liu

13:00-13:25 S-55 (Keynote)

The Relationship Between the Structure and Property of Multi-phase/Multi-component Materials with Shape Memory Property

Xia Dong, Miaoming Huang, Xinran Liu, Dujin Wang
Beijing National Laboratory for Molecular Sciences,
CAS Key Laboratory of Engineering Plastics, Institute
of Chemistry, Chinese Academy of Sciences

13:25-13:50 S-56 (Keynote)

Shape memory vitrimers

Yan Ji

Department of Chemistry, Tsinghua University

13:50-14:15 S-57 (Keynote)

Shape memory polymers and composite structures: from materials to applications

Jinsong Leng¹, Yanju Liu²

1. Centre for Composite Materials and Structures,
Harbin Institute of Technology (HIT), P.O. Box 3011,
No. 2 YiKuang Street, Harbin 150080, People's
Republic of China

2. Department of Astronautical Science and
Mechanics, Harbin Institute of Technology (HIT), P.O.
Box 301, No. 92 West Dazhi Street, Harbin 150001,
People's Republic of China

14:15-14:40 S-58 (Keynote)

Bio-inspired design of functional hydrogels: from 2D surfaces to 3D networks

Mingjie Liu

School of Chemistry and Environment, Beihang
University, Beijing

14:40-15:05 S-59 (Keynote)

Ultrastretchable and Self-Healing Hydrogels Based on Double Dynamic Crosslinking of Acylhydrazone Bonds and Triblock Copolymer Micelles

Lanyin Zhou, Peng Wang, Guohua Deng

School of Chemistry and Chemical Engineering,
South China University of Technology

15:05-15:20 S-60 (Oral)

Processing tough physical hydrogels

Zi Liang Wu, Qiang Zheng

Key Laboratory of Macromolecular Synthesis and Functionalization, Department of Polymer Science and Engineering, Zhejiang University

15:20-15:50 Coffee Break

Chair: Jinlian Hu

15:50-16:05 S-61 (Keynote)

RAFT Polymers for Bio-applications

Xiaojuan Hao

CSIRO Manufacturing

16:05-16:20 S-62 (Oral)

Polymer-based Composite Thermal Interface Materials

Liangliang Li

School of Materials Science and Engineering,
Tsinghua University

16:20-16:35 S-63 (Oral)

Study on the foam properties of poly (butylene succinate) ionomers

Shuidong Zhang, Peng Wang, Yue Xu, Xiangfang Peng

College of Mechanical and Automotive, South China
University of Technology

16:35-16:50 S-64 (Oral)

Polybutadiene-Poly(styrene-co-4-vinylpyridine)-Ba

sed Supra- molecular Shape Memory Elastomers Using Metal Coordination Interactions

Fang Xie¹, R. A. Weiss², Jinsong Leng³, Yanju Liu¹

1. Department of Astronautical Science and Mechanics, Harbin Institute of Technology
2. Department of Polymer Engineering, The University of Akron
3. Composite Materials and Structures, Harbin Institute of Technology

16:50-17:05 S-65 (Oral)

Influence of Disulfide Bond Content on the Healing Ability of Self-Healing Polyurethanes

Yurun Xu, Dajun Chen

State Key Laboratory for Modification of Chemical Fibers and Polymer Materials, College of Materials Science and Engineering, Donghua University

17:05-17:20 S-66 (Oral)

Thermal Aging Effects on Fire Performance of the Cross-linked Polyethylene Insulated Cable

Jinmei Li¹, Jiaqing Zhang², Qiang Li³, Zhongjun Shu³

1. University of Science and Technology Beijing
2. State Grid Anhui Electric Power Research Institute
3. Chinese People's Armed Police Academy

17:20-17:35 S-67 (Oral)

Controllable Shape Memory Behavior Actuated by Selective Stimuli

Wenbing Li¹, Yanju Liu², Jinsong Leng¹

1. Centre for Composite Materials and Structures, Harbin Institute of Technology (HIT)
2. YiKuang Street, PO Box 3011, Harbin 150080, PR China.

17:35-17:50 S-68 (Oral)

Highly efficient flame retardant polyurethane foam with alginate/clay aerogel coating

Hongbing Chen¹, Peng Shen¹, Mingjun Chen², Haibo Zhao³

1. Institute of Nuclear Physics and Chemistry, China Academy of Engineering Physics
2. School of Science (Sichuan), Xihua University
3. Research Center of Laser Fusion, China Academy of Engineering Physics

17:50-18:05 S-69(Oral)

Thermosetting epoxy resin /thermoplastic poly(ϵ -caprolactone) system with combined shape memory and self-healing properties

Yongtao Yao, Jinsong Leng

National Key Laboratory of Science and Technology on Advanced Composites in Special Environments, Harbin Institute of Technology

Poster

S-P01

Improved Thermal and Mechanical Properties through Controlled Molecular Network in Multi-functional Epoxy Resins

Chengjun Liu¹, Miqui Kong¹, Yajiang Huang², Guangxian Li¹

1. School of Aeronautics and Astronautics, Sichuan University
2. College of Polymer Science and Engineering, State Key Laboratory of Polymer Materials Engineering of China, Sichuan University

S-P02

Role of aging time in photo-oxidative degradation of polyolefins subjected to tensile stress

Qiang Liu¹, Heng Yang¹, Miqui Kong², Yajiang Huang¹

1. College of Polymer Science and Engineering, State Key Laboratory of Polymer Materials Engineering of China, Sichuan University
2. School of Aeronautics and Astronautics, Sichuan University

S-P03

Elongation Thinning and Morphology Deformation of Nanoparticle-filled Immiscible Blends in Elongational Flow

Miqui Kong¹, Yajiang Huang², Qi Yang², Guangxian Li²

1. School of Aeronautics and Astronautics, Sichuan University
2. College of polymer science and engineering, State key laboratory of polymer materials engineering of China, Sichuan University

S-P04

Synergistic toughening of high-performance trifunctional epoxy resin by poly(ether sulfone) and silica nanoparticles

Xin Xu, Bing Tang, Miqui Kong, Guangling Chen, Qi Yang, Yajiang Huang

College of polymer science and engineering, Sichuan University

S-P05

Cellulose Triacetate Aerogels with Ultralow Densities

Yu Fang, Xuan Luo, Shufan Chen

China Academy of Engineering Physics

S-P06

A New Strategy for Synthesis of Fluorinated Polyurethanes Based on the Xanthate-Mediated Living/Controlled Radical Copolymerization of Chlorotrifluoroethylene and Butyl Vinyl Ether

Pucheng Wang¹, Ruke Bai²

1. Institute of Nuclear Physics and Chemistry, China Academy of Engineering Physics

2. CAS Key Laboratory of Soft Matter Chemistry, Department of Polymer Science and Engineering, University of Science and Technology of China

S-P07

Synthesis of Donor-Acceptor Paired Acrylic Copolymers

Haibin Hu¹, Hai Deng¹

1. Department of Macromolecular Science, Fudan University
2. State Key Laboratory of Molecular Engineering of Polymers, Fudan University

S-P08

Novel microcellular polyurethane foam prepared by supercritical carbon dioxide

Junsong Li¹, Xia Liao¹, Qi Yang¹, Guangxian Li¹, Qianping Ran²

1. College of Polymer Science and Engineering, State Key Laboratory of Polymer Materials Engineering, Sichuan University, Chengdu
2. State Key Laboratory of High Performance Civil Engineering Materials, Jiangsu Bote New Materials Co., Ltd., Nanjing

S-P09

Fabrication of high Z metals doped low density polymer foam shells

Xuan Luo, Yu Fang, Shufan Chen, Ruizhuang Yang, Qinjun Zhang, Chuanqun Huang, Ting Shao
Research Center of Laser Fusion, China Academy of Engineering Physics

S-P10

The Study of Blending Modification of PEBAX/BaSO₄ for Invasive Medical Devices

Zhaomin Li¹, Shu Zhu¹, Muhuo Yu¹

1. Key Laboratory of Shanghai City for lightweight composites, State Key Laboratory for Modification of Chemical Fibers and Polymer Materials, Donghua University
2. Shanghai Microport Medical (Group) Co, Ltd

S-P11

Study on the effects of poly(ethylene glycol) segment on physical and chemical properties of poly(ether ester) elastomers

Qiushu Xu, Lian Tang, Chaosheng Wang, Biao Wang, Huaping Wang
State Key Laboratory for Modification of Chemical Fibers and Polymer Materials, College of Materials Science and Engineering, Donghua University

S-P12

Thermal-infrared reflective properties of perylene derivatives

Jianliang Xie¹, Wenle Liu¹, Yunfeng Liu¹, Bo Peng¹, Shuai Jian¹, Longjiang Deng¹

1. State Key Laboratory of Electronic Thin Films and Integrated Devices, University of Electronic Science and Technology of China

2. National Engineering Research Center of Electromagnetic Radiation Control¹ Materials, University of Electronic Science and Technology of China

S-P13

Construction of photonic crystal microcapsules with tunable density

Chun Yang¹, Xuan Luo¹, Ting Shao¹, Xiaodong Jiang¹, Linhong Cao²

1. Research Center of Laser Fusion, China Academy of Engineering Physics
2. Southwest University of science and Technology

S-P14

Dual-responsive, robust and recyclable hydrogels for environmental pollution remediation

Man Zhang, Changsheng Zhao
Sichuan University

S-P15

Influence of [6, 6]-phenyl-C61-butyric acid isopropyl ester (PCBM) on glass transition temperature (T_g) of photorefractive composite

Baili Chen, Shufan Chen, Xuan Luo, Yu Fang, Qingjun Zhuang, Weidong Wu
Research Center of Laser Fusion, China Academy of Engineering Physics

S-P16

Study on the dielectric properties of epoxy/anhydride system during eleven months storing

Chunmiao Han, Kang Peng, Liu Yang, Zhibin Zeng
Institute of Electronic Engineering, China Academy of Engineering Physics,

S-P17

Polyethersulfone/ poly (sodium acrylate) hybrid particles for the removal of environmental toxins

Zhenqiang Shi
College of Polymer Science and Engineering, State Key Laboratory of Polymer Materials Engineering, Sichuan University

S-P18

An antireflection method for fluorinated ethylene propylene (FEP) film which may be used as the short pulse laser debris shields

Shufan Chen, Chuanqun Huang, Xuan Luo, Yu Fang, Baili Chen, Weidong Wu
Research Center of Laser Fusion, China Academy of Engineering Physics

S-P19

The effect of quartz/epoxy composite charred on electricity properties under outer heating source

Yong qiang Zhang, Li Zhang, Chun yan Wang, Fu li Tan
Institute of Fluid Physics, CAEP

S-P20

The Synthesis, Structure and Properties of Terpolymer of Ethylene/Propylene/ ω -bromo- α -olefins Catalyzed by Titanium Complex

Jing Wang, Lei He, Runcong Zhang, Qigu Huang, Wantai Yang
Beijing University of Chemical Technology

S-P21

Effect of Long-Chain Branching Structure on the Cell Morphology of Poly(lactide acid) Foamed by Supercritical Carbon Dioxide

Shaojie Li¹, Guangjian He², Xia Liao¹, Chul B. Park³, Qi Yang¹, Guangxian Li¹

1. State Key Laboratory of Polymer Materials Engineering of China, College of polymer science and engineering, Sichuan University
2. Key Laboratory of Polymer Processing Engineering, National Engineering Research of Novel Equipment for Polymer Processing, South China University of Technology
3. University of Toronto

S-P22

Enhancing electrical conductivity of rubber composites by constructing interconnected network of self-assembled graphene with latex mixing

Kaiye Zhang, Yanhu Zhan, Hesheng Xia
Sichuan University

S-P23

Kinetics of Nucleation and Growth of Form II to I Polymorphic Transition in Polybutene-1 as Revealed by Stepwise Annealing

Yongna Qiao, Yongfeng Men
State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, University of Chinese Academy of Sciences

S-P24

Synthesis, functionalization and application of hyperbranched polypropylene oxide(PPOX)

Guangcheng Shan¹, Shishan Wu¹, Qianping Ran²
1. School of Chemistry and Chemical Engineering, Nanjing University;
2. State Key Laboratory of High Performance Civil Engineering Materials, Jiangsu Sobute New Material Co. Ltd.

S-P25

Electric Heating Behavior of Flexible Graphene/Natural Rubber Conductor*

Yanhu Zhan¹, Yanyan Meng¹, Hesheng Xia²
1. School of Materials Science and Engineering, Liaocheng University
2. State Key Laboratory of Polymer Materials Engineering, Polymer Research Institute, Sichuan University

S-P26

Hyperbranched azobenzene: A new dye intermediate with circle structure and polyfunctional groups

Lei Xu, Xizhi Jiang, Yongfu Zhao, Liru Xia
Institute of Agricultural facilities and equipment, Jiangsu Academy of Agricultural Sciences