Poster Session (Final Version: Sep 09, 2024)

Thursday, September 18, 2024

~12:00 Display the posters 13:00-13:25 Poster Presentation I. (odd number: P1-01, 03, 05, ...) 13:25-13:50 Poster Presentation II. (even number: P1-02, 04, 06, ...) ~18:00 Remove the posters

P1-01 Spherulite morphology of spherulites of polylactic acid stereocomplex. *Go Matsuba (Yamagata University)*

P1-02 Polymer Crystallization Control by Pseudo-Polyrotaxane Nanosheets. Cong Liu (National Institute for Materials Science)

P1-03 Crystal Structure of Atactic and Isotactic α, α-disubstituted poly-3-hydroxybutyrate: A Chemically Recyclable Poly(hydroxyalkanoate) with Tacticity-Independent Crystallinity. *Miriam Scoti (Università di Napoli Federico II)*

P1-04 Crystallization behavior in side sealing process for plastic bag production *Kogen Horikawa (Kochi Prefectural Industrial Technology Center)*

<u>P1-05</u> Monte-Carlo simulation of crystal structures of isotactic polypropylene. *Takumi Takabe (Yamaguchi University)*

P1-06 Effect of Crystalline Orientation on Photodegradation and Fragmentation of Isotactic Polypropylene. *Yingjun An (Kyushu University)*

<u>P1-07</u> Morphology and Crystallization Behavior of the Segmented Polyether Ester Block Copolymer PCCD/PTHF. *Mouna Hamid* (KU Leuven)

P1-08 Influence of Water Pressure on Structure Decomposition of Polycaprolactone Thin Films in Seawater Immersion Treatments. Sono Sasaki (Kyoto Institute of Technology)

P1-09 Effect of Initial Crystallization Time on Low Temperature βα Growth Transition of Isotactic Polypropylene During Stepwise Crystallization. *Ziyuan Zhou (Zhengzhou University)*

P1-10 Helical Arrangements within the α-Form Crystal of Isotactic Polypropylene. *Kouji Yamada (Toyobo Co., Ltd.)*

<u>P1-11</u> Effects of branched molecule addition on the crystallization and high-order structure of Poly(L-lactic acid).

Norihiko Sakaguchi (The University of Shiga Prefecture)

<u>P1-12</u> Spherulite size and fracture behavior of poly(oxymethylene) containing branched molecules. *Shun Sugawa (The University of Shiga Prefecture)*

<u>P1-13</u> Effect of humidity on crystallization morphology of polyethylene oxide in ultrathin films. *Hailong Zou (Zhengzhou University).*

P1-14 Nanoscale mechanisms of strain-induced crystallization of isoprene rubbers revealed by electron diffraction mapping. *Tomohiro Miyata (Tohoku University)*

<u>P1-15</u> Influence of Tearing Rate on Hieratical Structure Change of Poly(butylene succinate) / Poly(butylene succinate-co-butylene adipate) Blend Films during Tearing. *Keito Shimakawa (Kyoto Institute of Technology)*

<u>P1-16</u> Effect of dewetting on isothermal crystallization kinetics from the melt of marine-degradable linear polyesters in thin films. *Ryu Miyajima (Kyoto Institute of Technology)*

<u>P1-17</u> Wall Slip Behaviors of Crystallized Polypropylene and its Blends during Oscillatory Shear. *Xinyang Zhao (Shanghai Jiao Tong University)*

P1-18 Effect of shear rate on flow-induced crystallization of high-density polyethylene evaluated by rheo-Raman spectroscopy. *Naoki Uenishi (The University of Shiga Prefecture)*

P1-19 The size of the critical nucleus of polymer crystals does not depend on supersaturation. *Yang Liu (Tsinghua university)*

P1-20 The Isothermal Melting Kinetics of Ultrahigh Molecular Weight Polyethylene Crystals. *Binghua Wang (Zhengzhou University)*

P1-21 Probing into the Selective Nucleation Mechanism of Poly (methyl methacrylate) Modified Cellulose Nanocrystals in Enantiomeric Poly(lactic acid)s. *Jianming Zhang (Qingdao University of Science and Technology)*

P1-22 Solidification Temperature and Crystallization Behavior of Short Fiber-Reinforced Polypropylene by Flash Differential Scanning Calorimetry. *Qing Jiang (Yamagata University)*

P1-23 Effect of carbon fiber-MWCNT multiscale reinforcement on the Structure and Physical properties of the PEEK composite. *Takumi Okihara (Okayama University)*

<u>P1-24</u> The Effect of Long Alkyl Side Chains on the Response Temperature and Speed of Shape Memory Gels. *Daiki Hinata (Yamagata University)*

P1-25 Preparation of Poly(lactic acid) Microspheres with Controllable content of Stereocomplex Crystals Based on Microfluidics.

Junfeng Liu (Institute of Zhejiang University – Quzhou)

P1-26 Temperature-Dependent Triple Crystal Polymorphism and Crystal Structure-Property Relationship of Poly(hexamethylene terephthalate). *Ying Zheng (Institute of Zhejiang University – Quzhou)*

<u>P1-27</u> Investigation on the Crystallization and Mechanical Properties of Polyvinyl Alcohol Nanocomposite with Cellulose Nanofiber. *Farjana Prova (Hiroshima University)*

P1-28 Molecular Design of Efficient Polymeric Nucleating Agent. *Xuewei Wei (Tsinghua University)*

P1-29 Avoiding kinetic trapping in self-assembly of DNA-functionalized gold nanoparticles by using enthalpymediated strategy. *Yunhan Zhang (University of Science and Technology of China)*

<u>P1-30</u> Molecular simulation for the effect of interchain interaction on polymer crystallization upon step-wise cooling from the melts. Chidapha Kusinram (Suranaree University of Technology)

P1-31 Effect of chain conformation on nucleation of polymer crystallization. *Hiroshi Yokota (Kyoto University)*

P1-32 3D Morphologies of Semicrystalline Polymers Revealed by Optical Tomography *Goran Ungar (Xi'an Jiatong University)*

<u>P1-33</u> Structural analysis of crystal lattice in the blend of syndiotactic polystyrene and modified polyphenylene ether. Satoshi Kusano (Yamagata University)

<u>P1-34</u> Effect of Cellulose Nanofiber on the Crystal Structure of Poly (vinylidene fluoride)/Organoclay Composites Masato Hoshi (Yamagata University).

Thursday, September 19, 2024

 $\sim 12:00 \text{ Display the posters} \\ 13:00-13:25 \text{ Poster Presentation III.} \quad (odd number: P2-01, 03, 05, ...) \\ 13:25-13:50 \text{ Poster Presentation IV.} \quad (even number: P2-02, 04, 06, ...) \\ \sim 18:00 \text{ Remove the posters} \\ \end{cases}$

P2-01 Secondary crystallization of low isotacticity polypropylene. *Yoshitomo Furushima (Toray Research Center, Inc.)*

P2-02 In-situ Monitoring and Tuning Multilayer Stacking of Polymer Lamellar Crystals in Solution with Aggregation-Induced Emission. Jun Xu (Tsinghua University) P2-03 Brill Transition and Crystallization Morphology Evolution of Polyamide 1012 and Its copolymers. *Xia Dong (Beijing National Laboratory for Molecular Science)*

P2-04 Origin of melt memory in polymers with weak intermolecular interactions. *Leire Sangroniz (University of the Basque Country)*

P2-05 Continuous fabrication of supertoughened poly(lactic acid) filaments and investigation on the toughening mechanism.

Shanshan Xu (Zhengzhou University)

P2-06 Backbone Conformation of Hypo-crystal Poly(methyl methacrylate) Crystallized by Rapid Thermal Quenching Method with Entropy Diluents. Van Thanh Vu (Hanyang University)

P2-07 Discovering new crystallization modes in random copolymers. *Ricardo Perez (University of the Basque Country)*

P2-08 Crystallization and Degradation Behavior of Poly (4-Hydroxybutyrate)/ Sorbitol and Its Application in Bone Regeneration. Zhihua Gan (Beijing University of Chemical Technology)

P2-09 Reactive Blending of PGA and Flexible Polyesters Using Environmentally Friendly and Cost-Effective Biodegradable Chain Extenders. *Ni Jiang (Beijing University of Chemical Technology)*

P2-10 Deformation Behaviors of High-Density Polyethylene Analyzed by Nanodiffraction Imaging. Shusuke Kanomi (Tohoku University)

P2-11 Evaluation of Staining Effect on the Morphology and Crystal Structure of Polyethylene Crystals. Kai Chen (Tohoku University)

P2-12 Vibration-damping properties of conventional polymers blended with main-chain liquid crystalline polymers. *Keigo Sawada (The University of Shiga Prefecture)*

P2-13 Molecular dynamics simulation of the nucleosome structural change process. Takumi Hagiwara (Kyushu University)

P2-14 In situ real-time AFM of chain movements at the topmost surface of polymer films. Jiro Kumaki (Yamagata University)

P2-15 "Printing" on Polymer Single Crystals. Tianyu Wu (China University of Petroleum (Beijing))

P2-16 Application of fast scanning calorimetry for investigation of polymer melting and crystallization during additive manufacturing.

Evgeny Zhuravlev (University of Rostock)

P2-17 Study on Ultrahigh Strength and Toughness of Polylactide with Small Amount of Elastomer via Controlling Crystal Morphology by Pressure-induced Flow Processing. *Wanyu Wang (University of Science and Technology of China)*

P2-18 Analysis of failure in high-density polyethylene doped with aggregation-induced emission dye. *Yusuke Momoi (Kanazawa University)*

<u>P2-19</u> Crystallization of a double crystallizable PBT/PEG multi-block copolymer at high supercooling studied via fast scanning calorimetry and synchrotron X-ray scattering. *Ilya Mongilyov (KU Leuven)*

P2-20 Non-Isothermal Crystallization Kinetics of Polypropylene. Shuhei Yasuda (Mazda Motor Corporation)

P2-21 Self-nucleation Induced Non-linear Growth of Polymer Spherulites. *Yaguang Lu (Zhengzhou University)*

P2-22 Evaluation of Crystallinity and Gas Barrier Properties of P(MMA-co-SA) Gels. *Koh Yoshida (Yamagata University)*

<u>P2-23</u> Development of A Polymer Gel with High Adhesion to Polytetrafluoroethylene. *Toshiya Yamasaki (Yamagata University)*

P2-24 Crystal Structure and Microstructure Effects on Gas Transport Behavior of Poly(ether-b-amide) Multiblock Copolymers. Sinan Feng (Kyushu University)

P2-25 Investigating the Impact of Carbonyl Group Incorporation on High-Density Polyethylene Semicrystalline Properties. Mohd Afiq Bin Anuar (Martin-Luther-Universität Halle-Wittenberg)

P2-26 Beta-alpha recrystallization mechanism of isotactic polypropylene. Dong Lyu (Changchun Institute of Applied Chemistry, CAS)

P2-27 Semicrystalline morphology, intra-crystalline diffusion and mechanical modulus of selected aliphatic polyesters.

Qiang Yu (Martin-Luther-University Halle-Wittenberg)

P2-28 Structural Interpretation of Strain-Hardening Behavior of Semi-Crystalline Polymer Solids Sanshiro Kimura (The University of Shiga Prefecture)

P2-29 Nanoporous polymers fabricated via solvent-induced crystallization of poly(ether sulfone) Sadaki Samitsu (National Institute for Materials Science)

P2-30 Molecular Dynamics Simulations of Polymer crystallization: the Role of Chain Entanglement.

Fan Peng (University of Science and Technology of China)

<u>**P2-31**</u> Monte Carlo simulation of polymer crystallization with the effect of entanglement. *Jinxu Yan (Nanjing University)*

P2-32 Controlled phase separation of amphiphilic-type random copolymers with long-branched crystalline side chains.

Kaito Yui (Yamagata University)

P2-33 Structural analysis of two species modified ramie using synchrotron radiation. *Mitsuhiro Hirata (Yamagata Research Institute of Technology)*

P2-34 Multiscale Visco-Elasto-Plasticity Modeling Considering Spherulite Structure of Crystalline Polymers. *Yoshiteru Aoyagi (Tohoku University)*

<u>**P2-35**</u> Entropy-Driven Preordering Assists Nucleation in Polyethylene. *Renkuan Cao (University of Science and Technology of China)*

Bold&Underline: Candidates of Student's Award