

**The 11th SPSJ International Polymer Conference
(IPC 2016)**

Fukuoka, Japan

December 13 – 16, 2016

PROGRAM



The Society of Polymer Science, Japan

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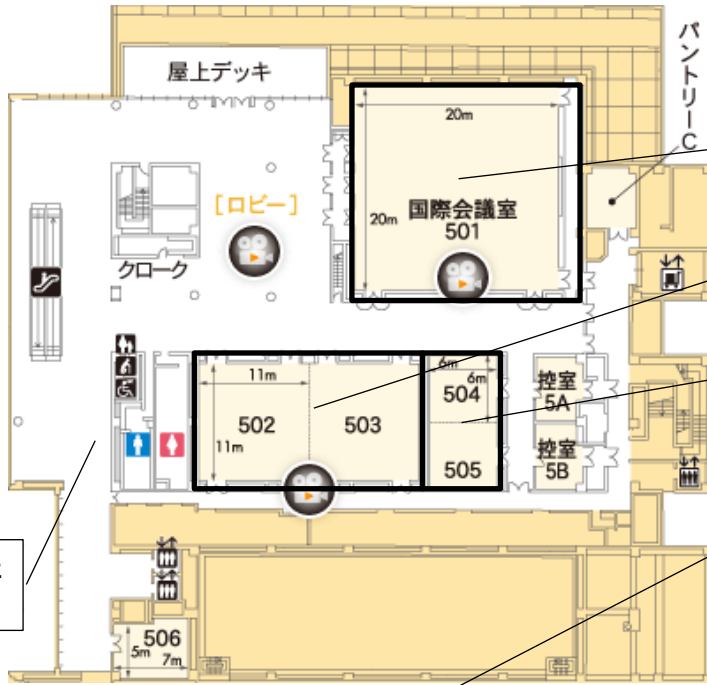
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MIYATAKE, Kenji

The 11th SPSJ International Polymer Conference (IPC 2016)
GENERAL SCHEDULE

| | | day & date | Tuesday Dec.13 | Wednesday December 14 | | | Thursday December 15 | | | Friday December 16 | | | |
|----------------------------------|---------|------------|-------------------------------|--------------------------|-----------------------------------|-------------------|-------------------------|-------------------|--------------------|------------------------|-------------------|-------------------|--|
| | | Rooms | afternoon | morning | | afternoon | morning | | afternoon | morning | | afternoon | |
| Regist- ration | | | 13:00 Registration | | | | | | | | | | |
| | | | | 8:30 | Registration | | | | | | 12:00 | | |
| Session Hours | | | | 9:00-12:40 | 12:30-14:00 | 14:00-18:00 | 9:00-12:40 | 12:30-14:00 | 14:00-17:20 | 9:00-12:40 | 12:30-14:00 | 14:00-17:20 | |
| Program | Plenary | MainHall | 15:00 Plenary Lecture | | | | | | | | | | |
| | Oral | Room A | | S-2 | — | S-2 | S-2 | — | S-2 | S-2 | — | S-2 | |
| | | Room B | | S-1 | — | S-1 | S-1 | — | S-1 | S-1 | | | |
| | | Room C | | | | | | S-7 | — | S-7 | S-7 | | |
| | | Room D | | S-6 | — | S-6 | S-6 | — | S-3 | | | | |
| | | Room E | | S-5 | — | S-5 | S-5 | — | S-5 | S-5 | | | |
| | | Room F | | S-4 | — | S-4 | S-4 | — | S-4 | S-4 | — | S-4 | |
| | | Room G | | S-3 | — | S-3 | S-3 | — | S-3 | S-3 | — | S-3 | |
| | Poster | | | Mounting the Poster | Poster Session | Poster Display | Mounting the Poster | Poster Session | Poster Display | Mounting the Poster | Poster Session | Poster Display | |
| Room P | | | S4, S7, G2, G5 | | | S2, S3, S6, G6 | | | S1, S5, G1, G3, G4 | | | | |
| Social Events Satellite Event | | | 18:30 Welcome Reception | | 12:30-13:30 Meet the Editor | | | | 18:00 Banquet | | | | |

**IPC2016
Floor Plan**

5F



Room A (S-2)

Room B (S-1)

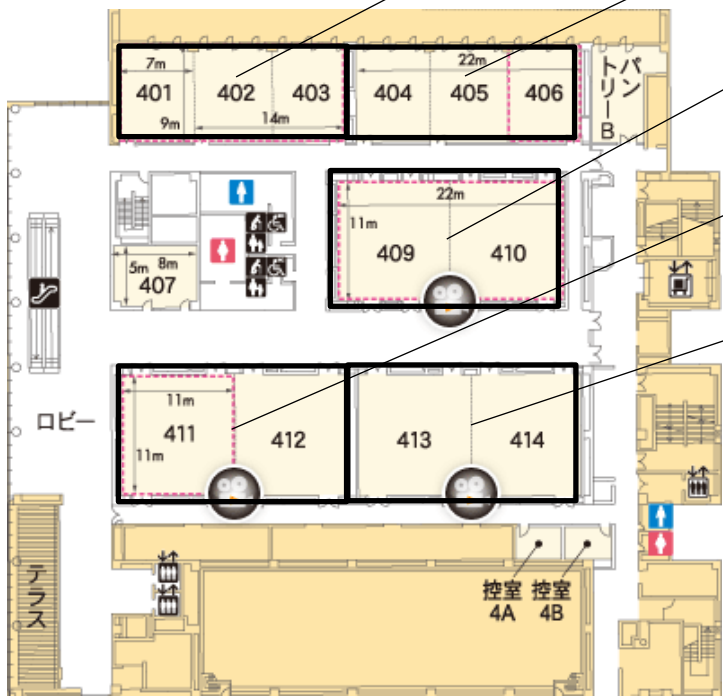
Main Office

Room C (S-7, S-4)

Room D (S-6, S-3)

**Registration Desk
Dec. 14-16**

4F



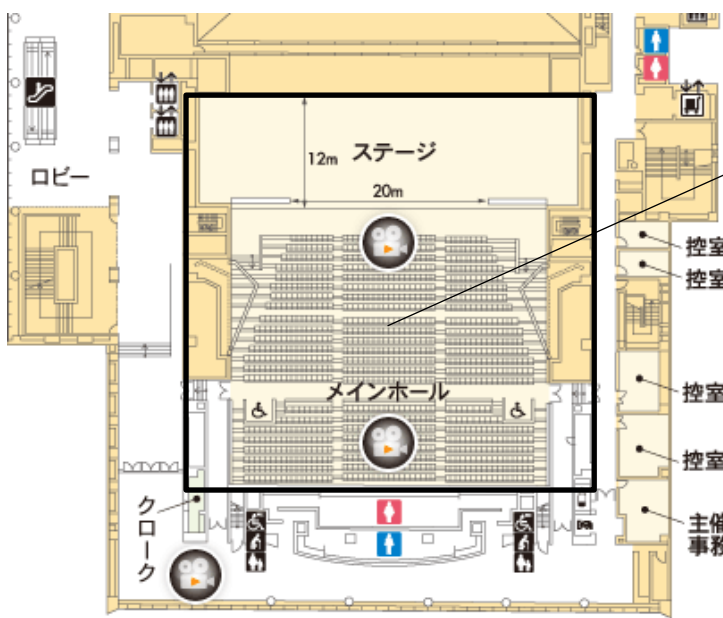
Room E (S-5)

Room F (S-4)

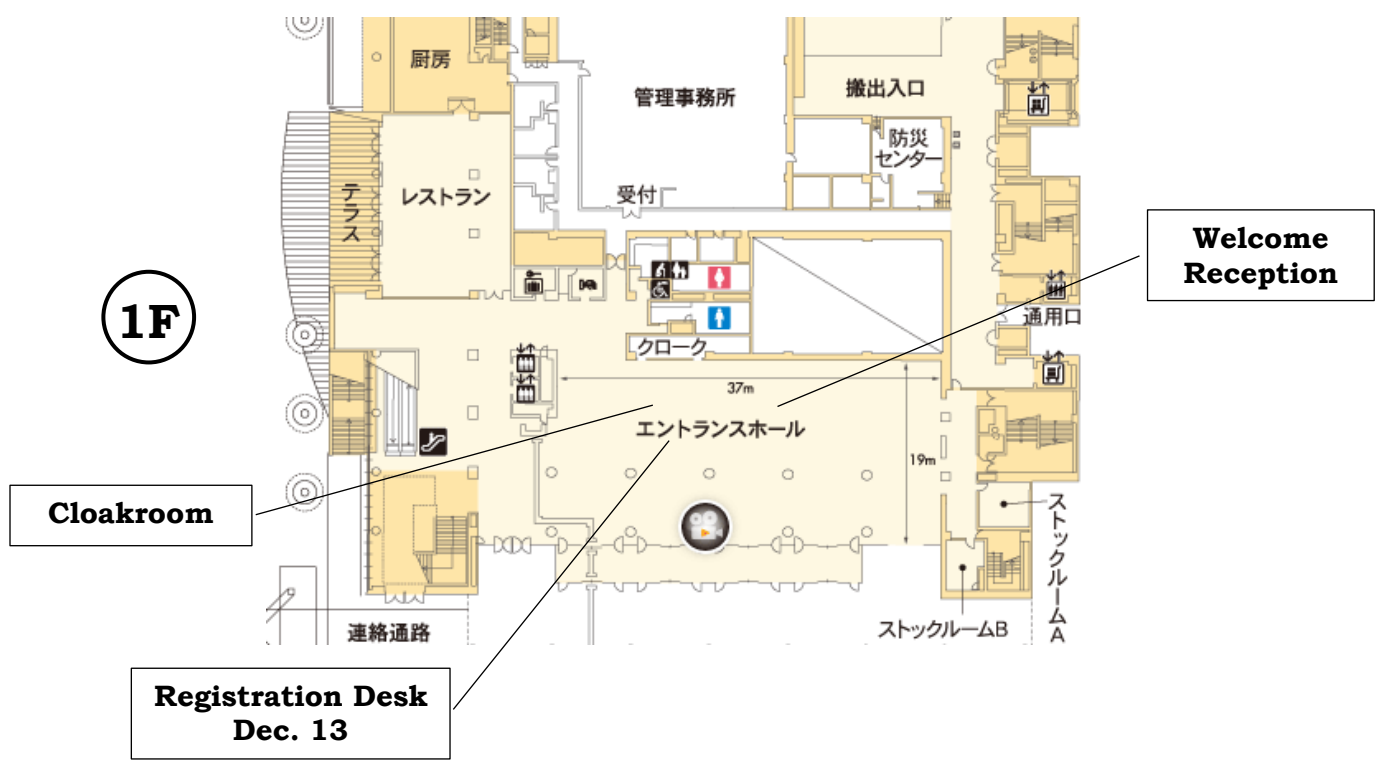
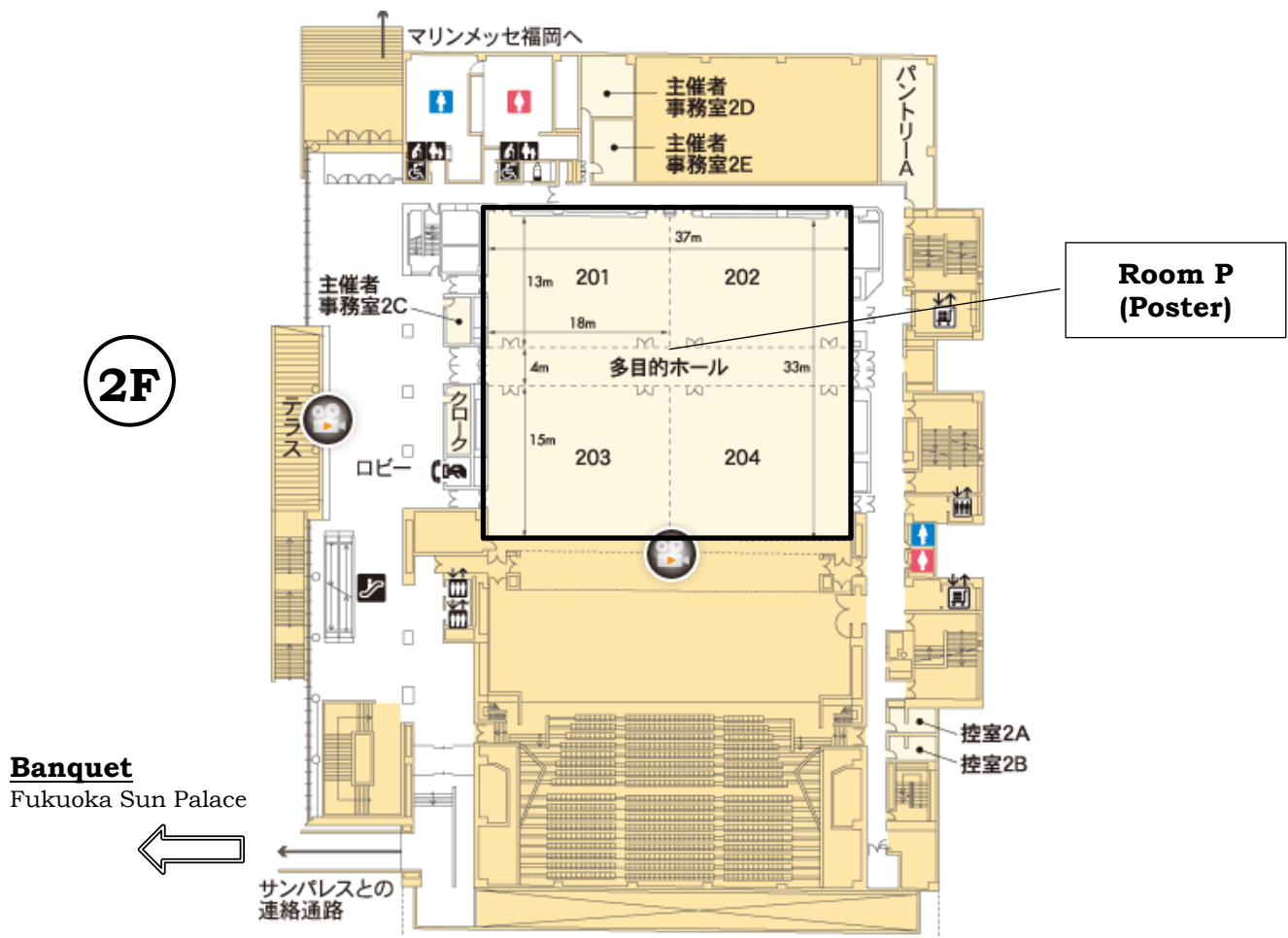
Room G (S-3)

Langmuir Meet The Editor

3F



Plenary Lecture



General Information

Name Badge All the participants are requested to wear the IPC2016 Name Badge during the Conference.

Language The official language of the Conference is English. No simultaneous translation will be available.

Registration The Registration and the Hospitality Desks are open from Tuesday, December 13 to Friday, December 16.

| | |
|------------------------|---------------|
| Tuesday, December 13 | 13:00 – 17:00 |
| Wednesday, December 14 | 8:30 – 17:00 |
| Thursday, December 15 | 8:30 – 17:00 |
| Friday, December 16 | 8:30 – 12:00 |

In addition to information on the Conference itself, various services including lost and found will be available.

Currency Exchange Banks authorized for handling major currencies are found in the downtown area of Fukuoka, open from 9:00 to 15:00 on weekdays and closed on Saturdays and Sundays. Major currencies can also be exchanged at major hotels.

Messages A message board is set at the side of the Registration Desk.

Internet / Wireless internet access is possible in the venue.

E-mail Major hotel rooms are equipped with broad-band LAN and/or wireless internet.

| Social Program | Event | Time/Day/Date | Place |
|-----------------------|-------------------|-------------------------------------------|---------------------------------------------------------------|
| | Welcome Reception | 18:30 – 20:00, Tuesday, December 13 | Entrance Hal, 1F, Fukuoka International Congress Center |
| | Banquet | 18:00 – 20:00 Thursday, December 15 | “Palace Room”, 2F, Fukuoka Sun Palace Hotel |

| Satellite Meeting | Event | Time/Day/Date | Place |
|--------------------------|--------------------------|---------------------------|------------------------------------------|
| | Langmuir Meet | 12:45-13:45 | Room G, 4F, 413+414, |
| | The Editor (Luncheon) | Wednesday, December 14 | Fukuoka International Congress Center |

Oral Presentation

Presentation time

The allotted time for oral presentations (Invited or Contributed) is as follows:

| | Presentation | Discussion | Total |
|------------------------|--------------|------------|--------|
| Invited Lecture | 35 min | 5 min | 40 min |
| Oral Contributed Paper | 15 min | 5 min | 20 min |

Speakers

LCD projectors are available in each session room. Speakers are kindly requested to arrive on the reception desk of each session room 30 minutes before their presentation at the latest.

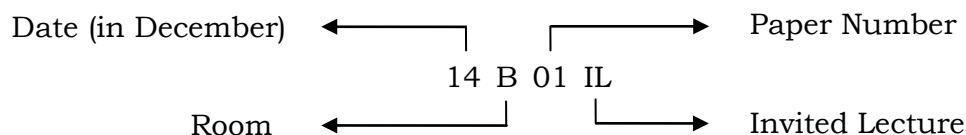
Important: Session rooms are *not* equipped with laptop computers. Please bring their own laptop computers for presentation. Preview room is available at the venue.

Chairpersons

Chairpersons are kindly requested to report their arrival to the reception desk of each session room at least 30 minutes before presentation of the first paper which they are to chair. Please make every effort to keep the Scientific Program on schedule.

Presentation Number

Presentation number for an oral presentation (e.g., 14B01IL) represents the following:



Poster Presentation

Presentation Time

Allotted time is as follows:

| | |
|-----------------------------------------|---------------|
| Mounting Posters | 9:00 – 12:30 |
| Obligation Time for Poster Presentation | |
| Group “a” | 12:30 – 13:15 |
| Group “b” | 13:15 – 14:00 |
| Display Posters | 14:00 – 16:30 |
| Removing Posters | 16:30 – 17:00 |

Poster Presenters

Your presentation number is indicated at the top of your poster display board.

Please prepare a title slip with the name(s) of author(s) and posters of your presentation by yourself. Pushpins and felt-tip pens will be available at the Room P Reception Desk. Poster presenters are kindly requested to stay in front of the poster at least during the obligation time for presentation and discussion.

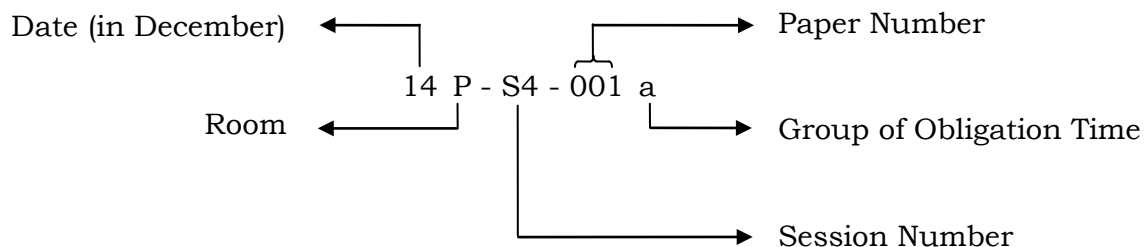
All the posters should be displayed on board from 9:00 through 16:30.

Poster Display Board

The size of a Poster Display Board for each poster presentation is 900 mm wide and 2100 mm high.

Presentation Number

Presentation number for a poster presentation (e.g., 14P-S4-001a) represents the following:



Poster Award

The Program Committee will select a few Poster Award from the applied Posters (to researchers less than 35 years old). The winners will be announced on IPC2016 Website later.

Time Table of Scientific Program

Wednesday, December 14, 2016

| Room Time | A | B | C | D | E | F | G | P | | | | |
|----------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------|
| 9:00 10:00 11:00 12:00 | S-2 Recent Trends in Physics for Macro- and Supra-molecules T.Koga T.Sato K.Terao | 14A01 T.Sato (Japan) | S-1 Recent Trends in Polymer Synthesis M.Kamigaito K.Matyjaszewski M.Muthukumar K.Matyjaszewski K.B.Wagener | 14B01IL K. Matyjaszewski (U.S.A.) | S-6 Polymers in Automobiles and Aircrafts T.Nagai Y.Fujita | 14D01IL O.Hayakawa (Japan) | S-4 Frontiers in Biomedical Polymers and Nanomedicines Y.Ohya K.Yoshimoto K.Yoshimoto S.Takeoka | 14G01IL J.Bang (Korea) | S-3 Frontiers in Surface and Interface in Macromolecular Systems D.A.Hoagland J.Bang T.Hayakawa | | | |
| | | 14A02 T.Sato (Japan) | | 14B03 R.Kawatani (Japan) | | 14D03IL K.Miura (Japan) | | 14E03 R.K.Gupta (Japan) | | 14F01IL W.E.Hennink (Netherlands) | 14G03 M.Kunitake (Japan) | |
| | | 14A02 M.Matsumoto (Japan) | | 14B04 T.Suga (Japan) | | 14D05IL M.Mori (Japan) | | 14E04 S.Hisamitsu (Japan) | | 14F03 N.F.C.Harun (Japan) | 14G04 Z.Li (China) | |
| | | 14A04 S.Fujii (Japan) | | 14B05 K.Satoh (Japan) | | 14D07 M.Hongo (Japan) | | 14E05IL C.Hsu (Taiwan) | | 14F04 S.Yamaguchi (Japan) | 14G05 S.Yusa (Japan) | |
| | | 14A05IL M. Muthukumar (U.S.A.) | | 14B06 M.Uchiyama (Japan) | | | | 14E07 M.Saito (Japan) | | 14F05IL K.Osada (Japan) | 14G06 H.Zhu (Japan) | |
| | | 14A07 K.Terao (Japan) | | 14B07 T.Ishizone (Japan) | | | | 14E08 K.Kim (Japan) | | 14F07 C.Huang (Japan) | 14G07 J.Chen (Taiwan) | |
| | | 14A08 Y.Matsuda (Japan) | | 14B08IL T.Uemura (Japan) | | | | 14E09 N.Kato (Japan) | | 14F08 A.Haine (Japan) | 14G08 D.A.Hoagland (U.S.A.) | |
| | | 14A09 L.Yan (Japan) | | 14B10 L.Luo (China) | | | | 14E10 K.Fujita (Japan) | | 14F09 A.Kikuchi (Japan) | 14G09IL C.J.Ellison (U.S.A.) | |
| | | 14A10 X.Ji (China) | | | | | | 14E11 T.Shiraki (Japan) | | 14F10 M.Nakayama (Japan) | | |
| | | 14A11 E.Zhang (China) | | | | | | | | 14F11 T.Tanaka (Japan) | | |
| | | | | | | | | | | | | |
| 14:00 15:00 16:00 17:00 | S-2 Recent Trends in Physics for Macro- and Supra-molecules M.Takenaka R.Ishige S.Okamoto | 14A12IL H.Chen (Taiwan) | S-1 Recent Trends in Polymer Synthesis T.Uemura T.Ishizone T.Shiono G.G.Giao | 14B12 E.B.Coughlin (U.S.A.) | S-6 Polymers in Automobiles and Aircrafts Y.Kageyama A.Matsumoto | 14D12IL T.B.Tolle (U.S.A.) | S-5 Optics, Electronics and Energy T.Fujigaya M.Watanabe C.D.Frisbie K.Oyaizu | 14E12IL M.S.Arnold (U.S.A.) | S-4 Frontiers in Biomedical Polymers and Nanomedicines Y.Iwasaki M.S.Shiochet Y.Katayama Y.Mituro | 14F12IL M.S.Shioche (Canada) | 14G12IL S.Kim (Korea) | S-3 Frontiers in Surface and Interface in Macromolecular Systems J.Chen C.J.Ellison S.Kim |
| | | 14A13 I.Asano (Japan) | | 14B13 S.Kanaoka (Japan) | | 14D14 A.Matsumoto (Japan) | | 14E14 S.Kamimura (Japan) | | 14F14 C.Feliciano (Japan) | 14G14 T.Sato (Japan) | |
| | | 14A15 K.Kim (Korea) | | 14B14 M.Seo (Korea) | | 14D15 A.Iwasaki (Japan) | | 14E15 S.Lin (Taiwan) | | 14F15 T.Yoshikawa (Japan) | 14G15 T.Narita (Japan) | |
| | | 14A16 S.Okamoto (Japan) | | 14B15 T.Terashima (Japan) | | 14D16 Y.Yamada (Japan) | | 14E16 B.Lai (Taiwan) | | 14F16 S.Takaoka (Japan) | 14G16 T.Mizutaru (Japan) | |
| | | 14A17 K.Suzuki (Japan) | | 14B16 N.Hosono (Japan) | | 14D17 P.Chouwatat (Japan) | | 14E17IL C.D.Frisbie (U.S.A.) | | 14F17 T.Ooya (Japan) | 14G17 T.J.McCarthy (U.S.A.) | |
| | | 14A18 S.Nozaeki (Japan) | | 14B17IL K.B.Wagener (U.S.A.) | | 14D18 M.Matsushita (Japan) | | 14E19 W.Chien (Taiwan) | | 14F18 Y.Iwasaki (Japan) | 14G18 Y.Hata (Japan) | |
| | | 14A19 F.Kaneko (Japan) | | 14B19IL Y.Li (China.) | | 14D19 X.Yan (Japan) | | 14E20 C.Lin (Taiwan) | | 14F19 Y.Nagasaki (Japan) | 14G19 Y.Inoue (Japan) | |
| | | 14A20 R.Ishige (Japan) | | 14B21 W.Tao (Japan) | | 14D20IL H.Ito (Japan) | | 14E21 Y.Kobayashi (Japan) | | 14F20 K.Tanaka (Japan) | 14G20 R.T.Gillet (Japan) | |
| | | 14A21 S.Nakagawa (Japan) | | 14B22IL E.Ihara (Japan) | | | | 14E22IL H.Segawa (Japan) | | 14F21 S.Takeoka (Japan) | 14G21 T.Wada (Japan) | |
| | | 14A22 M.Shibayama (Japan) | | | | | | | | 14F22IL K.Yoshimoto (Japan) | 14G22IL K.J.Wynne (U.S.A.) | |
| | | 14A23 G.Grason (U.S.A.) | | | | | | | | | | |
| | | | | | | | | Poster Display | | | | |
| | | | | | | | | Poster Removing Time | | | | |

Time Table of Scientific Program

Friday, December 16, 2016

| Room Time | A | B | C | D | E | F | G | P | | | | | | |
|----------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|---|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------|------------------------------|----------------------------------|-----------------------------------------|-----------------------------------|-----------------------------------|
| 9:00 10:00 11:00 12:00 | S-2 Recent Trends in Physics for Macro- and Supra-molecules T.Nakanishi T.Fukushima D.Miyajima | S-1 Recent Trends in Polymer Synthesis F.Sanda K.Naka | S-7 Polymers in Green Chemistry K.Satoh H.Otsuka H.Abe | | S-5 Optics, Electronics and Energy T.Fujigaya H.Okuzaki I.Tomita | S-4 Frontiers in Biomedical Polymers and Nanomedicines K.Osada I.Park E.M.Harth M.Matsusaki | S-3 Frontiers in Surface and Interface in Macromolecular Systems T.Seki D.Kawaguchi D.Kawaguchi K.Ariga | | | | | | | |
| | | | | | | | | | 16A01IL D.Miyajima (Japan) | 16B01IL K.Naka (Japan) | 16C01 F.Duriyasart (Japan) | 16E01IL H.Okuzaki (Japan) | 16F01IL E.M.Harth (U.S.A.) | 16G01IL D.Kawaguchi (Japan) |
| | | | | | | | | | 16A03 I.Akiba (Japan) | 16B03 S.Ito (Japan) | 16C02 W.Lin (Taiwan) | 16E03 M.Horie (Taiwan) | 16F03 S.Sornkamnerd (Japan) | 16G03 S.Watanabe (Japan) |
| | | | | | | | | | 16A04IL A.Schenning (Netherlands) | 16B04 I.Tomita (Japan) | 16C03 Y.Morimitsu (Japan) | 16E04 Y.Huang (Taiwan) | 16F04 A.Kawamura (Japan) | 16G04 T.Kato (Japan) |
| | | | | | | | | | 16A06 H.Bermudez (U.S.A.) | 16B05 F.Sanda (Japan) | 16C04 M.S.Ullah (Japan) | 16E05 R.Katsumata (U.S.A.) | 16F05IL M.Ebara (Japan) | 16G05 M.Kobayashi (Japan) |
| | | | | | | | | | 16A07 T.Nakanishi (Japan) | | 16C05 K.Satoh (Japan) | 16E06 K.Fujita (Japan) | 16F07 Y.Miura (Japan) | 16G06 A.Kuo (Japan) |
| | | | | | | | | | 16A08 J.Jung (Korea) | | 16C06 K.Shikinaka (Japan) | 16E07 S.T.Duong (Japan) | 16F08 T.Miyata (Japan) | 16G07 R.Ishige (Japan) |
| | | | | | | | | | 16A09 R.Sueto (Japan) | | 16C07 S.Puanglek (Japan) | 16E08 H.Watanabe (Japan) | 16F09 C.Okano (Japan) | 16G08 Y.Nagae (Japan) |
| | | | | | | | | | 16A10 J.Weng (Taiwan) | | 16C08 G.Matsuba (Japan) | 16E09 K.Suenaga (Japan) | 16F10 R.Ishihara (Japan) | 16G09IL T.Seki (Japan) |
| | | | | | | | | | | | 16C09 R.A.Rebia (Japan) | 16E10 M.Gon (Japan) | 16F11 T.Shibata (Japan) | |
| 14:00 15:00 16:00 17:00 | S-2 Recent Trends in Physics for Macro- and Supra-molecules I.Akiba S.Yao | | | | | | S-3 Frontiers in Surface and Interface in Macromolecular Systems M.Takai H.Matsuno R.Ishige | | | | | | | |
| | | | | | | | | | 16A12 S.Yao (Japan) | | | 16F12IL I.Park (Korea) | 16G12IL K.Ariga (Japan) | |
| | | | | | | | | | 16A13 S.Yamaguchi (Japan) | | | 16F14 K.Kyaw (Japan) | 16G14 R.Katsumata (U.S.A.) | |
| | | | | | | | | | 16A14 Y.Chen (Taiwan) | | | 16F15 Y.Hoshino (Japan) | 16G15 L.Wang (Japan) | |
| | | | | | | | | | 16A15 M.Jao (Taiwan) | | | 16F16IL Y.Ohya (Japan) | 16G16 K.Takada (Japan) | |
| | | | | | | | | | 16A16 G.Watanabe (Japan) | | | 16F18 H.Kashida (Japan) | 16G17 Y.Tsuda (Japan) | |
| | | | | | | | | | 16A17 M.Fukuhara (Japan) | | | 16F19 K.Ishihara (Japan) | 16G18 H.Yoshioka (Japan) | |
| | | | | | | | | | 16A18 Y.Kurata (Japan) | | | 16F20 M.Rutnakompiituk (Thailand) | 16G19 M.M.Bashar (Japan) | |
| | | | | | | | | | | | | | 16G20 H.Matsuno (Japan) | |
| | | | | | | | | | | | | | | |
| | | | | | Poster Mounting Time | | | | | | | | | |
| | | | | | Obligation Time for Poster Presentation group "a" 12:30-13:15 group "b" 13:15-14:00 | | | | | | | | | |
| | | | | | Poster Display | | | | | | | | | |
| | | | | | Poster Removing Time | | | | | | | | | |

Exhibition

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Date & Venue

From 9:00, Wednesday, December 14, 2016 to 16:30, Friday, December 16, 2016.

Room P, 2F, Multi-Purpose Hall, Fukuoka International Congress Center.

The 11th SPSJ International Polymer Conference (IPC 2016)

Plenary Lecture: Main Hall Oral Presentation: Room A-G Poster Presentation: Room P

● Notes:

(e.g.) 14A05IL: 14:Dec.14, A:Room A, 05:Paper #05, IL:Invited Lecture

Main Hall

Tuesday, December 13 (afternoon)

Plenary Lecture

| | | |
|---------|--------------------------------------------------------|--|
| | <i>A. Takahara, presiding</i> | |
| 13M01PL | Building a New Range of the State of the Art in | |
| 15:00 | SR(Synchrotron Radiation) Materials Science | |
| | <u>Masaki Takata</u> (Japan) 1 | |
| | <i>A. Usuki, presiding</i> | |
| 13M02PL | Active involvement of the chemical industry in | |
| 16:00 | implementation of "Strategic Approach to International | |
| | Chemicals Management (SAICM)" | |
| | <u>Shinoi Sakata</u> (Japan)..... 3 | |
| | <i>K. Sakurai, presiding</i> | |
| 13M03PL | From Design of Molecular Nano-machines to Bio-inspired | |
| 17:00 | Polymer Recognition Systems | |
| | <u>Seiji Shinkai</u> (Japan)..... 5 | |

Room A

Wednesday, December 14

S-2 Recent Trends in Physics for Macro- and Supra-molecules

| | | |
|---------|----------------------------------------------------------------|--|
| | <i>T. Koga, presiding</i> | |
| 14A01 | Dehydration and Phase Separation in Aqueous Solutions of | |
| 9:00 | Poly(N-isopropylacrylamide) | |
| | <u>Takahiro Sato</u> , Rintaro Takahashi, Mio Yoshitani, Ken | |
| | Terao, Xingping Qiu and Françoise Winnik (Japan) 7 | |
| 14A02 | Renovated Understanding of Critical Behaviour of | |
| 9:20 | poly(N-isopropylacrylamide): Hydration, Solvent | |
| | Deuterium Isotope Effects, and Cononsolvency | |
| | <u>Takaaki Sato</u> , Keiichi Yanase, Kazuyuki Hasuoka, Mamoru | |
| | Fujiki, Kazuya Mayumi and Daisuke Suzuki (Japan) 8 | |
| 14A03 | A laser T-jump study on the dynamic phase separation | |
| 9:40 | behavior in aqueous solutions of poly(N, | |
| | N-diethylacrylamide) | |
| | <u>Mitsuhiro Matsumoto</u> , Taka-Aki Asoh, Tatsuya Shoji and | |
| | Yasuyuki Tsuboi (Japan)..... 9 | |
| 14A04 | Platonic nature of sulfonatocalixarene-based micelles | |
| 10:00 | <u>Shota Fujii</u> and Kazuo Sakurai (Japan) 10 | |
| | <i>T. Sato, presiding</i> | |
| 14A05IL | Concepts of Electrostatic Assemblies of Macro- and | |
| 10:20 | Supra-molecules | |
| | <u>Murugappan Muthukumar</u> (U.S.A.)..... 11 | |
| 14A07 | Molecular Conformation and Intermolecular Interactions of | |
| 11:00 | Rigid Cyclic Polymers in Solution: Cyclic Amylose | |
| | Carbamate Derivatives | |
| | <u>Ken Terao</u> , Akiyuki Ryoki, Hiromi Ichikawa and Shinichi | |
| | Kitamura (Japan) 12 | |
| | <i>K. Terao, presiding</i> | |
| 14A08 | Thermal denaturation and renaturation behavior of xanthan | |
| 11:20 | with a wide range of molar mass | |
| | <u>Yasuhiro Matsuda</u> , Fumitada Sugiura, Kazuya Okumura | |
| | and Shigeru Tasaka (Japan)..... 13 | |
| 14A09 | Conformation of the globular protein-surfactant complex in | |
| 11:40 | aqueous solution | |
| | <u>Yan Li</u> and Takahiro Sato (Japan) 14 | |
| 14A10 | Critical Concentration and Scaling Exponents of One | |
| 12:00 | Soluble Polyimide in Solution | |
| | Ensong Zhang, Xuemin Dai, Wenke Yang, Zhixin Dong, | |
| | Xuepeng Qiu and <u>Xiangling Ji</u> (China)..... 15 | |
| 14A11 | Scaling behavior of one soluble polyimide with high | |
| 12:20 | molecular weight | |
| | <u>Ensong Zhang</u> , Xuemin Dai, Quan Chen, Xuepeng Qiu and | |

| | | |
|---------|------------------------------------------------------------------|--|
| | <u>Xiangling Ji</u> (China) 16 | |
| | <i>M. Takenaka, presiding</i> | |
| 14A12IL | Thermodynamic State of Weakly Interacting Block | |
| 14:00 | Copolymer | |
| | <u>Hsin-Lung Chen</u> , Yu-Chung Chen and Chang-Cheng Shiu | |
| | (Taiwan) 17 | |
| 14A14 | Location and influence of added block copolymers on | |
| 14:40 | oil-in-oil emulsions: the case of single AB and different | |
| | AC+BC copolymers | |
| | <u>Itaru Asano</u> and Timothy Lodge (Japan)..... 18 | |
| 14A15 | Self-assembly of block copolymer blends into inverse | |
| 15:00 | mesophases with controlled lattices in solution | |
| | <u>Kyoung Taek Kim</u> and Ahah Cho (Korea)..... 19 | |
| | <i>R. Ishige, presiding</i> | |
| 14A16 | SAXS in OBDD-OBDD Transition Studied by Singular | |
| 15:20 | Value Decomposition - Does an Intermediate Structure | |
| | Exist? - | |
| | <u>Shigeru Okamoto</u> , Kengo Nomura and Koudai Suzuki | |
| | (Japan)..... 20 | |
| 14A17 | Structural Study with Distortion in OBDD and OBDD | |
| 15:40 | Transition by SCFT simulation and SAXS Analysis Based | |
| | on Paracrystal Theory | |
| | <u>Koudai Suzuki</u> , Kengo Nomura, Shigeru Okamoto and | |
| | Takashi Honda (Japan) 21 | |
| 14A18 | Local dynamic viscoelastic analysis in crystalline polymer | |
| 16:00 | using a dynamic microbeam x-ray diffraction method | |
| | <u>Shuhei Nozaki</u> , Ken Kojo, Atsushi Takahara, Kohki | |
| | Aoyama and Hiroyasu Masunaga (Japan)..... 22 | |
| 14A19 | Crystalline region based polymer complex materials of sPS | |
| 16:20 | studied by simultaneous SANS/FTIR measuring system | |
| | <u>Fumitoshi Kaneko</u> , Shuma Sato, Naoki Seto, Aurel | |
| | Radulescu, Maria M Schiavone, Juergen Allgaier and | |
| | Koichi Ute (Japan)..... 23 | |
| | <i>S. Okamoto, presiding</i> | |
| 14A20 | Effect of Molecular Structure on Thermal Volume | |
| 16:40 | Expansion of Fully Aromatic Polyimides | |
| | <u>Ryohei Ishige</u> , Toshiaki Masuda, Yukiko Kozaki and Shinji | |
| | Ando (Japan) 24 | |
| 14A21 | Effects of Chain-ends Tethering on Polymer Crystallization | |
| 17:00 | in Nanometer-scale Spaces | |
| | <u>Shintaro Nakagawa</u> , Koshun Kawazu, Yuki Yoneguchi, | |
| | Shuichi Nojima, Takashi Ishizone, Daiki Arai, Kazuo | |
| | Yamaguchi and Seiichi Nakahama (Japan)..... 25 | |
| 14A22 | Structure of Critical Polymer Network Clusters | |
| 17:20 | <u>Mitsuhiro Shibayama</u> , Xiang Li and Takamasa Sakai | |
| | (Japan)..... 26 | |
| 14A23 | Equilibrium shape and size selection in self-assembled | |
| 17:40 | chiral fibers and bundles | |
| | <u>Gregory M. Grason</u> (U.S.A.) 27 | |

Thursday, December 15

S-2 Recent Trends in Physics for Macro- and Supra-molecules

| | | |
|---------|----------------------------------------------------------------|--|
| | <i>S. Ida, presiding</i> | |
| 15A01IL | Effect of Fibrous Skeleton in Polyampholyte Hydrogel on | |
| 9:00 | Adhesion in Water | |
| | <u>Takayuki Kurokawa</u> (Japan) 28 | |
| 15A03 | Developing Extremely Tough Hydrogel Composites | |
| 9:40 | <u>Daniel Rudolf King</u> , Yiwan Huang, Tao Lin Sun, Takoyuki | |
| | Kurokawa and Jian Ping Gong (Japan)..... 29 | |
| 15A04 | Peculiar Mechanics of Polyrotaxane Glass | |
| 10:00 | <u>Kazuaki Kato</u> , Hideaki Yokoyama and Kohzo Ito (Japan) | |
| | 30 | |
| | <i>T. Kurokawa, presiding</i> | |
| 15A05IL | Characterization of Large Deformation Behavior of | |
| 10:20 | Elastomers and Gels: Why Biaxial? | |
| | <u>Kenji Urayama</u> (Japan)..... 31 | |
| 15A07 | Dynamic self-assembly and physical properties of | |
| 11:00 | polyrotaxane thermoplastic elastomer | |
| | <u>Rina Maeda</u> , Shuntaro Uenuma, Koichi Mayumi, Hideaki | |

| | | | | | |
|---------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15A08 | 11:20 | Yokoyama and Kohzo Ito (Japan)..... 32 Composite hydrogel of inorganic nanosheet liquid crystal with a polymer and their anisotropic properties <u>Nobuyoshi Miyamoto</u> , Takumi Inadomi, Yujiao Wu and Kenji Urayama (Japan) 33 <i>K. Urayama, presiding</i> | 16A09 | 11:40 | 2D Sheets and 3D Vesicular Assemblies by Combination of Hexagon Pillar[6]arene and Pentagon Pillar[5]arene Ryuta Sueto, Kumiko Yoshikoshi, Takahiro Kakuta, Tomoki Ogoshi and Tada-aki Yamagishi (Japan)..... 50 |
| 15A09 | 11:40 | Preparation of Interpenetrate Polymer Network Using Amphiphilic N-vinylamides and Thermosensitive Polymers <u>Kai Kan</u> , Mitsuru Akashi and Hiroharu Ajiro (Japan)..... 34 | 16A10 | 12:00 | Preparation of polymer nano-cylinders via Polymerization in unimolecular micelles <u>Jing-Ting Weng</u> , Tso-Fan Yeh and Chien-Lung Wang (Taiwan) 51 <i>I. Akiba, presiding</i> |
| 15A10 | 12:00 | Structure Design of Thermoresponsive Gels via Crosslinking of Controlled Triblock Prepolymers Synthesized by RAFT Polymerization <u>Shohei Ida</u> , Hironobu Kitataka, Satoshi Tanimoto, Shokyoku Kanaoka and Yoshitsugu Hirokawa (Japan) ... 35 <i>T. Sakai, presiding</i> | 16A12 | 14:00 | The basic consideration of the mechanism of crystalline supramolecular interaction. <u>Shigeru Yao</u> , Yuri Kanazawa, Yuriko Tateishi, Ryoko Nakano and Hiroshi Sekiguchi (Japan)..... 52 |
| 15A12IL | 14:00 | Designing Non-Linear Properties of Elastomers with an Internal Network Architecture Pierre Millereau, Etienne Ducrot, Meredith Wiseman and <u>Costantino Creton</u> (France)..... 36 | 16A13 | 14:20 | Thermosensitive Silicone PSA Bearing a Side-Chain Crystalline Unit <u>Satoshi Yamaguchi</u> , Shin'ichiro Kawahara and Hiroto Murakami (Japan)..... 53 |
| 15A14 | 14:40 | Mechanical Properties of Polymer Composite Reinforced with Cellulose Nanofibers <u>Yuji Matsumoto</u> , Atsuomi Shundo, Hisato Hayashi, Nobutomo Tsuruzoe and Keiji Tanaka (Japan)..... 37 | 16A14 | 14:40 | Self-assembly behaviors and OFET performances of C60-pyrene giant shape amphiphiles <u>Yen-Yu Chen</u> , San-Lien Wu and Chien-Lung Wang (Taiwan) 54 <i>S. Yao, presiding</i> |
| 15A15 | 15:00 | Mechanical Performance of Elastomers with Bioinspired Multiphase Structure with Rich and Poor Cross-Link Densities <u>Naoko Yoshie</u> , Shoma Yoshida and Hirohisa Ejima (Japan) 38 <i>K. Kojio, presiding</i> | 16A15 | 15:00 | Morphological and structural characterizations of POSS conjugated giant molecules <u>Meng-Hsuan Jao</u> , Shih-Ting Lan, Chou-Ting Hsieh, Chain-Shu Hsu and Chien-Lung Wang (Taiwan)..... 55 |
| 15A16IL | 15:20 | Design and Properties of Functional Soft Materials via Polymer Self-Assembly and Supramolecular Interactions <u>Atsushi Noro</u> (Japan) 39 | 16A16 | 15:20 | Molecular Dynamics Simulation of Biomolecular Adsorption on Liquid Crystalline Monolayer <u>Go Watanabe</u> , Hiroki Eimura, Nicholas L Abbott and Takashi Kato (Japan) 56 |
| 15A18 | 16:00 | Preparation and aggregation of gel particles inspired by mussel adhesive protein <u>Shinji Abe</u> , Shingo Tamesue, Tetsu Mitsumata, Norio Tsubokawa and Takeshi Yamauchi (Japan) 40 <i>A. Noro, presiding</i> | 16A17 | 15:40 | Surface Strain Analysis of Flexible Polymer Films by Means of Surface Labeled Grating Method <u>Motoyuki Fukuhara</u> , Norihisa Akamatsu, Shigenori Fujikawa and Atsushi Shishido (Japan) 57 |
| 15A19 | 16:20 | Specific molecular aggregation structure and mechanical properties of novel cycloaliphatic diisocyanate-based polyurethane elastomer <u>Ken Kojio</u> , Shiori Masuda, Shuhei Nozaki, Atsushi Takahara and Satoshi Yamasaki (Japan)..... 41 | 16A18 | 16:00 | Two-dimensional Photoalignment Control of Liquid Crystal Polymers by Masked Photopolymerization <u>Yosuke Kurata</u> , Kyohei Hisano, Miho Aizawa, Masaki Ishizu and Atsushi Shishido (Japan) 58 |
| 15A20 | 16:40 | Effect of Hierarchical Heterogeneity on Mechanical Properties for An Epoxy Resin <u>Mika Aoki</u> , Atsuomi Shundo and Keiji Tanaka (Japan) .. 42 | Room B | | |
| 15A21 | 17:00 | The Stability and the Static Yield Stress of Magnetorheological Fluids <u>Yongsok Seo</u> , Youngwook Seo and WeiHuan Chuah (Korea)..... 43 | Wednesday, December 14 | | |

Friday, December 16

| | | | | | |
|--------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S-2 Recent Trends in Physics for Macro- and Supra-molecules | | S-1 Recent Trends in Polymer Synthesis | | | |
| 16A01IL | 9:00 | <i>M. Kamigaito, presiding</i> Chain-growth supramolecular polymerization: Its scope and potential <u>Daigo Miyajima</u> (Japan) 44 | 14B01IL | 9:00 | Polyacrylonitrile - from synthesis to nanocarbons <u>Krzysztof Matyjaszewski</u> (U.S.A.)..... 59 |
| 16A03 | 9:40 | Self-Assembly of Cyclic Peptide Amphiphile in Selective Solution <u>Isamu Akiba</u> , Eri Tabata, Satoshi Kanazawa and Kazuo Sakurai (Japan) 45 <i>T. Fukushima, presiding</i> | 14B03 | 9:40 | Synthesis of Multi-Stimuli-Responsive Polymers Using N-Vinylamides Bearing Substituents at N-Position <u>Ryo Kawatani</u> , Kai Kan, Mitsuru Akashi and Hiroharu Ajiro (Japan)..... 60 |
| 16A04IL | 10:00 | Stimuli-Responsive Polymer Materials <u>Albert Schenning</u> (Netherlands)..... 46 | 14B04 | 10:00 | Controlled Radical Polymerization in Photo-curing: Temporal/Spatial Control on Evolved Gradient Nanostructures <u>Takeo Suga</u> , Eigo Ando and Hiroyuki Nishide (Japan)... 61 <i>K. Matyjaszewski, presiding</i> |
| 16A06 | 10:40 | Assembly and Characterization of Supramolecular DNA Bottlebrushes <u>Harry Bermudez</u> (U.S.A.) 47 <i>D. Miyajima, presiding</i> | 14B05 | 10:20 | Controlled/Living Polymerization via Switchable Dual Active Species Using Dormant Covalent Bond <u>Kotaro Satoh</u> and Masami Kamigaito (Japan) 62 |
| 16A07 | 11:00 | Alkyl- π ; Functional Molecular Liquids: Study on Local Microenvironment of π -unit <u>Takashi Nakanishi</u> , Fengniu Lu, Avijit Ghosh, Bhawani Narayan, Tomohisa Takaya, Izuru Kawamura and Shigehiko Hayashi (Japan) 48 | 14B06 | 10:40 | Novel Living Cationic Polymerization via Reversible Chain-Transfer Mechanism <u>Mineto Uchiyama</u> , Kotaro Satoh and Masami Kamigaito (Japan)..... 63 |
| 16A08 | 11:20 | Calix[4]arene-Based Supramolecular Gels Formed by Hydrazone Reaction <u>Jong Hwa Jung</u> and Ji Ha Lee (Korea)..... 49 | 14B07 | 11:00 | Anionic Polymerization of Hydrocarbon Monomers <u>Takashi Ishizone</u> (Japan) 64 <i>K. B. Wagener, presiding</i> |
| | | | 14B08IL | 11:20 | Controlled Polymerizations in Coordination Nanospaces <u>Takashi Uemura</u> (Japan) 65 |
| | | | 14B10 | 12:00 | A Novel way to prepare polydiacetylene through side chain modification Mingming Yin and <u>Liang Luo</u> (China) 66 <i>T. Uemura, presiding</i> |
| | | | 14B12 | 14:00 | Exploring the Continuum between Three-Arm Star and Linear A-B-C Triblock Copolymers <u>E. Bryan Coughlin</u> and Rohit Gupta (U.S.A.)..... 67 |
| | | | 14B13 | | Facile One-Shot Star Polymer Synthesis by Living Cationic |

| | | | |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:20 | Polymerization <u>Shokyoku Kanaoka</u> , Arihiro Kanazawa and Sadahito Aoshima (Japan)..... 68 | 15B16 | Mixed-Ligand Approach to Highly Selective Direct Arylation Polymerization (DARp) <u>Masayuki Wakioka</u> , Eisuke Iizuka, Rina Takahashi and Fumiyuki Ozawa (Japan)..... 86 |
| 14B14 | Heteroarm Core Cross-linked Star Polymers via RAFT Polymerization 14:40 Nam Young Ahn, Yunji Jung and <u>Myungeun Seo</u> (Korea)69 <i>T. Ishizone, presiding</i> | 15B17 | Solvent free polymerization for 3-hexylthiophene in the presence of FeCl ₃ particles under confined states 15:40 <u>Tomoyasu Hirai</u> , Yusuke Nag and Atsushi Takahara (Japan)..... 87 |
| 14B15 | Precision Self-Assembly and Self-Sorting of Amphiphilic Random Copolymers in Water 15:00 <u>Takaya Terashima</u> and Mitsuo Sawamoto (Japan) 70 | 15B18 | The mechanism and effect of the ratio of oxidative agent to polymer yield by chemical oxidative polymerization 16:00 <u>An Phung Hai Thien</u> and Ryuichi Sugimoto (Japan) 88 <i>I. Tomita, presiding</i> |
| 14B16 | Self-Sorting Synthesis of Coordination Star Polymers with a Metal-Organic Polyhedral Core 15:20 <u>Nobuhiko Hosono</u> and Susumu Kitagawa (Japan)..... 71 | 15B19 | Synthesis and Catalyst-free Click Reaction of Nitrile N-Oxide-functionalized Polymers 16:20 <u>Hiroimitsu Sogawa</u> , Toyokazu Tsubata, Shohei Takamatsu and Toshikazu Takata (Japan)..... 89 |
| 14B17IL | Raising High Density Polyethylene's Melting Point By 40 C 15:40 <u>Kenneth B. Wagener</u> and Taylor Gaines (U.S.A.)..... 72 <i>T. Shiono, presiding</i> | 15B20IL | "Living" Crystallization-Driven Self-Assembly: A Versatile, Seeded Growth Approach to Supramolecular Materials 16:40 <u>Ian Manners</u> (U.K.) 90 |
| 14B19IL | Efficient Syntheses and Detailed Characterization of Well-defined Functional Isotactic Polypropylene 16:20 <u>Yuesheng Li</u> , Xiaoyan Wang and Li Pan (China)..... 73 | | |
| 14B21 | Copolymerization of Ethylene and Polar monomers Using Ni/IzOO Catalysts 17:00 <u>Wenjie Tao</u> , Ryo Nakano, Shingo Ito and Kyoko Nozaki (Japan)..... 74 <i>G. G. Qiao, presiding</i> | | |
| 14B22IL | Pd-initiated Polymerization of Diazoacetates: New Synthetic Strategy for C-C Main Chain Polymers 17:20 <u>Eiji Ihara</u> (Japan) 75 | | |

Thursday, December 15

S-1 Recent Trends in Polymer Synthesis

| | |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <i>T. Satoh, presiding</i> |
| 15B01 | Polymerization of Bis(diazocarbonyl) Compounds Selectively Affording Well-defined Cyclopolymers with Closely-aligned Cyclic Units 9:00 <u>Hiroaki Shimomoto</u> , Misaki Kikuchi, Junya Aoyama, Tomomichi Itoh and Eiji Ihara (Japan)..... 76 |
| 15B02 | Synthesis and Applications of Well-defined Functionalized Polymer Particles Based on Living Polymerization of Allene Derivatives 9:20 <u>Akira Yamauchi</u> , Yoshiyuki Oguchi, Takeshi Wakiya, Tadashi Iwamoto, Hiroki Nishiyama, Shinsuke Inagi and Ikuyoshi Tomita (Japan) 77 |
| 15B03IL | Combating multidrug-resistant Gram-negative bacteria with star-shaped peptide polymers, not antibiotics 9:40 <u>Greg G. Qiao</u> (Australia)..... 78 <i>E. Ihara, presiding</i> |
| 15B05 | Re-examination of the Polymerization of Amio Acid NCAs. 74. A proposal of answers for some problems in the reaction mechanism. 10:20 <u>Hitoshi Kanazawa</u> and Aya Inada (Japan)..... 79 |
| 15B06 | Ring-opening polymerization of cyclic esters catalyzed by organic acid salt 10:40 <u>Tatsuya Saito</u> , Yusuke Aizawa, Takuya Isono, Takuya Yamamoto, Kenji Tajima and Toshifumi Satoh (Japan) .. 80 |
| 15B07 | Synthesis of Architecturally Complex Amphiphilic Block Copolymers via Super Base-Catalyzed Ring-Opening Polymerization of Epoxides 11:00 <u>Takuya Isono</u> , Yusuke Satoh and Toshifumi Satoh (Japan) 81 |
| 15B08 | "Cohelical Crossover Polymerization" of 4,6-Acetalized beta-1,3-Glucan Macromonomers 11:20 <u>Junji Sakamoto</u> and Seiji Shinkai (Japan)..... 82 <i>I. Manners, presiding</i> |
| 15B12IL | Alternating Intramolecular and Intermolecular Catalyst-Transfer Condensation Polymerization 14:00 <u>Masataka Nojima</u> , Kentarou Kosaka, Masaru Kato, Yoshihiro Ohta and <u>Tsutomu Yokozawa</u> (Japan)..... 83 |
| 15B14 | Synthesis of A Series of Arylene Bisimide-Based Polymers by Direct Arylation Polycondensation 14:40 <u>Kazuhiro Nakabayashi</u> , Masaya Yamada, Haruka Fukuzawa and Hideharu Mori (Japan) 84 <i>T. Yokozawa, presiding</i> |
| 15B15 | Rare-Earth-Catalyzed C-H Polyaddition of Dialkoxyarenes to Unconjugated Dienes 15:00 |

Friday, December 16

S-1 Recent Trends in Polymer Synthesis

| | |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <i>F. Sanda, presiding</i> |
| 16B01IL | Synthesis of Element Block Polymers Based on T ₈ -caged Silsesquoxanes 9:00 <u>Kensuke Naka</u> , Takayuki Maegawa, Yasuyuki Irie, Orito Miyashita, Takahiro Yamanaka and Hiroaki Imoto (Japan) 91 |
| 16B03 | Syntheses of Group 13 Elements Diiminates and Substituent Effects on Their Solid-State Emissive Properties 9:40 <u>Shunichiro Ito</u> , Amane Hirose, Madoka Yamaguchi, Misuzu Fukuyama, Kazuo Tanaka and Yoshiki Chujo (Japan).... 92 <i>K. Naka, presiding</i> |
| 16B04 | π -Conjugated Polymers Possessing Group 14-16 Elements-blocks by Precision Polymer Reactions 10:00 <u>Ikuyoshi Tomita</u> , Yoshimasa Matsumura, Feng Zheng, Hiroki Nishiyama and Shinsuke Inagi (Japan)..... 93 |
| 16B05 | Synthesis and Structure Control of Platinum-Containing Conjugated Polymers 10:20 <u>Fumio Sanda</u> , Manabu Marumoto and Yu Miyagi (Japan)94 |

Room C

Thursday, December 15

S-7 Polymers in Green Chemistry

| | |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <i>T. Nishino, presiding</i> |
| 15C01IL | Decorating Chitosan via Water-based Chitosan for Biomedical Applications 9:00 <u>Suwabun Chirachanchai</u> , J. Fangkangwanwong, M. Matsumoto, C. Pitakchatwong and V. Engkakul (Thailand) 95 |
| 15C03 | Thermosensitive Hydrogel of Trimethylene Carbonate Derivatives with Oligo(ethylene glycol) Units 9:40 <u>Nalinthip Chanthaset</u> , Yoshiaki Haramiishi, Kai Kan and Hiroharu Ajiro (Japan)..... 96 |
| 15C04 | Raman spectroscopy screening for active photosynthesis cells with stable isotope-labeling. 10:00 <u>Yusuke Yonamine</u> , Yuta Suzuki, Takuro Ito, Tomohisa Hasunuma, Yoshiko Miura, Keisuke Goda, Yasuyuki Ozeki and Yu Hoshino (Japan)..... 97 <i>S. A. Miller, presiding</i> |
| 15C05IL | All-Cellulose Eco- & Nanocomposites 10:20 <u>Takashi Nishino</u> (Japan) 98 |
| 15C07 | The Effect of Aliphatic unit in Sulfonated Polyimide CT Complex Hybrid Films for High Temperature Fuel Cell 11:00 <u>Liana Christiani</u> , Shiyang Feng, Kazunari Sasaki and Masamichi Nishihara (Japan) 99 <i>S. Chirachanchai, presiding</i> |
| 15C08 | Sustainable network materials utilizing anthracene-based thermo- and photo-reversible bonds 11:20 |

| | | |
|---------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15C09IL | 11:40 | <u>Makito Yokoe</u> , Daisuke Yamamoto, Koji Yamauchi and Timothy E. Long (Japan) 100 Programming the Properties and Degradation of Sustainable Polymers <u>Stephen A. Miller</u> (U.S.A.) 101 <i>Z. Guan, presiding</i> |
| 15C12IL | 14:00 | High-performance Biopolymers Derived from Aromatic Microbial Chemicals <u>Tatsuo Kaneko</u> , Seiji Tateyama and Naoki Takaya (Japan) 102 |
| 15C14 | 14:40 | Syntheses of environment-friendly, optically-active biopolyamides from itaconic acid and amino acid. <u>Mohammad Asif Ali</u> , Seiji Tateyama and Tatsuo Kaneko (Japan) 103 |
| 15C15 | 15:00 | Development of Rigid Monomer Bearing Diamantane-like Core from Naturally Occurring myo-Inositol <u>Shusuke Okamoto</u> , Tomonori Mizuno and Atsushi Sudo (Japan) 104 <i>T. Kaneko, presiding</i> |
| 15C16 | 15:20 | Spiro Polymers from naturally occurring myo-inositol <u>Atsushi Sudo</u> , Arata Yoshida and Dai Ishida (Japan) 105 |
| 15C17IL | 15:40 | High Performance Polysaccharide Derivatives: From Synthesis to Property Control <u>Tadahisa Iwata</u> (Japan)..... 106 <i>T. Iwata, presiding</i> |
| 15C19 | 16:20 | Thermally Reprocessable Polymers with Bis(dialkylamino)disulfides as a Dynamic Covalent Linkage <u>Akira Takahashi</u> , Raita Goseki and Hideyuki Otsuka (Japan) 107 |
| 15C20IL | 16:40 | Bioinspired Design of Dynamic and Self-healing Polymers <u>Zhibin Guan</u> (U.S.A.) 108 |

Friday, December 16

S-7 Polymers in Green Chemistry

| | | |
|-------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | <i>K. Satoh, presiding</i> |
| 16C01 | 9:00 | Hierarchical Cheek-brush Morphology of Titanium Dioxide: Synthesis and its Effect on Tensile Strength of Nanocomposite Poly(N-isopropylacrylamide) Hydrogel <u>Farkun Duriyasart</u> , Hiromu Hamauzu, Masataka Ohtani and Kazuya Kobiro (Japan) 109 |
| 16C02 | 9:20 | Improved Microstructure of Green Composites using Polymer Modified Mortar <u>Wei-Ting Lin</u> , An Cheng, Sao-Jeng Chao, Yu-Chen Hsu and Chin-Hung Tseng (Taiwan) 110 |
| 16C03 | 9:40 | Mechanical Properties of Ionic Liquid-contained Deoxyribonucleic Acid Films <u>Yuma Morimitsu</u> , Hisao Matsuno, Noboru Ohta, Hiroshi Sekiguchi, Atsushi Takahara and Keiji Tanaka (Japan) 111 <i>H. Otsuka, presiding</i> |
| 16C04 | 10:00 | Synthesis of Cinchona Alkaloid Squaramide Polymers as Bifunctional Chiral Organocatalysts for the Enantioselective Michael Addition of β -Ketoester to Nitroolefin. <u>Mohammad Shahid Ullah</u> , Naoki Haraguchi and Shinichi Itsuno (Japan) 112 |
| 16C05 | 10:20 | Controlled/Living Polymerization of Naturally Occurring Terpenes and Related Monomers <u>Kotaro Satoh</u> and Masami Kamigaito (Japan)..... 113 |
| 16C06 | 10:40 | Total conversion of lignocellulosic biomass to functional materials via sustainable and practicable process <u>Kazuhiro Shikinaka</u> , Yuki Kubota, Yuichiro Otsuka, Masaya Nakamura and Yoichi Tominaga (Japan) 114 <i>H. Abe, presiding</i> |
| 16C07 | 11:00 | Structure, chemical modification, and properties of linearly unnatural-type α -1,3-glucan <i>in vitro</i> synthesized by recombinant glucosyltransferase <u>Sakaran Puanglek</u> , Satoshi Kimura, Yukiko Enomoto-Rogers, Taizo Kabe, Makoto Yoshida, Masahisa Wada and Tadahisa Iwata (Japan) 115 |
| 16C08 | 11:20 | Distribution of crystals in spherulites of poly(L-lactic acid)/poly(D-lactic acid) blends <u>Go Matsuba</u> and Hiroaki Sato (Japan) 116 |
| 16C09 | | Preparation of |

| | |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:40 | Poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyhexanoate] / Poly(vinyl alcohol) Blend Nanofibers. <u>Rina Afiani Rebia</u> and Toshihisa Tanaka (Japan)..... 117 |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

Room D

Wednesday, December 14

S-6 Polymers in Automobiles and Aircrafts

| | | |
|---------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | <i>T. Nagai, presiding</i> |
| 14D01IL | 9:00 | Teflon™ Fluoropolymers: Leading-Edge Material to Open up New World of Automotive Performance <u>Osamu Hayakawa</u> (Japan) 118 |
| 14D03IL | 9:40 | “DURABIO™”, New Possibility for Automotive Parts <u>Kenji Miura</u> (Japan)..... 119 <i>Y. Fujita, presiding</i> |
| 14D05IL | 10:20 | Introduction of Mitsui Chemicals' Metal/Resin Integrated Technology (POLYMETAC™) <u>Minehiro Mori</u> (Japan) 120 |
| 14D07 | 11:00 | High Performance all-Polyimide Nanocomposite using Electrospinning <u>Masato Hongo</u> , Keiko Mizoguchi, Chizuru Hongo and Takashi Nishino (Japan) 121 <i>Y. Kageyama, presiding</i> |
| 14D12IL | 14:00 | Opportunities and challenges for polymer matrix composites <u>Tia Benson Tolle</u> (U.S.A.) 122 |
| 14D14 | 14:40 | Metal-Resin Bonding via Epoxy Monolith Layers <u>Akikazu Matsumoto</u> , Fai Uehara, Yuka Sugimoto, Yukihiro Nishimura and Haruyuki Okamura (Japan) 123 |
| 14D15 | 15:00 | Effect of screw geometries on fiber length and fiber dispersion of FRTP in injection molding <u>Akimitsu Iwasaki</u> , Tatsuya Tanaka, Akira Inoue and So Shimokusuzono (Japan)..... 124 |
| 14D16 | 15:20 | Joint efficiency of bolted CFRTP using reinforced collar with sub-micron fibers <u>Yuto Yamada</u> , Kazuya Okubo, Toru Fujii, Akihiro Maeda, Masao Tomioka and Takeshi Ishikawa (Japan)..... 125 <i>A. Matsumoto, presiding</i> |
| 14D17 | 15:40 | Surface modification of poly(ether ether ketone) via self-initiated surface graft polymerization for aqueous lubrication <u>Patcharida Chouwatat</u> , Tomoyasu Hirai, Yuji Higaki and Atsushi Takahara (Japan)..... 126 |
| 14D18 | 16:00 | Research of mechanical properties of carbon fiber reinforced thermoplastic with carbon non-woven fabric for automotive application <u>Masaya Matsushita</u> , Yoishiro Ogura, Akihiko Imajo, Hiroyuki Inoya and Hiroyuki Hamada (Japan) 127 |
| 14D19 | 16:20 | Mechanical Properties of Glass Fiber/ Carbon Fiber Reinforced Polypropylene Hybrid Composites Fabricated by the DFFIM Process <u>Xiaofei Yan</u> , Akihiko Imajo, Akio Kataoka and Hiroyuki Hamada (Japan)..... 128 |
| 14D20IL | 16:40 | Structure-Physical Properties of of Novel Polymer Blends and Composites A. Ishigami, Y. Kodama, T. Konno and <u>Hiroshi Ito</u> (Japan) 129 |

Thursday, December 15

S-6 Polymers in Automobiles and Aircrafts

| | | |
|---------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | <i>Y. Fujita, presiding</i> |
| 15D01IL | 9:00 | Overcome the Conflict Between Strength and Toughness in Polymers and Composites <u>Chaobin He</u> (Singapore) 130 |
| 15D03 | 9:40 | Structure and Properties of natural rubber and Guayule rubber <u>Seiichi Kawahara</u> and Kenichiro Kosugi (Japan)..... 131 |
| 15D04 | 10:00 | Development of creep-less composites by using Tg-less epoxy resin <u>Hirofumi Nishida</u> and Kazuhiro Nomura (Japan) 132 <i>Y. Ozeki, presiding</i> |
| 15D05 | 10:20 | Development of in situ-polymerizing thermoplastic composites using linearly polymerizable epoxy resin <u>Kazuhiro Nomura</u> and Hirofumi Nishida (Japan) 133 |

| | |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15D06 | Fabrication of carbon nano fiber by Cotton Candy Method 10:40 <u>Akihiro Tada</u> , Jitlada Boonlertsamut, Yoshihumi Aoi, Supaphorn Thumsorn, Hiroyuki Inoya, Masayuki Okoshi and Hiroyuki Hamada (Japan) 134 |
| 15D07IL | (Virtual) Process chain for the manufacturing of structural 11:00 automotive parts <u>Frank Henning</u> , Luise Kaerger and Philip Rosenfeld (Germany)..... 135 |

S-3 Frontiers in Surface and Interface in Macromolecular Systems

M. Kobayashi, presiding

| | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15D12 | Hyperbranched polymers prepared by RAFT-SCVP as 14:00 surface modifiers to fabricate thermo-responsive cell culture dishes <u>Yu Sudo</u> , Ryuki Kawai, Yuta Nabae, Teruaki Hayakawa and Masa-aki Kakimoto (Japan)..... 136 |
| 15D13 | RAFT-Synthesized Block-Random Copolymer Surfactants 14:20 to Form Non-Aqueous Dispersion for Inkjet Printing Ink <u>Naofumi Ezaki</u> , Yoshifumi Watanabe, Hiroshi Hayashi, Hiroyuki Ogawa and Hideharu Mori (Japan)..... 137 |
| 15D14 | Electropolymerization and Patterning of Functionalized 14:40 Poly(3,4-ethylenedioxythiophene) <u>Jih-Guang Wu</u> and <u>Shyh-Chyang Luo</u> (Taiwan) 138 |
| 15D15 | Surface modification of agricultural waste through 15:00 vapor-phase assisted polymerization for biocomposites <u>Kubra Eksiler</u> , Yoshito Ando, Yoshihito Shirai, Kim Donghee and Lee Heesung (Japan)..... 139 |
| 15D16 | Fabrication of zwitterionic polymer brush surfaces on 15:20 polystyrene substrate via surface-initiated atom transfer radical polymerization and their functionalization by plasma techniques <u>Yasushi Sasai</u> , Naoki Doi, Yukinori Yamauchi, Masayuki Kuzuya and Shin-ichi Kondo (Japan) 140 |

Room E

Wednesday, December 14

S-5 Optics, Electronics and Energy

K. Oyaizu, presiding

| | |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14E03 | Photon upconversion under low excitation intensity in 9:40 metal-organic frameworks <u>Rakesh K Gupta</u> , Prasenjit Mahato, Nobuhiro Yanai and Nobuo Kimizuka (Japan) 141 |
| 14E04 | Controlled chromophore networks in ionic liquids for 10:00 photon upconversion under low excitation intensity <u>Shota Hisamitsu</u> , Nobuhiro Yanai, Karina Shimizu, Jose N C Lopes and Nobuo Kimizuka (Japan) 142 <i>K. Miyatake, presiding</i> |
| 14E05IL | Synthesis of donor-acceptor conjugated polymer and 10:20 crosslinkable fullerene derivatives for polymer solar cell application <u>Chain-Shu Hsu</u> and Shih-Hao Peng (Taiwan) 143 |
| 14E07 | Highly Efficient and Thermally Stable Solar Cells Based on 11:00 Thiazolothiazole and Naphthobisthiadiazole Copolymers <u>Masahiko Saito</u> , Itaru Osaka, Yasuhito Suzuki, Kazuo Takimiya, Takashi Okabe, Satoru Ikeda and Tsuyoshi Asano (Japan) 144 <i>N. Kimizuka, presiding</i> |
| 14E08 | Synthesis of copolymers from carbazole derivatives for 11:20 hole transporting materials (HTMs) and application to solar cell <u>Kyusun Kim</u> , Shinji Kanehashi and Kenji Ogino (Japan) 145 |
| 14E09 | Relationship of Polymerization Number to Optical and 11:40 Thermal Properties of Fluorene Containing Polycarbonate Oligomers <u>Noriyuki Kato</u> and Hiroshi Ito (Japan)..... 146 |
| 14E10 | Emission time course of double insulated organic 12:00 electroluminescence devices composed of polymer semiconductors <u>Katsuhiko Fujita</u> and Takafumi Hatakeda (Japan)..... 147 |
| 14E11 | Near-Infrared Photoluminescence Modulation of Carbon 12:20 Nanotubes Based on Molecular Design of Chemical Modification Sites <u>Tomohiro Shiraki</u> , Tomonari Shiraishi, Hisashi Onitsuka, Gergely Juhász and Naotoshi Nakashima (Japan)..... 148 |

| | |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14E12IL | Carbon Nanotube and Graphene Nanoribbon Electronics: 14:00 Overcoming Synthesis, Heterogeneity, and Assembly Challenges <u>Michael S. Arnold</u> , Gerald J. Brady, Katherine Jinkins, Padma Gopalan, Robert M. Jacobberger and Austin J. Way (U.S.A.) 149 |
| 14E14 | Inter-core/cladding boundary light exchange of dye-doped 14:40 polymer optical fiber <u>So Kamimura</u> and Rei Furukawa (Japan) 150 |
| 14E15 | Electron-transporting Polyphenylenes Containing Pendant 15:00 Benzimidazolyl and Diethanolamino Groups: Synthesis, Characterization and Application in PLEDs <u>Sheng-Fong Lin</u> , Chih-Yang Tseng and Yun Chen (Taiwan) 151 <i>M. Watanabe, presiding</i> |
| 14E16 | Roles of lateral and end-capping substituents in the 15:20 solid-state packing and OFET performance of a multi-fused heteroarene <u>Bo-Han Lai</u> , Chou-Ting Hsieh, Chain-Shu Hsu, Chun-Kai Wang, Ken-Tsung Wong and Chien-Lung Wang (Taiwan) 152 |
| 14E17IL | The Effect of Strain on the Work Function of Organic 15:40 Semiconductors <u>C. Daniel Frisbie</u> (U.S.A.) 153 <i>C. D. Frisbie, presiding</i> |
| 14E19 | Conjugated Polymeric Chemosensors containing Pendant 16:20 Azacrown Ether or Carboxylate Groups : Synthesis and Recognition Characteristics to Metal Ions <u>Wen-Shan Chien</u> , Hsiao-Chu Su, Chiao-Pei Chen and Yun Chen (Taiwan) 154 |
| 14E20 | Hydroxyethyl Cellulose Compositd with M ²⁺ Chelate 16:40 Complexes as an Effective Electron-injection Layer for Polymer Light-emitting Diodes <u>Chih-Yang Lin</u> , Cheng-Liang Wu and Yun Chen (Taiwan) 155 |
| 14E21 | Regulation of Electrochemical Properties of Ion Gel 17:00 Electrolyte Using LCST Thermo-sensitive Block Copolymers <u>Yumi Kobayashi</u> , Yuzo Kitazawa, Kei Hashimoto, Hisashi Kokubo and Masayoshi Watanabe (Japan) 156 <i>K. Oyaizu, presiding</i> |
| 14E22IL | Basics and Applications of Organometal Halide Perovskite 17:20 Solar Cells <u>Hiroshi Segawa</u> (Japan)..... 157 |

Thursday, December 15

S-5 Optics, Electronics and Energy

K. Miyatake, presiding

| | |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15E01IL | Systematic Material Design for Polymer Electrolyte Fuel 9:00 Cells and Solid Alkaline Fuel Cells <u>Takeo Yamaguchi</u> (Japan)..... 158 |
| 15E03IL | Ion Conducting Polymer Membranes for Fuel Cells and 9:40 Batteries: Where Polymer-Chemistry meets Electrochemistry <u>Klaus-Dieter Kreuer</u> (Germany) 159 <i>K. D. Kreuer, presiding</i> |
| 15E05 | Chemically Stable Aromatic Ionomers as Proton Exchange 10:20 Membranes <u>Kenji Miyatake</u> , Junpei Miyake, Ryunosuke Taki, Ryo Akiyama and Ryo Shimizu (Japan) 160 |
| 15E06 | Grazing incidence small angle neutron scattering studying 10:40 model catalyst layer for polymer electrolyte fuel cell <u>Satoshi Koizumi</u> , Satoru Ueda, Akihiro Ohira, Seiichi Kuroda and Henrich Frielinghaus (Japan) 161 |
| 15E07IL | Creation of Highly Durable Fuel Cells Based on 11:00 Double-polymer Coated Nanocarbon <u>Naotoshi Nakashima</u> (Japan) 162 <i>T. Yamaguchi, presiding</i> |
| 15E09 | Optical limiting by molecular reorientation of polymer 11:40 networked dye-doped liquid crystals <u>Erika Katayama</u> , Jing Wang and Atsushi Shishido (Japan) 163 |
| 15E10 | Ferroelectric Coordination Polymers Self-assembled from |

| | |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12:00 | Liquid Crystalline Zinc(II) Porphyrin and Dipyrindyl Ligands <u>Joseph K.-H. Hui</u> , Hiroyuki Kishida, Kenta Takemasu, Keita Ishiba, Masa-aki Morikawa and Nobuo Kimizuka (Japan)..... 164 |
| 15E11 12:20 | Weak surface anchoring of a nematic liquid crystal on a uniquely designed acrylate polymer <u>Rijeesh Kizhakidathazhath</u> , Hiroki Higuchi, Yasushi Okumura and Hirotsugu Kikuchi (Japan) 165 <i>N. Nakashima, presiding</i> |
| 15E12IL 14:00 | Advanced Materials for Energy Storage and Conversion Based on Block Copolymer Self-assembly in Ionic Liquids <u>Masayoshi Watanabe</u> (Japan)..... 166 |
| 15E14IL 14:40 | High-Conductivity Self-Assembled Polymers Onnuri Kim, Hayoung Jung and <u>Moon Jeong Park</u> (Korea) 167 <i>M. Park, presiding</i> |
| 15E16 15:20 | Thermally Activated Delayed Fluorescence Dendrimer Based on Dendritic Carbazoles <u>Ken Albrecht</u> , Kenichi Matsuoka, Katsuhiko Fujita and Kimihisa Yamamoto (Japan)..... 168 |
| 15E17 15:40 | Optimization of Thermoelectric Properties of Conducting Polymers for Improvement of Device Performance <u>Qingshuo Wei</u> , Masakazu Mukaida, Kazuhiro Kirihara and Takao Ishida (Japan) 169 |
| 15E18 16:00 | Conjugated Polymer Spheres for Microresonators and Lasers <u>Yohei Yamamoto</u> (Japan) 170 |
| 15E19 16:20 | Synthesis and Morphogenesis of Conductive Polymers on the Surface of Organic Oxidant <u>Kosuke Sato</u> , Hiroataka Masaki, Mirei Arayasu, Yuya Oaki and Hiroaki Imai (Japan) 171 <i>Y. Yamamoto, presiding</i> |
| 15E20 16:40 | Electrosynthesis of PEDOT Micro-fibers by Means of Bipolar Electrochemistry <u>Shinsuke Inagi</u> , Yuki Koizumi, Masato Ohira, Hiroki Nishiyama and Ikuyoshi Tomita (Japan)..... 172 |
| 15E21 17:00 | Flexible and semi-conductive poly (3-substituted thiophene). <u>Jian Shen</u> , Kohei Murakami, Takuya Matsumoto, Chizuru Hongo, Atsunori Mori and Takashi Nishino (Japan) 173 |

Friday, December 16

S-5 Optics, Electronics and Energy

| | |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <i>T. Fujigaya, presiding</i> |
| 16E01IL 9:00 | Highly Conductive Polymers: A Key Material for Organic Electronics <u>Hideonori Okuzaki</u> (Japan)..... 174 |
| 16E03 9:40 | Conjugated block copolymers comprising of poly(arylenevinylene)s via ring-opening metathesis polymerization <u>Masaki Horie</u> , Hsin-Yu Chang and Shih-Ting Chiu (Taiwan)..... 175 |
| 16E04 10:00 | Influences of conjugated length on OFET performances and thin film structures of DPP derivatives <u>Yi-Fan Huang</u> , Shu-Ting Chang, San-Lien Wu and Chien-Lung Wang (Taiwan)..... 176 <i>H. Okuzak, presiding</i> |
| 16E05 10:20 | Large area graphene nanoribbons by wetting transparency-assisted block copolymer lithography for plasmonic devices <u>Reika Katsumata</u> , Maruthi Nagavalli Yogeesh, Helen Wong, Sunshine X Zhough, Stephen Sirard, Richard D Piner, Zilong Wu, Wei Li, Deji Akinwande and Christopher J Ellison (U.S.A.)..... 177 |
| 16E06 10:40 | Doped polymer pn homojunction prepared by spray deposition. <u>Katsuhiko Fujita</u> , Shin Sakiyama and Naoki Mizutani (Japan) 178 |
| 16E07 11:00 | Emerging optically active poly(flourene-alt-bithiophene) hetero-aggregate with helical polysilanes <u>Sang T. Duong</u> , Nor A. A. Rahim and Michiya Fujiki (Japan)..... 179 <i>I. Tomita, presiding</i> |
| 16E08 | Pentaazaphenalene Based π -Conjugated System |

| | |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11:20 | <u>Hiroyuki Watanabe</u> , Masataka Hirose, Kazuyoshi Tanaka, Kazuo Tanaka and Yoshiki Chujo (Japan) 180 |
| 16E09 11:40 | Synthesis and Optical Properties of Mechanofluorochromic Materials Based on Boron Ketoiminates <u>Kazumasa Suenaga</u> , Kazuo Tanaka and Yoshiki Chujo (Japan)..... 181 |
| 16E10 12:00 | Synthesis and Evaluation of Fused Azobenzene-Boron Complexes and Application to Polymer Materials <u>Masayuki Gon</u> , Kazuo Tanaka and Yoshiki Chujo (Japan) 182 |
| 16E11 12:20 | Copolymer-based polymer optical fiber for multimodal polarization-maintaining <u>Daichi Mizorogi</u> , Eisuke Nihei and Rei Furukawa (Japan) 183 |

Room F

Wednesday, December 14

S-4 Frontiers in Biomedical Polymers and Nanomedicines

| | |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <i>Y. Ohya, presiding</i> |
| 14F01IL 9:00 | Polymeric Nanoparticles for Targeted Drug Delivery <u>Wim E. Hennink</u> , Marina Talelli, Bart Crielard and Yang Shi (Netherlands)..... 184 |
| 14F03 9:40 | Artificial control of siRNA bioactivity based on the phase transition behavior of the conjugated polymeric molecule <u>Noor Faizah Che Harun</u> , Hiroyasu Takemoto and Nobuhiro Nishiyama (Japan)..... 185 |
| 14F04 10:00 | Photolytic protein aggregates for controlled release of active proteins <u>Satoshi Yamaguchi</u> , Akira Ishiwatari, Kosuke Minamihata, Akimitsu Okamoto and Teruyuki Nagamune (Japan) ... 186 <i>K. Yoshimoto, presiding</i> |
| 14F05IL 10:20 | Control of pDNA Packaging as Essential Process in Development of Gene Delivery System <u>Kensuke Osada</u> (Japan) 187 |
| 14F07 11:00 | 2-nitrobenzenesulfonamide groups as a chemical linker with enhanced extracellular stability and redox-sensitive cleavability for siRNA-conjugated polymer system <u>Chih Hao Huang</u> , Hiroyasu Takemoto, Takahiro Nomoto, Keishiro Tomoda, Makoto Matsui and Nobuhiro Nishiyama (Japan)..... 188 <i>S. Takeoka, presiding</i> |
| 14F08 11:20 | Transdermal Protein Delivery by Photothermal Effect of Gold Nanorods Coated on Polysaccharide-based Hydrogel <u>Aung Thu Haine</u> , Yuki Koga, Yuta Hashimoto, Taishi Higashi, Keiichi Motoyama, Hidetoshi Arima and Takuro Niidome (Japan) 189 |
| 14F09 11:40 | Transformable thermoresponsive polymer particles for regulated cellular interaction <u>Akihiko Kikuchi</u> , Takuma Suzuki, Takuya Matsuyama, Ryo Ishihara and Taka-Aki Asoh (Japan)..... 190 |
| 14F10 12:00 | Visible Light-Triggered Cell Detachment System Using Smart Fluoropolymer Coated Surface <u>Masamichi Nakayama</u> , Tomonori Kanno, Akihiko Kikuchi and Teruo Okano (Japan)..... 191 |
| 14F11 12:20 | Protecting-group-free Synthesis and Assay of Glycopolymer Ligands for Human and Avian Influenza Viruses <u>Tomonari Tanaka</u> , Yiting Zhou, Chihiro Tamoto, Yuuki Kurebayashi, Tadanobu Takahashi, Takashi Suzuki and Yoshiko Miura (Japan) 192 <i>Y. Iwasaki, presiding</i> |
| 14F12IL 14:00 | Drug Screening and Drug Delivery with Novel Polymers <u>Molly S. Shoichet</u> , Stephanie Fisher, Alexander Baker, Roger Tam, Laura Smith and Jennifer Logie (Canada). 193 |
| 14F14 14:40 | Long-blood bioavailability of nitroxide radical-containing nanoparticles affords effective treatment of ROS-associated skin inflammatory disorders <u>Chitho Feliciano</u> and Yukio Nagasaki (Japan) 194 <i>M. S. Shoichet, presiding</i> |
| 14F15 15:00 | EPR Domino: Tumor-selective vasodilation for improving EPR effect by a nitric-oxide-releasing liposome <u>Takuma Yoshikawa</u> , Yu Tahara, Akihiro Kishimura, Takeshi Mori and Yoshiki Katayama (Japan)..... 195 |
| 14F16 | Synthesis of aliphatic polycarbonates with a cyclic ether |

| | | |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 15:20 | moiety at the side chain and evaluation of the blood compatibility <u>Shunya Takaoka</u> , Masaru Tanaka and Kazuki Fukushima (Japan)..... | 196 |
| 14F17 15:40 | Hydrotropic graft polymers for controlled release of paclitaxel from solid dispersion <u>Tooru Ooya</u> and Motomi Kimura (Japan)..... | 197 |
| 14F18 16:00 | Metabolic expression of methacryloyl groups on cell surface carbohydrates <u>Yasuhiko Iwasaki</u> , Shunsuke Sugimoto and Takeshi Mori (Japan)..... | 198 |
| 14F19 16:20 | Redox Injectable Gels for Local Inflammation Treatments <u>Yukio Nagasaki</u> (Japan)..... | 199 |
| 14F20 16:40 | Ultra-Sensitive Detection System in 19F NMR for Bioactive Compounds Utilizing Fluorinated Cubic "Element-Blocks" <u>Kazuo Tanaka</u> , Takahiro Kakuta and Yoshiki Chujo (Japan)..... | 200 |
| 14F21 17:00 | Functional fluorescent nanosheets for bio/environmental imaging <u>Shinji Takeoka</u> (Japan)..... | 201 |
| 14F22IL 17:20 | Selection of DNA Aptamers Targeting to Cell Surface Proteins <u>Keitaro Yoshimoto</u> (Japan)..... | 202 |

Thursday, December 15

S-4 Frontiers in Biomedical Polymers and Nanomedicines

Y. Nagasaki, presiding

| | | |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 15F01IL 9:00 | Injectable Polymer Hydrogels for Drug-Induced Tissue Regeneration <u>Jing Cheng</u> , Ellen Heber-Katz and <u>Phillip B. Messersmith</u> (U.S.A.)..... | 203 |
| 15F03 9:40 | Effect of non-contacting sublayer of di-block polymer brush on cell behavior <u>Tomoyuki Azuma</u> , Yuji Teramura and Madoka Takai (Japan)..... | 204 |
| 15F04 10:00 | Analysis of dynamics of mechano-signal input for stem cells cultured on the micro-elastically patterned hydrogels <u>Hiroyuki Ebata</u> , Kousuke Hamano and Satoru Kidoaki (Japan)..... | 205 |
| 15F05IL 10:20 | Design and preclinical POC of xenogeneic small diameter acellular blood vessels <u>Tetsuji Yamaoka</u> (Japan)..... | 206 |
| 15F07 11:00 | Synthesis of Novel Biodegradable Surface-modifier with Phosphorylcholine and Catechol and Characterization of their Properties <u>Yucheng Zhang</u> , Tomoyasu Hirai, Yuji Higaki, Ken Kojio and Atsushi Takahara (Japan)..... | 207 |
| 15F08 11:20 | Study on the interfacial fine structure spontaneously formed at the blood-compatible polymer/water interface <u>Daiki Murakami</u> , Yoko Kitahara, Tomoya Ueda, Shingo Kobayashi and Masaru Tanaka (Japan)..... | 208 |
| 15F09 11:40 | Thermally Modulated Cell Separation using Thermoresponsive Micro Fibers <u>Kenichi Nagase</u> , Yoichi Sakurada, Masayuki Yamato, Naoya Takeda and Teruo Okano (Japan)..... | 209 |
| 15F10 12:00 | Immunization with antigenic peptides complexed with beta-glucan induces potent cytotoxic T-lymphocyte activity in combination with CpG-ODNs <u>Shinichi Mochizuki</u> , Hiromi Morishita and Kazuo Sakurai (Japan)..... | 210 |
| 15F11 12:20 | Effect of Anionic Polysaccharides of Polysaccharide Composite Films on Adhesion and Proliferation of Cells <u>Kazutoshi Iijima</u> , Izumi Kuriki, Yuna Tsuji, Rie Ninomiya, Takuya Iyoda, Fumio Fukai and Mineo Hashizume (Japan)..... | 211 |
| 15F12IL 14:00 | Polymeric Nano-Shielding of Transplanted Pancreatic Islets for the Prevention of Immune Reactions <u>Youngru Byun</u> , M. R. Haque, H. Park and S. J. Kim (Korea)..... | 212 |

| | | |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 15F14 14:40 | Zwitterionic interfaces at polymers for fouling resistance <u>Chun-Jen Huang</u> and Chia-Yu Liu (Taiwan)..... | 213 |
| 15F15 15:00 | A novel design of biointerface suppressing immune response on the substrate surface <u>Yutaka Ikeda</u> , Tomoki Yoshinari, Kouya Akasaka, Hirotochi Miyoshi and Yukio Nagasaki (Japan)..... | 214 |
| 15F16 15:20 | Temperature-dependent switching of growth factor binding on heparin-immobilized thermoresponsive surface for long-term stimulation of growth factor and recovery of cell sheets <u>Jun Kobayashi</u> , Yoshikatsu Akiyama, Masayuki Yamato and Teruo Okano (Japan)..... | 215 |
| 15F17 15:40 | Use of 3D-Arterial Models to Predict the In Vivo Behavior of Nanoparticles for Drug Delivery <u>Michiya Matsusaki</u> , Utako Yokoyama, Yoshihiro Ishikawa and Mitsuru Akashi (Japan)..... | 216 |
| 15F18 16:00 | A hidden relationship between determinants of mass spectrometry (MS)-based biopolymer analysis <u>Masayoshi Seike</u> , Satomi Kishimoto and Kana Kawasaki (Japan)..... | 217 |
| 15F19 16:20 | Nitric Oxide: A key player for novel anti-cancer immunotherapeutics <u>Yukio Nagasaki</u> and Shinpei Kudo (Japan)..... | 218 |
| 15F20IL 16:40 | Characterizing a polysaccharide/DNA complex and application to targeting delivery of therapeutic oligonucleotides <u>Kazuo Sakurai</u> and Shinichi Mochizuki (Japan)..... | 219 |

Friday, December 16

S-4 Frontiers in Biomedical Polymers and Nanomedicines

K. Osada, presiding

| | | |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 16F01IL 9:00 | <u>Eva Marie Harth</u> (U.S.A.)..... | 220 |
| 16F03 9:40 | Layered Sacran Hydrogels with Anisotropic Pore Structures Prepared by Simple Freeze-drying and Their Tissue Engineering Application <u>Saranyoo Sornkamnerd</u> , Kazuaki Matsumura, Kosuke Okeyoshi, Maiko K. Okajima and Tatsuo Kaneko (Japan)..... | 221 |
| 16F04 10:00 | Preparation of Dual Stimuli-Responsive Gel Particles as Smart Carriers for Intracellular Delivery <u>Akifumi Kawamura</u> , Ayaka Harada, Shunsuke Ueno and Takashi Miyata (Japan)..... | 222 |
| 16F05IL 10:20 | Smart Nanofiber Technology Holds Promise for Future Medicine E. Niiyama, K. Uto and <u>Mitsuhiro Ebara</u> (Japan)..... | 223 |
| 16F07 11:00 | Selective Protein Separation Using Glycopolymers Interface <u>Yoshiko Miura</u> , Hirokazu Seto, Yu Hoshino and Makoto Shibuya (Japan)..... | 224 |
| 16F08 11:20 | Design of Stimuli-responsive Polymers with Photo-crosslinkable Groups for Cell Culture <u>Takashi Miyata</u> , Takafumi Noguchi, Akana Matsuda, Kohei Okuma and Akifumi Kawamura (Japan)..... | 225 |
| 16F09 11:40 | Regulation of quorum-sensing-dependent antimicrobial production by self-assembled poloxamer micelles <u>Chigusa Okano</u> , Eri Nasuno, Morohoshi Tomohiro, Ken-ichi Iimura and Norihiro Kato (Japan)..... | 226 |
| 16F10 12:00 | Rapid and Sensitive MicroRNA Detection on a Surface-Functionalized Power-Free Microchip Utilizing UV-Induced Graft Polymerization <u>Ryo Ishihara</u> , Kanta Tanabe, Shoko Inomata, Yoshitaka Uchino, Kazuo Hosokawa, Mizuo Maeda and Akihiko Kikuchi (Japan)..... | 227 |
| 16F11 12:20 | Preparation and Evaluation of Controlled Release Behaviors of Protein-Loaded Polysaccharide Composite Films <u>Tomonori Shibata</u> , Kazutoshi Iijima and Mineo Hashizume (Japan)..... | 228 |
| 16F12IL | Biocompatible Polymeric Nanoparticles for Efficient | |

| | |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14:00 | Delivery of Therapeutic Materials <u>In-Kyu Park</u> (Korea)..... 229 |
| 16F14 14:40 | Gold-coated Silver Nanoplates for Enhanced Stability and Antibacterial Activity <u>Kaung Kyaw</u> , Hiroaki Ichimaru, Takayuki Kawagoe, Hitomi Kaneko, Ayaka Harada, Katsuhiko Ono, Hiroyasu Tsutsuki, Tomohiro Sawa and Takuro Niidome (Japan) 230 <i>M. Ebara, presiding</i> |
| 16F15 15:00 | Design of Synthetic Polymer Nanoparticles with Dynamic Functions as Enzymes <u>Yu Hoshino</u> , Masahiko Nakamoto and Yoshiko Miura (Japan) 231 |
| 16F16IL 15:20 | Biodegradable Injectable Polymer Systems Exhibiting Irreversible Gelation as Biomedical Materials <u>Yuichi Ohya</u> (Japan) 232 <i>M. Matsusaki, presiding</i> |
| 16F18 16:00 | Accumulation of dyes into DNA for efficient light-harvesting <u>Hiromu Kashida</u> , Ryoko Maruyama, Hayato Kawai, Yasuyuki Araki, Takehiko Wada and Hiroyuki Asanuma (Japan) 233 |
| 16F19 16:20 | Peptide-decorated cyto-compatible polymer nanoparticles for transportation in cells <u>Kazuhiko Ishihara</u> , Yuuki Tamagaki and Yuuki Inoue (Japan) 234 |
| 16F20 16:40 | PNA-conjugated magnetic nanocluster for real DNA pre-concentration <u>Metha Rutnakornpituk</u> , Sudarat Khadsai, Boonjira Rutnakornpituk, Maliwan Nakkuntod and Tirayut Vilaivan (Thailand) 235 |

Room G

Wednesday, December 14

S-3 Frontiers in Surface and Interface in Macromolecular Systems

| | |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <i>D. A Hoagland, presiding</i> |
| 14G01IL 9:00 | Organic Nanoparticles as Structure Directing Agent for Block Copolymer Ordering <u>Joona Bang</u> , H. S. Wang, J. Kim and A. Khan (Korea) . 236 |
| 14G03 9:40 | Thermodynamic Self-Assembly of 2-D MOF/COF Nanosheets Constructed on Solid Substrates <u>Masashi Kunitake</u> , Gento Matsuo, Yuriko Uchiyama and Satoshi Watanabe (Japan) 237 |
| 14G04 10:00 | Microgel particles at the oil-water interfaces <u>Zifu Li</u> (China)..... 238 <i>J. Bang, presiding</i> |
| 14G05 10:20 | Preparation of Polyion Complex (PIC) Micelles and Vesicles from Mixture of pH-responsive Anionic Unime Micelles and Biocompatible Cationic Diblock Copolymers <u>Shin-ichi Yusa</u> , Sayaka Ohno and Kazuhiko Ishihara (Japan) 239 |
| 14G06 10:40 | Multi-Armed Amphiphilic Cyclotetrasiloxanes as Versatile Building Blocks for Functional Assemblies <u>Huie Zhu</u> , Buket Akkus, Yida Liu, Yu Gao, Shunsuke Yamamoto, Jun Matsui, Tokuji Miyashita and Masaya Mitsuishi (Japan) 240 |
| 14G07 11:00 | Three-Dimensional Block Copolymer Nanostructures by the Solvent-Annealing-Induced Wetting in Anodic Aluminum Oxide Templates <u>Jiun-Tai Chen</u> (Taiwan)..... 241 <i>T. Hayakawa, presiding</i> |
| 14G08 11:20 | Electrostatic Assembly of Polymer-Nanoparticle Composite Films at Liquid-Liquid Interfaces <u>David A Hoagland</u> , Tao Feng and Thomas P Russell (U.S.A.) 242 |
| 14G09IL 11:40 | Nano- and Micro-patterning by Photoswitching Surface Energy <u>Christopher J. Ellison</u> , Michael J. Maher, Christopher M. Bates, Gregory Blachut, Matthew C. Carlson, Jeffrey L. Self, Dustin W. Janes, William J. Durand, Austin P. Lane, Talha A. Arshad, Chae Bin Kim, Nathan A. PriscoJoshua M. Katzenstein, Roger T. Bonnecaze and C. Grant Willson (U.S.A.) 243 <i>J. Chen, presiding</i> |

| | |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14G12IL 14:00 | Block Copolymer Nanopatterning on Graphene Based Substrates <u>Sang Ouk Kim</u> (Korea)..... 244 |
| 14G14 14:40 | Thermo-responsive Optical Properties of Ionogels Composed of Polyurethane and Hydrophobic Ionic Liquids <u>Tomoya Sato</u> , Chihiro Urata, Matt W England, Liming Wang, Hiroshi Kakiuchida and Atsushi Hozumi (Japan) 245 |
| 14G15 15:00 | A Self-Oscillating Hydrogel System Driven by Light Shunsuke Nakamura, <u>Takayuki Narita</u> and Yushi Oishi (Japan)..... 246 <i>C. J. Ellison, presiding</i> |
| 14G16 15:20 | Enhanced Photocatalytic Properties of Graphene Oxide-Platinum Nanoparticle Complex Crosslinked by Peptides <u>Tsukasa Mizutaru</u> , Galina Marzun, Sebastian Kohsakovski, Stephan Barcikowski and Yohei Yamamoto (Japan)..... 247 |
| 14G17 15:40 | Water and Its interactions with synthetic hydrophobic materials <u>Thomas J McCarthy</u> , Pei Bian, Liming Wang and Yan Wang (U.S.A.) 248 |
| 14G18 16:00 | Enzymatic Synthesis and Characterization of Cellulosic Hydrogels with Crystalline Nanoribbon Networks <u>Yuuki Hata</u> , Toshiki Sawada, Takamasa Sakai and Takeshi Serizawa (Japan)..... 249 |
| 14G19 16:20 | Understanding of nano-ordered interaction force leads to protein adsorption behavior on the polymer brush surfaces <u>Yuuki Inoue</u> , Sho Sakata and Kazuhiko Ishihara (Japan) 250 <i>S. Kim, presiding</i> |
| 14G20 16:40 | Surface Modification of Glass Slide Using Inorganic-Organic Hybrid Hyperbranched-Linear Polymer Based on Poly(Siloxysilane) Hyperbranched Macroinitiator and Poly(N-isopropylacrylamide), and their Application to Cell Cultivation <u>Renaud T. Gillet</u> , Yuta Nabae, Teruaki Hayakawa and Masa-aki Kakimoto (Japan)..... 251 |
| 14G21 17:00 | Supramolecular Asymmetric Photochemistry of Anthracene-2-carboxylete and Anthraxene-2,6-dicarboxylate mediated by Human Serum Albumin Sota Toyooka, Mitsuru Okugi, Wijak Yospanya, Masaki Nishijima, Yasuyuki Araki, Seiji Sakamoto, Yoshihisa Inoue and <u>Takehiko Wada</u> (Japan) 252 |
| 14G22IL 17:20 | Nanostructured Antimicrobial-But-Cytocompatible, ABC-polymers <u>Kenneth J. Wynne</u> , Sithara Nair, Olga Zolotarskaya, C. J. Ehrhardt, D. E. Ohman, Vamsi Yadavalli and Congzhu Wang (U.S.A.) 253 |

Thursday, December 15

S-3 Frontiers in Surface and Interface in Macromolecular Systems

| | |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <i>K. Ijiro, presiding</i> |
| 15G01IL 9:00 | Azobenzene-modified Poly(N-isopropylacrylamide) Nanogels: Docile Responsive Objects or Active Materials? Xuewei Zhang, Pierre-Louis Alliot and <u>Françoise M. Winnik</u> (Canada) 254 |
| 15G03 9:40 | Development of Sugar Chain-targeted Molecularly Imprinted Polymer-based Semiconductor Biosensor for Cancer Cell Detection <u>Shoichi Nishitani</u> , Taira Kajisa and Toshiya Sakata (Japan) 255 <i>Z. Yang, presiding</i> |
| 15G04 10:00 | DNA Brush-Directed Self-Assembly of Gold Nanorods into Vertically Aligned Arrays <u>Kuniharu Ijiro</u> , Satoshi Nakamura, Hideyuki Mitomo, Yasutaka Matsuo and Kenichi Niikura (Japan) 256 |
| 15G05 10:20 | Surface modification on PDMS graft copolyimide membrane by using nanosheets composed of poly(ethylene imine) for CO ₂ separation <u>Phiphat Charatsrisakun</u> , Kana Ando, Yosuke Okamura and Yu Nagase (Japan) 257 |
| 15G06 10:40 | Surface modification of PDMS graft copolyimide membrane with aromatic polymers containing imidazolium group to improve gas separation property |

| | | | |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15G07 | <u>Botakoz Suleimenova</u> , Tatsuma Oda, Chihiro Umeda, Yosuke Okamura and Yu Nagase (Japan)..... 258 | 16G07 | <u>An-Tsung Kuo</u> , Wataru Shinoda and SuSumu Okazaki (Japan)..... 274 |
| 11:00 | Fabrication of Prussian Blue nanomembranes for gas separation | 11:00 | Fully Liquid-Crystalline ABA Triblock Copolymer: Structure of Bulk and Thin Film State |
| | <u>Keisuke Kanakogi</u> , Shigenori Fujikawa and Nobuo Kimizuka (Japan)..... 259 | | <u>Ryohei Ishige</u> , Noboru Ohta, Hiroki Ogawa, Masatoshi Tokita and Atsushi Takahara (Japan)..... 275 |
| | <i>Y. Oda, presiding</i> | | <i>K. Ariga, presiding</i> |
| 15G08 | Preferential CO ₂ permeation of polymeric membranes and the mechanism | 16G08 | Characterization of Molecular Aggregation Structure for Novel Polyamide containing POSS and Evaluation of Its Scratch Properties |
| 11:20 | | 11:20 | |
| | <u>Ikuo Taniguchi</u> (Japan) 260 | | <u>Yusuke Nagae</u> , Tomoyuki Ohishi, Makoto Kido, Tomoyasu Hirai and Atsushi Takahara (Japan)..... 276 |
| 15G09IL | Janus Composites and Interfacial Engineering | 16G09IL | New Strategies for the Photoalignment of Liquid Crystalline Polymers |
| 11:40 | | 11:40 | |
| | <u>Zhenzhong Yang</u> (China) 261 | | <u>Takahiro Seki</u> (Japan)..... 277 |
| | <i>S. Sasaki, presiding</i> | | <i>M. Takai, presiding</i> |
| 15G12IL | The Effects of Thin Film Confinement on the Structure, Dynamics, Stresses, and Transport in Thin Ionomer Films | 16G12IL | Hang-Operating Nanotechnology: Interfacial Magic for Molecular Manipulation |
| 14:00 | | 14:00 | |
| | Bradley Frieberg, Jacob Tarver, Cheol Jeong, Sangcheol Kim, Joe Dura, Madhusudan Tyagi, Edwin Chan, Christopher Stafford, Tsung-Han Tsai, Wen Xu Zhang, Bryan Coughlin and <u>Christopher Soles</u> (U.S.A.)..... 262 | | <u>Katsuhiko Ariga</u> (Japan) 278 |
| 15G14 | Formation of higher-order structures in composite membranes of polymer-brush-afforded nanoparticles and ionic liquid | 16G14 | Effect of different polymer-substrate interactions on the relationship between the glass transition temperature and self-diffusion coefficient of unentangled polymer thin films |
| 14:40 | | 14:40 | |
| | <u>Yohei Nakanishi</u> , Ryohei Ishige, Hiroki Ogawa, Kohji Ohno, Takashi Morinaga, Takaya Sato, Toshiji Kanaya and Yoshinobu Tsujii (Japan)..... 263 | | <u>Reika Katsumata</u> , Austin R Dulaney, Chae Bin Kim and Christopher J Ellison (U.S.A.)..... 279 |
| | <i>C. Soles, presiding</i> | | <i>H. Matsumo, presiding</i> |
| 15G15 | Development of advanced reverse osmosis membranes | 16G15 | Durable and Self-healing Anti-adhesive Coatings Prepared From Liquid-Infused Organogels |
| 15:00 | | 15:00 | |
| | Masahiro Kimura, Hiroki Minehara, Harutoki Shimura, Jun Okabe, <u>Takafumi Ogawa</u> and Takao Sasaki (Japan)..... 264 | | <u>Liming Wang</u> , Chihiro Urata, Tomoya Sato, Matt W England and Atsushi Hozumi (Japan)..... 280 |
| 15G16 | Calculation of the Diffusion Coefficient D and Solubility S in Polymer Films | 16G16 | Functionalization of PI Film Surfaces Utilizing Hot Press Techniques and Hydroxyapatite Coating Thereon |
| 15:20 | | 15:20 | |
| | <u>Holger Norenberg</u> (U.K.) 265 | | <u>Kohei Takada</u> , Kazutoshi Iijima and Mineo Hashizume (Japan)..... 281 |
| 15G17 | Transcrystallization Behavior at the Interface of Carbon Fiber and Polymer Composites under a Temperature Gradient | 16G17 | Surface Wettability Controllable Polyimides by UV Light Irradiation |
| 15:40 | | 15:40 | |
| | <u>Yuezhen Bin</u> , Shengnan Zhang, Xiaoyu Yan and Ran Shi (China)..... 266 | | <u>Yusuke Tsuda</u> (Japan) 282 |
| | <i>R. Ishige, presiding</i> | | <i>R. Ishige, presiding</i> |
| 15G18 | Crystallization kinetics of linear polyesters in spin-coating film-forming processes | 16G18 | Adhesion of Poly(vinyl pyridine) Brushes by means of Hydrogen Bonding Interaction |
| 16:00 | | 16:00 | |
| | <u>Sono Sasaki</u> , Shun Miyamoto, Jinkyu Park, Hossain Md. Amran, Mami Goda, Shinichi Sakurai, Hiroyasu Masunaga, Takaaki Hikima and Masaki Takata (Japan)..... 267 | | <u>Hayato Yoshioka</u> , Chiharu Izumi and Motoyasu Kobayashi (Japan)..... 283 |
| | <i>K. Ohno, presiding</i> | | |
| 15G19 | Electrostatic Interaction and Chain Conformation of Poly(sulfobetaine methacrylate) Brushes at Brush/Water Interface | 16G19 | Surface Modification of Cellulose Nanofiber for Superhydrophobic Surfaces |
| 16:20 | | 16:20 | |
| | <u>Yuji Higaki</u> , Yoshihiro Inutsuka, Norifumi L Yamada, Yuka Ikemoto and Atsushi Takahara (Japan)..... 268 | | <u>Md Mahbulul Bashar</u> , Huie Zhu, Shunsuke Yamamoto, Tokuji Miyashita and Masaya Mitsuishi (Japan) 284 |
| 15G20IL | Surface and Interfacial Interactions Control Assembly of Anisotropic Nanoparticles in Polymer Nanocomposites | 16G20 | Mechanical Properties-based Regulation of Cellular Behaviors on Thin Film Surfaces |
| 16:40 | | 16:40 | |
| | <u>Russell J. Composto</u> (U.S.A.) 269 | | <u>Hisao Matsumo</u> and Keiji Tanaka (Japan) 285 |

Friday, December 16

S-3 Frontiers in Surface and Interface in Macromolecular Systems

| | |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <i>T. Seki, presiding</i> |
| 16G01IL | Photo-Carrier Generation and Molecular Dynamics in Thin Poly (3-alkylthiophene) Films |
| 9:00 | |
| | <u>Daisuke Kawaguchi</u> and Keiji Tanaka (Japan)..... 270 |
| 16G03 | Crystallization of ambipolar quinoidal quaterthiophene derivatives at air/liquid and liquid/liquid interfaces |
| 9:40 | |
| | <u>Satoshi Watanabe</u> , Takahisa Ohta, Tetsuya Aoyama, Jean-Charles Ribierre, Masanobu Uchiyama, Chihaya Adachi and Masashi Kunitake (Japan)..... 271 |
| | <i>D. Kawaguchi, presiding</i> |
| 16G04 | Preparation of Polymer Brushes Consisting of Methacrylate Derivatives with Well-Controlled Stereoregularity and Characterization of Their Molecular Aggregation State |
| 10:00 | |
| | <u>Tomoki Kato</u> , Masanao Sato, Tomoyasu Hirai and Atsushi Takahara (Japan)..... 272 |
| 16G05 | Force Curve Measurement of Polyzwitterion Brushes Containing Inverse Phosphorylcholine Group in Water |
| 10:20 | |
| | <u>Motoyasu Kobayashi</u> , Ayano Yamazaki and Yusuke Imamura (Japan)..... 273 |
| 16G06 | All-atom and coarse-grained molecular simulations for perfluorosulfonic acid polymer membranes |
| 10:40 | |

Room P

POSTER SESSIONS SCHEDULE

- 9:00 - 12:30 Mounting Posters
 12:30 - 13:15 Obligation time for Group "a"
 13:15 - 14:00 Obligation time for Group "b"
 16:30 - 17:00 Removing Posters

● Notes:

For the assignment to Group "a" or "b", refer to the last letter of the poster ID code.
 (e.g.) 14P-S4-001a: Dec.14, Selected Topic S4, Paper #001, Group "a"

Wednesday, December 14

S-4 Frontiers in Biomedical Polymers and Nanomedicines

| | | | |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14P-S4-001a | Pulsatile drugs release from electrospun poly(ethylene oxide) and sodium alginate blend nanofibres <u>Abdessamad Kaassis</u> , Neil Young, Naoko Sano, Hamid A. Merchant, Deng-Guang Yu, Nicholas P Chatterton and Gareth R Williams (U.K.) 286 | 14P-S4-014b | Correlation between blood-compatibility and in-plane phase separation phenomenon at the biocompatible polymer/water interface. <u>Yoko Kitahara</u> , Daiki Murakami, Shingo Kobayashi and Masaru Tanaka (Japan) 299 |
| 14P-S4-002b | Antioxidant and adsorption properties of bio-inspired phenolic polymers: a comparative study of catechol and gallol groups <u>Hiroataka Ejima</u> , Kan Zhan and Naoko Yoshie (Japan)287 | 14P-S4-015a | Evaluation of pH-responsive polyion complex micelles of PEG- <i>b</i> -poly(ethylacrylic acid) <u>Yusuke Onuma</u> , Ryo Ishihara, Glen S. Kwon and Akihiko Kikuchi (Japan) 300 |
| 14P-S4-003a | Preparation of the Micelles Modified with Polysaccharide for Enhancement of Biological Compatibility <u>Mamiko Ishida</u> , Shinichi Mochizuki and Kazuo Sakurai (Japan) 288 | 14P-S4-016b | Evaluation of interaction between PEG modified b-glucan and poly dA <u>Daiki Ito</u> , Shinichi Mochizuki and Kazuo Sakurai (Japan)..... 301 |
| 14P-S4-004b | Intravital Assessment of Drug Delivery Activation through Hoechst-Loaded Polymeric Micelles <u>Shaoyi Chen</u> , Stelios Florinas, Kazuko Toh, Yu Matsumoto, James Christie, Kazunori Kataoka and Horacio Cabral (Japan) 289 | 14P-S4-017a | Development of tumor-specific drug delivery system using hyaluronic acid <u>Atsushi Moritaka</u> , Kazuo Sakurai and Shinichi Mochizuki (Japan) 302 |
| 14P-S4-005a | Analysis of beta-glucan receptor for the development of antisense DNA delivery system <u>Nobuaki Fujiwara</u> , Hiroto Izumi, Shinichi Mochizuki, Shohei Nagao, Yasuo Morimoto and Kazuo Sakurai (Japan) 290 | 14P-S4-018b | Preparation of Stimuli-Responsive Gel Capsules via Miniemulsion Periphery RAFT Polymerization and Their Drug Release Behavior <u>Hiroshi Nakaura</u> , Akifumi Kawamura and Takashi Miyata (Japan)..... 303 |
| 14P-S4-006b | A glucose-installed sub-50 nm-sized siRNA nanocarrier using unimer polyion complex for targeting cancer stem-like cells <u>Yu Yi</u> , Hyun Jin Kim, Kanjiro Miyata and Kazunori Kataoka (Japan) 291 | 14P-S4-019a | Design of polyplex micelles with pH- and ATP-responsive cross-linking for efficient gene delivery <u>Naoto Yoshinaga</u> , Mitsuru Naito, Satoshi Uchida, Horacio Cabral, Kensuke Osada and Kazunori Kataoka (Japan)..... 304 |
| 14P-S4-007a | Development of biodegradable injectable polymer systems exhibiting irreversible gelation in response to temperature <u>Keisuke Kawahara</u> , Kenta Inamoto, Hiroki Takai, Yasuyuki Yoshida, Kazuyuki Takata, Akinori Kuzuya and Yuichi Ohya (Japan) 292 | 14P-S4-020b | Design of Biomolecularly Stimuli-responsive Gel Capsules with Carbohydrate-lectin Complex Crosslinks <u>Kota Tanaka</u> , Akifumi Kawamura and Takashi Miyata (Japan) 305 |
| 14P-S4-008b | Fabrication of hierarchical biodegradable tubular structures as scaffolds for regenerative blood vessels by electrospinning <u>Kazuki Nishimura</u> , Akinori Kuzuya, Atsushi Mahara, Tetsuji Yamaoka and Yuichi Ohya (Japan) 293 | 14P-S4-021a | Over-1000 nm Near-infrared Luminescent Polymeric Micelles for in vivo imaging <u>Masao Kamimura</u> and Kohei Soga (Japan)..... 306 |
| 14P-S4-009a | Effect of spacer structures on biocompatibility of polyimides containing phosphorylcholine group <u>Haruki Oka</u> , Mari Ogino, Ryo Matsunaga, Yosuke Okamura and Yu Nagase (Japan) 294 | 14P-S4-022b | Control of Calcium Phosphate Mineralization in Simulated Body Fluids Using Polymer Nanoparticles Presenting Carboxylic Acid Groups <u>Kanae Komaru</u> , Kazutoshi Iijima, Yu Hoshino, Yoshiko Miura and Mineo Hashizume (Japan)..... 307 |
| 14P-S4-010b | Preparation of water-soluble complex composed of thermo-responsive and biocompatible diblock copolymer and fullerene <u>Junki Yano</u> , Shin-ichi Yusa and Kazuhiko Ishihara (Japan) 295 | 14P-S4-023a | Development of phosphatidylserine containing nanoparticle suppression inflammation <u>Kazuki Yuzuriha</u> , Takeo Masafumi, Md Hosain Zahangir, Khadijah , Ayaka Yoshida, Akihiro Kishimura, Takeshi Mori and Yoshiki Katayama (Japan)..... 308 |
| 14P-S4-011a | Efficient delivery of nucleic acid medicines using pH responsive DDS carrier <u>Shuto Tokunaga</u> , Shinichi Mochizuki, Noriko Miyamoto and Kazuo Sakurai (Japan) 296 | 14P-S4-024b | Analysis of dynamic cellular behavior of tumor cells on blood compatible polymers <u>Fumihiro Aratsu</u> , Meng-Yu Tsai, Shingo Kobayashi and Masaru Tanaka (Japan) 309 |
| 14P-S4-012b | Immunity control by crosslinked-nanogel consist of CpG-ODN and beta-glucan <u>Noriko Miyamoto</u> , Shinichi Mochizuki and Kazuo Sakurai (Japan) 297 | 14P-S4-025a | Development of antigenic protein delivery system to immune cells using schizophyllan <u>Kouhei Fukumitsu</u> , Kazuo Sakurai and Shinichi Mochizuki (Japan)..... 310 |
| 14P-S4-013a | Development of Staurosporine/Epirubicin-loaded Micelles for Cooperative Synergistic Treatment against Cancer Cells and Cancer Stem-like Cells | 14P-S4-026b | Loading of Drugs within Polypeptide Hydrogels via Molecular Imprinting and Their Controlled Release <u>Kazuya Matsumoto</u> , Yoshinori Ito, Akifumi Kawamura and Takashi Miyata (Japan) 311 |
| | | 14P-S4-027a | Enzyme-loaded polyion complex vesicles as intravital reactors functioning in vivo in the circulating blood <u>Daiki Sueyoshi</u> , Yasutaka Anraku and Kazunori Kataoka (Japan) 312 |
| | | 14P-S4-028b | Structural and biological evaluation of the complexes fabricated by fusion of magnetic liposomes with glutathione-loaded liposomes <u>Mina Sakuragi</u> , Risako Seguchi, Takuya Zushi, Kazuaki Taguchi and Katsuki Kusakabe (Japan) 313 |
| | | 14P-S4-029a | Development and characterization of polylactic acid thin-films loaded with Iron nanoparticles for magnetic drug targeting <u>Hironobu Murayama</u> , Mina Sakuragi and Katuki Kusakabe (Japan) 314 |
| | | 14P-S4-030b | Binding affinity of poly(ethylene phosphate) nanoparticles to bone <u>Yuya Hirano</u> , Hiromi Hongou and Yasuhiko Iwasaki |

| | | | |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14P-S4-031a | (Japan)..... 315 Zwitterion-protected silver nano clusters having antibacterial activity and biocompatibility <u>Sangsuwan Arunee</u> , Hideya Kawasaki, Yoshinobu Matsumura and Yasuhiko Iwasaki (Japan)..... 316 | | |
| 14P-S4-032b | Preparation of stereocomplexed polylactic acid nanocapsules with controlled release properties <u>Yui Sakamoto</u> , Takaichi Watanabe and Tsutomu Ono (Japan)..... 317 | | |
| 14P-S4-033a | Fluorophore labeled polymer conjugates for ratiometric detection of protein kinase activity <u>Takanobu Nobori</u> , Shujiro Shiosaki, Akihiro Kishimura, Takeshi Mori and Yoshiaki Katayama (Japan)..... 318 | | |
| 14P-S4-034b | Multifunctional tannic acid and lignin films on collagen hydrogel for biomedical applications <u>Daheui Choi</u> , Jiwoong Heo, Jinkee Hong and Michiya Matsusaki (Korea.) 319 | | |
| 14P-S4-035a | Design of Clickable Thermo-responsive Polymers for the Enrichment of Antigen by Thermal Precipitation <u>Naoto Nomura</u> , Akihiko Kikuchi and Mitsuhiro Ebara (Japan) 320 | | |
| 14P-S4-036b | Design of Apoptotic Cell Membrane Mimetic Polymers for Anti-inflammatory Therapy <u>Yasuhiro Nakagawa</u> , Atsuhiko Saitou, Takao Aoyagi and Mitsuhiro Ebara (Japan)..... 321 | | |
| 14P-S4-037a | Fragment Molecular Orbital-based Parameterizing Procedure for Dissipative Particle Dynamics Simulations <u>Koji Okuwaki</u> , Hideo Doi, Yuji Mochizuki, Taku Ozawa and Kenji Yasuoka (Japan)..... 322 | | |
| 14P-S4-038b | Dissipative Particle Dynamics Simulations for Lipid Membrane using Fragment molecular orbital-based Effective Parameters <u>Hideo Doi</u> , Koji Okuwaki, Yuji Mochizuki, Taku Ozawa and Kenji Yasuoka (Japan)..... 323 | | |
| 14P-S4-039a | Synthesis and characterization of biodegradable and thermoresponsive hydrogel having ester groups in the polymer backbone prepared by ring-opening radical polymerization <u>Syuuhei Komatsu</u> , Taka-Aki Asoh, Ryo Ishihara and Akihiko Kikuchi (Japan)..... 324 | | |
| 14P-S4-040b | Design of self-assembling peptide nanofibers for antigen delivery carriers. <u>Tomonori Waku</u> , Tadato Shibuya, Takehiro Deromachi, Kiminori Sakuta, Shigeru Kunugi and Naoki Tanaka (Japan) 325 | | |
| | S-7 Polymers in Green Chemistry | | |
| 14P-S7-043a | Stereocomplex formation in the copolymer networks composed of 4-armed star-shaped oligomers of L-lactide, D-lactide and ϵ -caprolactone <u>Ayaka Shibata</u> , Shohei Matsuda, Toshiaki Shimasaki, Naozumi Teramoto and Mitsuhiro Shibata (Japan)... 326 | | |
| 14P-S7-044b | Dynamic Covalent Exchange Reactions of Diaryl Diselenide-Containing Linear and Cross-Linked Polyurethanes <u>Nao Suzuki</u> , Akira Takahashi, Raita Goseki and Hideyuki Otsuka (Japan) 327 | | |
| 14P-S7-045a | Facile Degradability of Epoxy Resins Prepared from Disulfide-containing Diepoxide Monomer <u>Akira Takahashi</u> , Tomoyuki Ohishi, Raita Goseki and Hideyuki Otsuka (Japan) 328 | | |
| 14P-S7-046b | Synthesis and characterization of polyamides derived from D-glucaric acid <u>Yuxin Wu</u> , Yukiko Enomoto-Rogers, Hisaharu Masaki, Akio Takemura and Tadahisa Iwata (Japan)..... 329 | | |
| 14P-S7-047a | Dissolution of cedar soda lignin with ionic liquid/water mixtures under mild condition <u>Takashi Akiba</u> , Mizuki Shimo, Akiko Tsurumaki and Hiroyuki Ohno (Japan) 330 | | |
| 14P-S7-048b | Design of functional ionic liquids to show phase-separation with water and to dissolve cellulose <u>Daiki Sato</u> , Mitsuru Abe, Kosuke Kuroda and Hiroyuki Ohno (Japan) 331 | | |
| 14P-S7-049a | Effect of Curing Temperature on the Properties of Flexible Epoxy Foam Derived from Epoxidized Soybean oil <u>Narita Khundamri</u> and Varaporn Tanrattanakul (Thailand)..... 332 | 14P-S7-050b | Effect of zinc oxide content on morphology and tensile properties of PLA foam prepared by compression molding <u>Pasuta Sungsee</u> and Varaporn Tanrattanakul (Thailand) 333 |
| | | 14P-S7-051a | Synthesis and Characterization of Cyclic Carbonate Telechelic Poly(lactic acid) <u>Ruedee Jaratrotkamjorn</u> , Arnaud Nourry, Pamela Pasetto, Varaporn Tanrattanakul and Jean-Francois Pilard (Thailand)..... 334 |
| | | 14P-S7-052b | Molecular Dynamics Study of Cellulose and Chitin Crystals in Ionic Liquids <u>Takuya Uto</u> , Kazuya Yamamoto and Jun-ichi Kadokawa (Japan)..... 335 |
| | | 14P-S7-053a | Preparation and Gel Formation of Amylose-grafted Chitin Nanofibers <u>Naomichi Egashira</u> , Kazuya Yamamoto and Jun-ichi Kadokawa (Japan) 336 |
| | | 14P-S7-054b | Chemoenzymatic Synthesis of Amylose-grafted Poly(glutamic Acid) <u>Takuya Shouji</u> , Kazuya Yamamoto and Jun-ichi Kadokawa (Japan)..... 337 |
| | | 14P-S7-055a | Surface functionalization of cellulose nano-fiber derived from bamboo and thereby one-pot synthesis of functional nano-composite <u>Fuma Koga</u> , Takayuki Tsukegi and Haruo Nishida (Japan)..... 338 |
| | | 14P-S7-056b | Preparation and Gel Formation of Poly(2-oxazoline)-grafted Chitin Nanofibers <u>Junpei Yoshida</u> , Kazuya Yamamoto and Jun-ichi Kadokawa (Japan) 339 |
| | | 14P-S7-057a | Precision analysis of Biomass Pyrolysis Properties <u>Yuki Kawasaki</u> and Haruo Nishida (Japan) 340 |
| | | 14P-S7-058b | Synthesis and characterization of regioselectively substituted curdlan derivatives <u>Chih-Ying Chien</u> , Yukiko Enomoto-Rogers, Akio Takemura and Tadahisa Iwata (Japan) 341 |
| | | 14P-S7-059a | Biomimetic Synthesis of Colloidal Inorganic/Polymer Hybrid Liquid Crystals <u>Masanari Nakayama</u> , Satoshi Kajiyama, Tatsuya Nishimura, Akihito Kumamoto, Yuichi Ikuhara and Takashi Kato (Japan) 342 |
| | | 14P-S7-060b | Plasticization of chitosan with acyl substitution and their properties. <u>Takahiro Danjo</u> , Yukiko Rogers and Tadahisa Iwata (Japan)..... 343 |
| | | 14P-S7-061a | Synthesis of Catechol-Containing Vinyl Polymers via Living Radical Polymerization of Vinylcatechol Derivatives from Natural Resources <u>Hisaaki Takeshima</u> , Kotaro Satoh and Masami Kamigaito (Japan) 344 |
| | | 14P-S7-062b | The Structure and CO ₂ Separation Property of Ionic Liquid/Sulfonated Polyimide Composite Membranes <u>Akika Ito</u> , Teturou Yoshioka, Akihiro Yoshida, Xiang Li, Tomohiro Yasuda, Kazukiyo Nagai, Mitsuhiro Shibayama and Masayoshi Watanabe (Japan)..... 345 |
| | | 14P-S7-063a | Efficient Fabrication of Chitin Nanofiber Composites with Commodity Plastics by Means of Surface Modification <u>Keisho Imori</u> , Kazuya Yamamoto and Jun-ichi Kadokawa (Japan)..... 346 |
| | | 14P-S7-064b | Development of natural phenol-based functional epoxy polymers <u>Shinji Kanehashi</u> , Kenji Ogino and Tetsuo Miyakoshi (Japan)..... 347 |
| | | 14P-S7-065a | Controlled/Living Radical Polymerization of exo-Methylene Cyclic Carbonate Derived from Glycerol and Carbon Dioxide <u>Teigo Okoshi</u> , Kotaro Satoh and Masami Kamigaito (Japan)..... 348 |
| | | 14P-S7-066b | Cationic Polymerization of Alicyclic Conjugated Dienes with a Reactive exo-Methylene Group Derived from Natural α,β -Unsaturated Cyclic Carbonyl Compounds <u>Takenori Nishida</u> , Kotaro Satoh and Masami Kamigaito |

| | | | |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14P-S7-067a | (Japan)..... 349 Development of Diol-type Monomers Bearing Rigid Skeletons from myo-Inositol <u>Arata Yoshida</u> , Kohei Kaiba, Naoki Ishikura, Hidemichi Yoshinaga and Atsushi Sudo (Japan)..... 350 | 14P-S7-084b | (Japan)..... 366 Preparation and Characterization of Bio-based Acrylic Resin from Non-edible Biomass <u>Yasumasa Takenaka</u> and Hideki Abe (Japan)..... 367 |
| 14P-S7-068b | Cyclopolymerization of Dimethacrylate with Adamantane-Like Core Derived from myo-Inositol <u>Takuya Takahashi</u> , kyohei Nishiyama and Atsushi Sudo (Japan)..... 351 | 14P-S7-085a | Preparation of 'powder' cellulose nanowhisker for filler applications <u>Toshihiko Arita</u> and Jun Araki (Japan)..... 368 |
| 14P-S7-069a | Accelerated Lipid Accumulation in Microalgae <i>Chlamydomonas debaryana</i> by Spherical Aggregation in Ca ²⁺ -alginate Hydrogel <u>Toru Yoshitomi</u> , Masakazu Toyoshima, Naoki Sato and Keitaro Yoshimoto (Japan)..... 352 | 14P-S7-086b | Preparation of cellulose films with thermoplastic property via ionic liquid gelation <u>Akihiko Takada</u> , Yasuhiro Habu, Kazuya Yamamoto and Jun-ichi Kadokawa (Japan)..... 369 |
| 14P-S7-070b | Cationic Polymerization and Radical Copolymerization of Naturally-Occurring Sabinene <u>Tomonari Nagai</u> , Kotaro Satoh and Masami Kamigaito (Japan)..... 353 | 14P-S7-087a | Preparation of biodegradable polyester P(3HB) and its copolymer films by stretching after holding at cold crystallization temperature <u>Toshihisa Tanaka</u> , Yumiko Takayama, Motomu Nishijo, Keigo Matsukawa and Tadahisa Iwata (Japan)..... 370 |
| 14P-S7-071a | Random copolymerization of lactones and hydroxyacid bioaromatics using one-pot ring opening polymerization (ROP) polycondensation method <u>Ha T. H. Nguyen</u> , Gabriel Short, Pengxu Qi and Stephen A. Miller (U.S.A.)..... 354 | 14P-S7-088b | Development of manufacturing process for bio-mass derived phenol <u>Takanobu Masuda</u> , Hiroyuki Miyuchi, Kazumi Hiraga and Masayuki Inui (Japan)..... 371 |
| 14P-S7-072b | Design and synthesis of cellulose based thermoplastics for application to CFRP <u>Rina Hoshino</u> , Makoto Yamaguchi, Ryo Ito, Ryohei Kakuchi, Kenji Takada, Takatsugu Endo, Tomoyuki Ikai, Kazuaki Ninomiya, Katsuhiko Maeda and Kenji Takahashi (Japan)..... 355 | 14P-S7-089a | Enhanced photodegradability of LDPE filled with OTS-modified TiO ₂ <u>Tawan Sooknoi</u> , Preeyaporn Mahawanjam, Surapong Piamsuwansiri, Oranut Pongtanapaisan, Suparat Rukchonlatee and Chonlada Ritvirulh (Thailand) 372 |
| 14P-S7-073a | Transesterification Reactions of Cellulose in a Mixture of Ionic Liquid and Dimethyl Sulfoxide <u>Shuhei Nomura</u> , Makoto Yamaguchi, Ryo Ito, Ryohei Kakuchi, Kenji Takada, Tomoyuki Ikai, Kazuaki Ninomiya, Katsuhiko Maeda and Kenji Takahashi (Japan)..... 356 | G-2 Structures and Physical Properties of Polymers | |
| 14P-S7-074b | Phenolization of lignin and its application to epoxy resin <u>Asuka Kawasaki</u> , Kaori Matsumura, Akio Takahashi, Toshiyuki Oyama and Hiroyuki Okuhira (Japan)..... 357 | 14P-G2-092b | On-Film Annealing: Fabrication of Asymmetric Polymer Particles with Anisotropic Curvatures <u>Hsiao-Fan Tseng</u> , Ming-Hsiang Cheng, Kai-Sheng Jeng, Jia-Wei Li and Jiun-Tai Chen (Taiwan)..... 373 |
| 14P-S7-075a | Ring opening polymerization of cyclic carbonates over acid-base bifunctional catalyst <u>Masayoshi Honda</u> and Hideki Abe (Japan)..... 358 | 14P-G2-093a | Structural diversification of light metal coordination polymers using a 4-(methylsulfonyl) benzoate ligand with a charge-polarized neutral methylsulfonyl moiety <u>Rika Ochi</u> , Shin-ichiro Noro, Kazuya Kubo and Takayoshi Nakamura (Japan)..... 374 |
| 14P-S7-076b | Development of Environmentally Degradable Heterocyclic Itaconic acid based Polyamides and their Composites <u>Mohammad Asif Ali</u> , Seiji Tateyama and Tatsuo Kaneko (Japan)..... 359 | 14P-G2-094b | Structures of complexes formed by diblock and triblock copolymers of poly(ethyl oxazoline) and poly(methacrylic acid) <u>Shota Morishima</u> , Yasunori Shiokawa, Yasuhiro Matsuda, Atsushi Takahara and Shigeru Tasaka (Japan)..... 375 |
| 14P-S7-077a | Transformation of lignin-derived aromatics into nonaromatic polymeric substances with fluorescent activities by <i>Pseudomonas</i> sp. ITH-SA-1 <u>Yuki Sakano</u> , Hiroshi Matufuji, Michio Sunairi and Noriyuki Iwabuchi (Japan)..... 360 | 14P-G2-095a | Association Behavior of Amphiphilic Cyclic Peptide in Aqueous Solution <u>Eri Tabata</u> , Satoshi Kanazawa and Isamu Akiba (Japan)..... 376 |
| 14P-S7-078b | Cooperative Adsorption for Critical Metals Using Stereo-Regular Poly- γ -Glutamate <u>Yuichi Hakumai</u> , Tomoki Kawamoto and Makoto Ashiuchi (Japan)..... 361 | 14P-G2-096b | The influence of crystallinity on the bulging deformation behavior of nylon12 film <u>Chigusa Nagano</u> , Shuhei Nozaki, Aya Fujimoto, Kazutaka Kamitani, Ya-ting Hsieh, Hirohmi Watanabe, Ken Kojio and Atsushi Takahara (Japan)..... 377 |
| 14P-S7-079a | Preparation and Hydrolysis of Water-Stable Amorphous Cellulose <u>Kazuyuki Hattori</u> and Arisa Arai (Japan)..... 362 | 14P-G2-097a | Study on Relation between Spatial Distribution and Release Rate of Hydrophobic Compounds Incorporated in Polymer Micelles <u>Shota Sasaki</u> , Ryosuke Nakanishi and Isamu Akiba (Japan)..... 378 |
| 14P-S7-080b | Permeation Properties of Cellulose Acetate Membranes with Potassium-Cyclodextrin based Metal-Organic Framework <u>Hirohito Yamasaki</u> , Hirotaka Kawaguchi, Mika Matsushige, Tomoya Masuda, Syoichi Aida, Izumi Kumakiri, Kazuhiro Tanaka and Hidetoshi Kita (Japan)..... 363 | 14P-G2-098b | Performance of carbon dioxide absorption by Dry Ionic Liquid containing polymer <u>Masaya Miyake</u> and Mitsuru Satoh (Japan)..... 379 |
| 14P-S7-081a | Preparation of Chitin Nanofiber/Natural Rubber Composite Material <u>Kazuya Yamamoto</u> , Ryo Endo and Jun-ichi Kadokawa (Japan)..... 364 | 14P-G2-099a | Crystal structure and chain dynamics of stereoregular hydrogenated polynorbornenes <u>Yuki Nakama</u> and Shigetaka Hayano (Japan)..... 380 |
| 14P-S7-082b | Removal of heavy metal ions using a polysaccharide-based flocculant Sayaka Fujita, Noya Kaizawa, Riku Sato, Hiroyuki Kono and Nobuo Sakairi (Japan)..... 365 | 14P-G2-100b | Monomer Sequence Effect on Swelling Behavior of Thermoresponsive Gels Carrying Ionizable Groups <u>Megumi Sogoh</u> , Shohei Ida, Satoshi Tanimoto, Shokyoku Kanaoka and Yoshitsugu Hirokawa (Japan)..... 381 |
| 14P-S7-083a | Properties of poly(Asp) hydrolase-1 capable of cleaving β -amide bonds and its application to β -peptide synthesis <u>Tomohiro Hiraishi</u> , Hideki Abe and Mizuo Maeda | 14P-G2-101a | Phase Behavior of Colistin Methanesulfonate in Aqueous Solution <u>Kosuke Morimoto</u> , Satoshi Kanazawa and Isamu Akiba (Japan)..... 382 |
| | | 14P-G2-102b | The effect of stereoregularity on phase-transition behaviors of aqueous polymethacrylamides <u>Pohsun Yin</u> , Junpei Hashimoto, Tadashi Segata, Miyuki Oshimura, Tomohiro Hirano and Koichi Ute (Taiwan)..... 383 |

| | | | |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14P-G2-103a | Enthalpy relaxation of amorphous polystyrene and polyisobutylene. <u>Jun Fujimura</u> , Eri Nishiyama, Shotaro Kimura and Itaru Tsukushi (Japan)..... 384 | 14P-G2-120b | Hysteresis on the phase separation of the aqueous solution of thermo-responsive polymers VII- α , ω -hydroxyl telechelic poly(2-isopropyl-2-oxazoline). <u>Takaaki Bekki</u> , Kento Hamamura, Yusuke Sanada and Yukiteru Katsumoto (Japan)..... 400 |
| 14P-G2-104b | Structural Analysis of Cellulose Acetate and Zirconium Alkoxide Hybrid Fibers <u>Hanako Asai</u> , Koji Nakane, Fumihiko Nishimura, Susumu Yonezawa and Hiroaki Nitani (Japan)..... 385 | 14P-G2-121a | Preparation of tetra-PEG-graphene oxide hydrogels as efficient dye adsorbents <u>Kateryna Khairulina</u> , Takamasa Sakai and Ung-il Chung (Japan)..... 402 |
| 14P-G2-105a | Structurally Anisotropic Composite Films Made of Polyion Complexes of Polysaccharides Using Roll Press Techniques <u>Yuichi Nikaido</u> , Kazutoshi Iijima and Mineo Hashizume (Japan)..... 386 | 14P-G2-122b | Structure analysis of Crystalline Shape-Memorized Gel with synchrotron X-ray scattering measurements. <u>Soken Konno</u> , Jin Gong and Go Matsuba (Japan).... 403 |
| 14P-G2-106b | Directional Control of Diffusion and Swelling in LC Polysaccharide Hydrogels with Laminated Structure for Developing Anisotropic Soft Materials <u>Gargi Joshi</u> , Kosuke Okeyoshi, Maiko K. Okajima and Tatsuo Kaneko (Japan)..... 387 | 14P-G2-123a | Thermoresponsive self-assembling behavior of PEO-PPO block copolymers in aqueous solution <u>Yusuke Sanada</u> , Naoyuki Koga, Tasuku Horiuchi and Yukiteru Katsumoto (Japan)..... 404 |
| 14P-G2-107a | High-Pressure-Induced Structural Change in Polyimide Containing Hydrogen-Bonding Amide-Linkage in Main Chain <u>Eisuke Fujiwara</u> , Hiroshi Fukudome, Ryohei Ishige and Shinji Ando (Japan)..... 388 | 14P-G2-124b | Meso-scale structure of polyrotaxane consisting of triblock copolymer as a main chain <u>Shuntaro Uenuma</u> , Rina Maeda, Shoko Takahashi, Kazuaki Kato, Koichi Mayumi, Hideaki Yokoyama and Kohzo Ito (Japan)..... 405 |
| 14P-G2-108b | Fluorescence imaging of director spatial distribution in liquid crystal blue phases using dichroic dyes with confocal laser scanning microscope <u>Takaaki Narita</u> , Yasushi Okumura, Jun-ichi Fukuda, Hiroki Higuchi and Hirotsugu Kikuchi (Japan)..... 389 | 14P-G2-125a | Thermal properties of water, hyperbranched polyglycerols and polyglycerol dendrimers <u>Yosuke Sugimoto</u> , Masaru Tanaka and Tooru Ooya (Japan)..... 405 |
| 14P-G2-109a | Transmission Electron Microscope Observation of Polymer Aggregation Structure in Polymer-Stabilized Blue Phase <u>Shinji Shindo</u> , Yasushi Okumura, Takeshi Higuchi, Hiroshi Jinnai, Hiroki Higuchi and Hirotsugu Kikuchi (Japan)..... 390 | 14P-G2-126b | Aggregation States and Dynamics of Rotaxaned Surface <u>Hideobu Taneda</u> , Atsuomi Shundo, Hisao Matsuno and Keiji Tanaka (Japan)..... 407 |
| 14P-G2-110b | Heat capacity analysis of amorphous polyisobutylene based on molecular vibrations. <u>Marika Yokota</u> , Eri Nishiyama, Jun Fujimura and Itaru Tsukushi (Japan)..... 391 | 14P-G2-127a | The Mechanism of the Helix-sense Inversion of Polyaspartates in the Solid State as Revealed by the Study of Block Copolymers <u>Hirotsu Inoue</u> , Yuki Suzuki and Hidemine Furuya (Japan)..... 408 |
| 14P-G2-111a | Synthesis of random copolymers composed of anionic and cationic monomers <u>Rina Nakahata</u> and Shin-ichi Yusa (Japan)..... 392 | 14P-G2-128b | Dielectric Relaxation Time of Ice-Ih in Partially Crystallized Polymer Aqueous Mixtures <u>Takahito Yasuda</u> , Yurika Matsui, Kaito Sasaki, Rio Kita, Naoki Shinyashiki and Shin Yagihara (Japan)..... 409 |
| 14P-G2-112b | Brill transition of polyurea crystals with synchrotron X-ray scattering measurements <u>Takayuki Kobayashi</u> and Go Matsuba (Japan)..... 393 | 14P-G2-129a | Glass Transition of Water and Polymer in Poly (vinyl methyl ether)-Water Mixtures <u>Masanobu Takatsuka</u> , Takumi Maeda, Kaito Sasaki, Rio Kita, Naoki Shinyashiki and Shin Yagihara (Japan) . 410 |
| 14P-G2-113a | Micellization behaviors of PEO-PPO multi-block copolymer and triblock copolymer in aqueous solution <u>Kazuaki Rikiyama</u> , Naoyuki Koga and Yukiteru Katsumoto (Japan)..... 394 | 14P-G2-130b | Molecular aggregation behavior and scratch behaviors of polyphenyleneoxide / polystyrene blends <u>Yudai Kiyoshima</u> , Yuji Higaki, Ken Kojio and Atsushi Takahara (Japan)..... 411 |
| 14P-G2-114b | Microscopic Structure of Supramolecular Organogel from Amphiphilic Cyclic Peptide Self-Assembly <u>Satoshi Kanazawa</u> , Kosuke Morimoto and Isamu Akiba (Japan)..... 395 | 14P-G2-131a | Formation of networks using cracking phenomena and their viscoelastic properties <u>Momoko Kitamikado</u> and Daisuke Tatsumi (Japan) . 412 |
| 14P-G2-115a | Hysteresis on the phase separation of the aqueous solution of thermo-responsive polymers VIII ~Relation between aggregation and dehydration process of PNiPAm by fluorescence probe method~ <u>Reika Ikemoto</u> , Kento Hamamura, Yusuke Sanada and Yukiteru Katsumoto (Japan)..... 396 | 14P-G2-132b | Effect of branched point and arm length in the formation of shish of linear and star poly(L-lactic acid) (PLLA) blend <u>Go Hiwasa</u> , Shinichi Yamazaki and Kunio Kimura (Japan)..... 413 |
| 14P-G2-116b | Design of nano-structured PICs using all-hydrophilic block copolymers and their site-specific incorporation of functional nanomaterials <u>Yujiro Hamada</u> , Takeshi Mori, Yoshiki Katayama and Akihiro Kishimura (Japan)..... 397 | 14P-G2-133a | Influence of the headgroup volume of calix[4]arene based-lipids on the micellar structure with similar morphologies to polyhedral <u>Kenta Yoshida</u> , Sakiko Matsumoto, Yusuke Sanada, Shota Fujii and Kazuo Sakurai (Japan)..... 414 |
| 14P-G2-117a | Mussel-inspired, ultrasmooth surfaces for block copolymer nanopatterning on inert and flexible substrates <u>Joon Hee Cho</u> , <u>Reika Katsumata</u> , Sunshine X Zhou, Chae Bin Kim, Austin R Dulaney, Dustin W Janes and Christopher J Ellison (U.S.A.)..... 398 | 14P-G2-134b | Small- and Wide-angle X-ray Scattering Study of Cononsolvency: Microscopic Structure and Critical Behavior of Poly(<i>N</i> -isopropylacrylamide) in Monohydric Alcohol/Water Mixtures <u>Mamoru Fujiki</u> , Keiichi Yanase, Daisuke Suzuki and Takaaki Sato (Japan)..... 415 |
| 14P-G2-118b | The effect of comonomer on the viscous behavior for the aqueous dispersion of Poly(<i>N</i> , <i>N</i> -dimethylacrylamide) micro hydrogels <u>Takamasa Yoshino</u> and Yukiteru Katsumoto (Japan)..... 399 | 14P-G2-135a | Nano-Structural Analysis of Aggregates Formed by Homogeneous Polyoxyethylene Type Nonionic Surfactants with Methoxy or Ethoxy Terminal Group <u>Shiho Yada</u> and Tomokazu Yoshimura (Japan)..... 416 |
| 14P-G2-119a | Wetting Process in Micron-order Spheres and Viscoelastic Material Systems | 14P-G2-136b | The study on the change with the density fluctuation of Polycarbonate under deformation by time-resolved small angle X-ray scattering <u>Yuki Watanabe</u> , Shotaro Nishitsuji, Hiroshi Ito, Masaru Ishikawa, Takashi Inoue and Mikihiro Takenaka (Japan)..... 417 |
| | | 14P-G2-137a | Formation of Optically Anisotropic Gel by Removing |

| | | | | | |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| | Cations from Cellulose Sodium Hydroxide Aqueous Solution <u>Yuka Koga</u> and Daisuke Tatsumi (Japan)..... 418 | | | | <u>Hajime Nagai</u> and Takahiko Nakaoki (Japan)..... 436 |
| 14P-G2-138b | Physical properties and network structures of gellan gum solutions with multivalent cations studied by NMR and ESR <u>Yun Zhou</u> , Qiuhua Zhao and Shingo Matsukawa (Japan) 419 | | 14P-G2-156b | Investigation of Phase Structure for Ultra High Molecular Weight Polyethylene by solid-state 13C NMR <u>Takanari Ikenishi</u> , Takahiko Nakaoki and Hideaki Ishihara (Japan) 437 | |
| 14P-G2-139a | Orientation behavior and intra- and inter-molecular interaction of miscible polymer blend: poly(methyl methacrylate)/poly(styrene-co-acrylonitrile) <u>Mizuho Takagi</u> , Keiichi Kuboyama and Toshiaki Ougizawa (Japan) 420 | | 14P-G2-157a | Correlation between a micellar structure and a lattice made by those in block copolymer / homopolymer blends <u>Hideaki Takagi</u> and Katsuhiko Yamamoto (Japan).... 438 | |
| 14P-G2-140b | Fabrication and Wettability of Anisotropic Surface Structures Imitating Hair Cuticle <u>Shingo Ito</u> and Daisuke Ishii (Japan) 421 | | 14P-G2-158b | Structural analysis of O-linked glycans in lacquer glycoproteins, laccase and stellacyanin, by PMP labeling and MALDI TOF mass spectrometry methods <u>Tumurbaatar Oyunjargal</u> and Takashi Yoshida (Japan) 439 | |
| 14P-G2-141a | Molecular weight dependence on crystallization during shear flow of polypropylene <u>Yo Okawa</u> and Go Matsuba (Japan)..... 422 | | 14P-G2-159a | Melt processing of poly-3-alkylthiophene composite <u>Yurika Takagi</u> and Ryuichi Sugimoto (Japan)..... 440 | |
| 14P-G2-142b | Viscoelasticity measurement of thixotropic polyurea gel by using a quartz crystal microbalance <u>Kaito Shimizu</u> , Katsunori Inaishi, Ryosuke Matsubara and Atsushi Kubono (Japan) 423 | | 14P-G2-160b | Influence of Nano ZnO on Curing of Natural Rubber and Its Enhanced Mechanical Properties <u>Yong Hwan Lee</u> , Misuk Cho and Youngkwan Lee (Korea.) 441 | |
| 14P-G2-143a | Photoalignment of Polyazomethine Thin Films Prepared by Vapor Deposition Polymerization <u>Masanori Kamiya</u> , Katsunori Inaishi, Ryosuke Matsubara and Atsushi Kubono (Japan)..... 424 | | 14P-G2-161a | Computational and experimental study for structural analysis of molecular aggregate in aqueous solution <u>Tadashi Okobira</u> , Tomoya Ueda, Koudai Ikesue, Yusuke Sanada, Shota Fujii and Kazuo Sakurai (Japan) 442 | |
| 14P-G2-144b | The viscous behavior for the aqueous dispersion of poly(<i>N</i> -isopropylacrylamide) micro hydrogels <u>Miho Iwamoto</u> , Takamasa Yoshino and Yukiteru Katsumoto (Japan) 425 | | 14P-G2-162b | Characterization of Syndiotactic Polystyrene Physical Gel in the Mixed Solvent of Chloroform and Toluene <u>Risei Wada</u> , Hidenobu Shimizu and Masaru Okabe (Japan)..... 443 | |
| 14P-G2-145a | Change of molecular weight of cyclic PLLA via transesterification and its availability as nucleating agents for linear PLLA <u>Saori Yoshida</u> , Noritaka Yuki, Hironori Atarashi, Shinichi Yamazaki and Kunio Kimura (Japan) 426 | | 14P-G2-163a | Preparation of Surface-Functional Particles Undergoing Thermally/Photochemically-Induced Shape Change by Dispersion Polymerization <u>Tomomichi Itoh</u> , Tetsuo Tamamitsu, Katsuaki Kojima, Kento Tsutsui, Hiroaki Shimomoto and Eiji Ihara (Japan) 444 | |
| 14P-G2-146b | Uniform Nanoribbons by Self-Assembly of Fully Conjugated Block Copolymers Using Balance of Various Crystalline Moieties <u>Inho Choi</u> and Sanghee Yang and Tae-Lim Choi (Korea.) 427 | | 14P-G2-164b | Cavitation in the Static Melt of Polymers <u>Masato Hashimoto</u> , Tomoko Mizuguchi and Susumu Fujiwara (Japan)..... 445 | |
| 14P-G2-147a | Dendronized Polymer Containing Polyphenylene Dendrons: Synthesis and Conformational Analysis <u>Ki-Taek Bang</u> , Inho Choi and Tae-Lim Choi (Korea.)428 | | 14P-G2-165a | Formation of polymer-polymer crystalline region based polymer complexes <u>Fumitoshi Kaneko</u> , Shuma Sato and Nobutaka Tanigaki (Japan) 446 | |
| 14P-G2-148b | NMR characterization of sodium carboxymethyl cellulose: Substituent distribution and mole fraction of monomers in the polymer chains <u>Hiroyuki Kono</u> , Sayaka Fujita, Kazuhiro Oshima, Hisaho Hashimoto, Yuuichi Shimizu and Kenji Tajima (Japan) 429 | | 14P-G2-166b | High Refractive Index PVA Films Compositing with 12-Tungstophosphoric Acid <u>Shuichi Matsumoto</u> , Thiraporn Ishii, Matsumi Wada, Shoji Nagaoka, Makoto Takafuji, Yutaka Kuwahara and Hirota Iihara (Japan) 447 | |
| 14P-G2-149a | Surface modification of bacterial cellulose gel by forming a composite structure <u>Yukari Numata</u> , Minato Tsuji, Hiroyuki Kono and Kenji Tajima (Japan) 430 | | 14P-G2-167a | Phase Transitions and Orientational Behavior of Liquid-Crystalline Systems Base on Polyurethanes <u>Taiki Watanabe</u> , Yuta Shima, Masanori Nata and Seiji Ujiie (Japan) 448 | |
| 14P-G2-150b | Properties of sodium divinylbenzenesulfonate and its applications <u>Shinji Ozoe</u> and <u>Kazuya Iwanaga</u> (Japan)..... 431 | | 14P-G2-168b | CO ₂ separation membranes over H ₂ <u>Mai Yoshizawa</u> , Kae Kinugasa and Ikuo Taniguchi (Japan)..... 449 | |
| 14P-G2-151a | Associating Behavior of Binary Surfactant Mixtures Containing of Surfactin Sodium Salt <u>Kazuyuki Ito</u> , Eri Tabata and Isamu Akiba (Japan)... 432 | | 14P-G2-169a | Effect of membrane resistance on CO ₂ capture energy by electro dialysis <u>Takahiro Yamada</u> , Ikuo Taniguchi and Mitsuru Higa (Japan)..... 450 | |
| 14P-G2-152b | Relation between crystallinity and orientation for surface and inside of injection-molded Poly (butylene terephthalate) <u>Masanori Haga</u> , Misa Onishi, Takahiko Nakaoki, Hideaki Ishihara, Katsuhisa Yamashita and Kenichi Funaki (Japan) 433 | | 14P-G2-170b | Synthesis and properties of aqueous polythiophene gel <u>Azusa Yasuoka</u> and Ryuichi Sugimoto (Japan)..... 451 | |
| 14P-G2-153a | Improvement of Crystallinity for Poly(vinyl alcohol) Film by Swelling in Water and Drying Processes <u>Masayuki Miyanaga</u> and Takahiko Nakaoki (Japan). 434 | | 14P-G2-171a | Synthesis of amphiphilic diblock copolymers consisting of thermo-responsive polymer and side-chain liquid crystalline polymer, and investigation of the morphologies in film <u>Shingo Hadano</u> , Ryosuke Uchiyama, Chiho Watanabe, Tsukasa Sakai, Yosuke Niko, Yusuke Hibi, Tomokazu Iyoda and Shigeru Watanabe (Japan)..... 452 | |
| 14P-G2-154b | Transesterification process of Poly(ethylene terephthalate)/Poly(butylene terephthalate) blend film. <u>Masaya Yano</u> , Takahiko Nakaoki, Hideaki Ishihara and Katsuya Itou (Japan)..... 435 | | 14P-G2-172b | Nano-Structural Analysis of Aggregates Formed by Single-Alkyl Chain Containing Nonionic Amphiphilic Oligomers with Multi-Polyoxyethylene Side Chains <u>Maki Nagano</u> , Shiho Yada and <u>Tomokazu Yoshimura</u> (Japan)..... 453 | |
| 14P-G2-155a | Mesophase of Poly(ethylene terephthalate) and Poly(butylene terephthalate) investigated by Thermal Analysis | | 14P-G2-173a | Network structures of mixed carrageenan gels studied by NMR <u>Shingo Matsukawa</u> , Bingjie Hu and Yefeng Yao (Japan) 454 | |
| | | | 14P-G2-174b | Activation Energy for the Transmission of Water Vapour | |

| | |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | and Gases through Polymer Films <u>Holger Norenberg</u> , (U.K.)..... 455 |
| 14P-G2-175a | Physical properties of polypropylene composites with palm oil-treated microcrystalline cellulose <u>Dae Su Kim</u> and Feng Tang (Korea.)..... 456 |
| 14P-G2-176b | Effect of self-seeding process on single crystal shape of polyethylene <u>Kouichirou Tatebayashi</u> , Takayuki Narita and Yushi oishi (Japan) 457 |
| 14P-G2-177a | Structural Analysis of Metal-Deposited Nylon 6,6 for the Novel Wearable Device <u>Yuma Tahara</u> , Tomoko Hashimoto, Mitsuo Sano, Tso-Fu Mark Chang, Chun-Yi Chen, Masato Sone and Hiromichi Kurosu (Japan) 458 |
| 14P-G2-178b | Molecular dynamics study of generation mechanism of stress-birefringence in glassy polystyrene Eito Ariura, Keiichi Kuboyama and <u>Toshiaki Ougizawa</u> (Japan) 459 |
| 14P-G2-179a | Selective ethylene permeability of LLDPE/SEBS/Zeolite ZSM5 films <u>Chonlada Ritvirulh</u> , Kanokwan Hongthong, Kritsana Makphon, Chanaporn Rungroang, Suparat Rukchonlatee and Tawan Sooknoi (Thailand) 460 |
| 14P-G2-180b | Improvement of mechanical and water vapor permeability properties of LDPE/EVA/EVOH films with zeolite A <u>Suparat Rukchonlatee</u> , Tanyawit Sonpoo, Sirithorn Deesamer and Tawan Sooknoi (Thailand) 461 |
| 14P-G2-181a | Novel Flame Retardant from Mussel Shell Waste for Wood Plastic Composites (WPCs) <u>Itipol Jangchud</u> , Suthida Chamcheun and Banjong Boonchom (Thailand) 462 |
| 14P-G2-182b | Magnetic Properties of π -stacked polymers <u>Young-Wan Kwon</u> , Chang Hoon Lee, Min-Ho Yang, Jung-Il Jin and Tamaki Nakano (Korea) 463 |
| 14P-G2-183a | Microphase-Separated Structure and Mechanical Properties of Thiourethane Elastomers <u>Rahmawati</u> , Shuhei Nozaki, Tomoyasu Hirai, Yuji Higaki, Ken Kojio and Atsushi Takahara (Japan) 464 |
| | G-5 High Performance Polymers |
| 14P-G5-186b | Effect of Component Mobility of Macromolecular [2]Rotaxane Cross-Linker on the Property of Rotaxane Cross-Linked Polymers <u>Jun Sawada</u> , Daisuke Aoki and Toshikazu Takata (Japan) 465 |
| 14P-G5-187a | Synthesis of porous poly[oligo(ethylene glycol) mono(m)ethyl ether (meth)acrylate] gels and their thermosensitivity <u>Taku Nakata</u> , Syotaro Hara, Syunro Yoshimura, Katsuhiro Nkahara, Takehiko Gotoh and Takashi Iizawa (Japan) 466 |
| 14P-G5-188b | Conductive, transparent, flexible films: bio-nanohybrids of amino acid-derived polyimides with ITO <u>Sumant Dwivedi</u> and Tatsuo Kaneko (Japan)..... 467 |
| 14P-G5-189a | Transparent Thermally Stable Polyketone Resin <u>Youhei Ishikawa</u> , Hiroshi Matsutani, Masahiro Matsunaga, Nanako Mizuguchi, Hirotaka Minami and Katsuya Maeyama (Japan)..... 468 |
| 14P-G5-190b | Synthesis of high-performance polybenzimidazoles from bio-based starting materials and their applications as polymeric ionic liquids (PILs) <u>Aniruddha Nag</u> , Md. Asif Ali, Seiji Tateyama and Tatsuo Kaneko (Japan)..... 469 |
| 14P-G5-191a | Ultradrawn Polyethylene Composites with Nanodiamond <u>Shota Okamoto</u> , Takuya Matsumoto, Chizuru Hongo and Takashi Nishino (Japan)..... 470 |
| 14P-G5-192b | Application of Macroporous Gel-based Monolith Reactor to Cross-Coupling Reaction <u>Hikaru Matsumoto</u> , Hirokazu Seto, Yu Hoshino and Yoshiko Miura (Japan)..... 471 |
| 14P-G5-193a | Preparation of Kapton-type Polyimide Crystals by Phase Separation during polymerization <u>Anna Nozaki</u> , Shinichi Yamazaki and Kunio Kimura (Japan) 472 |
| 14P-G5-194b | Particles of Polyimide and Polyamide containing |

| | |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Benzobisthiazole Unit prepared by Using Reaction-induced Phase Separation <u>Ikumi Sanda</u> , Shinichi Yamazaki and Kunio Kimura (Japan)..... 473 |
| 14P-G5-195a | Stimuli-Responsive Nanofibers from PLA-starch-pyrene <u>Nathapol Chinvirojsatian</u> , Autchara Pangon and Suwabun Chirachanchai (Thailand)..... 474 |
| 14P-G5-196b | Synthesis of novel thermosensitive bilayer gels by acylation and their bending behaviour <u>Takashi Iizawa</u> , Syotaro Hara, Katsuhiro Nakahara and Takehiko Gotoh (Japan)..... 475 |
| 14P-G5-197a | Development of Acrylic Resin with High Transparency and Impact Strength by Copolymerization with Polyether <u>Akikazu Matsumoto</u> , Saori Matsumoto, Fumi Oono, Hiroshi Niinou, Eiko Okamoto and Tooru Tokimitsu (Japan)..... 476 |
| 14P-G5-198b | Nanocomposites of polydimethylsiloxanes with metal oxides for CO ₂ /N ₂ separation <u>Roman Selyanchyn</u> and Shigenori Fujikawa (Japan) 477 |
| 14P-G5-199a | Development of TriA-X Polyimide and its Fiber-Reinforced Composite Prepared by <i>in situ</i> Polymerization of Monomer Reactants (PMR) Method <u>Takefumi Furuta</u> , Shohei Kuroda, Masahiko Miyauchi, Yuki Kubota, Yuichi Ishida and Rikio Yokota (Japan)478 |
| 14P-G5-200b | Thermal and Mechanical Properties of Thermosetting Polyimide Resin TriA-X <u>Keigo Endo</u> , Takao Aoyagi, Takashi Sawaguchi, Takefumi Furuta, Masahiko Miyauchi, Yuichi Ishida and Rikio Yokota (Japan) 479 |
| 14P-G5-201a | The effect of localization of Cloisite30B from different master batch on Mechanical properties of NR/ENR/NBR blends <u>Chanchai Thongpin</u> , Kantinan Thipwong, Pongson Jongsriwarat and Pitsanu Khanchaphat (Thailand) ... 480 |
| 14P-G5-202b | The effect of Cloisite30B and peroxide on crystallization and mechanical properties of PLA/PEG blends <u>Chanchai Thongpin</u> , Kwanchai Buaksuntear, Chaiwat Tippuwanan and Theeraphat Tanprasert (Thailand)..... 481 |
| 14P-G5-203a | The synergy in thermal conductivity of liquid-crystalline epoxy resin composites with several coverage types of ceramic particles <u>Akinori Okada</u> , Joji Kadota, Hiroshi Hirano, Yasuyuki Agari, Takeshi Fujiwara, Junichi Inagaki, Takafumi Kuninobu and Kazuhiro Takizawa (Japan) 482 |
| 14P-G5-204b | Synthesis and characterization of Polyaniline (PAni)/TiO ₂ nanocomposites in hydrazine detection. <u>Sook-Wai Phang</u> , Kavirajaa Pandian Sambasevam and Sharifah Mohamad (Malaysia) 483 |

Thursday, December 15

S-2 Recent Trends in Physics for Macro- and Supra-molecules

| | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15P-S2-001a | Immobilization of Calix[4]arene-Based Micelles Structure by Cross-Link Formation Using Thiol-ene Reaction. <u>Taisei Miura</u> , Sakiko Matsumoto, Syota Fujii and Kazuo Sakurai (Japan)..... 484 |
| 15P-S2-002b | Analyzing a structure of the micelle consisting of a hydrophilic dendron-bearing amphiphilic calix[4]arene lipid <u>Shotaro Miwa</u> , Genki Kubo, Shota Fujii and Kazuo Sakurai (Japan)..... 485 |
| 15P-S2-003a | Temperature-responsiveness of Polymer Micelles Consisting of Amphiphilic Block Copolymers Having Dynamic Covalent Bond at Junction Point <u>Daiki Murakami</u> , Aoi Taniguchi and Isamu Akiba (Japan)..... 486 |
| 15P-S2-004b | Phase Behavior of Polyion Complex of Cationic-Neutral Block Copolymer with Polyaniion in Aqueous Solution <u>Kengo Tsuboi</u> , Ryo Shigeoka and Isamu Akiba (Japan) 487 |
| 15P-S2-005a | Characterization of micelles of trimeric surfactants based on small angle scattering techniques <u>Hiroki Kawauchi</u> , Shota Fujii, Sakiko Matsumoto and Kazuo Sakurai (Japan)..... 488 |
| 15P-S2-006b | Aggregation Behavior Sugar-modified Calix[4]arene |

| | | | |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Based Lipids in Aqueous Solution <u>Rika Miyake</u> , Shunsuke Sakamoto, Shota Fujii, Yusuke Sanada and Kazuo Sakurai (Japan)..... 489 | 15P-S2-024b | Synthesis and self-assembly of amphiphilic block copolymers consisting of hydrophilic and hydrophobic hyperbranched polyamides <u>Yoshihiro Ohta</u> , Yuji Abe, Eisuke Baba and Tsutomu Yokozawa (Japan)..... 507 |
| 15P-S2-007a | Quantitative visualization of the counter ions condensation around the cationic micelles using anomalous small-angle X-ray anomalous scattering <u>Sakiko Matsumoto</u> , Shota Fuji, Yusuke Sanada and Kazuo Sakurai (Japan)..... 490 | 15P-S2-025a | Synthesis and Spectroscopic and Electrochemical Properties of Hydrogen-Bonding Tetrathiafulvalene Derivatives <u>Ryuji Kaneko</u> , Guohua Wu, Kosuke Sugawa and Joe Otsuki (Japan)..... 508 |
| 15P-S2-008b | Synthesis of an Acylhydrazone-Linked Foldamer Bearing Optically Active Side-Chains and Its Self-Assembly Behavior <u>Satoshi Kawabata</u> , Naoki Ousaka and Eiji Yashima (Japan)..... 491 | 15P-S2-026b | Formation of reverse wormlike micelles by poly(oxybutylene)-poly(oxyethylene) block copolymer <u>Misaki Fujii</u> , Kaoru Ohishi and Kenji Aramaki (Japan)..... 509 |
| 15P-S2-009a | Investigation of Isomeric Kinetic Mechanism of an Azobenzene Containing Pseudorotaxane Crystal <u>Shao-Chi Cheng</u> and Masaki Horie (Taiwan)..... 492 | 15P-S2-027a | Fracture of Slide-Ring Materials <u>Koichi Mayumi</u> , Liu Chang, Kazuaki Kato, Hideaki Yokoyama and Kohzo Ito (Japan)..... 510 |
| 15P-S2-010b | Optical Property Controls of Octagold Clusters through the Non-bonding Interaction of Surrounding Multiple Aromatics Groups <u>Mitsuhiro Iwasaki</u> , Naoki Kobayashi, Yukatsu Shichibu and Katsuaki Konishi (Japan)..... 493 | 15P-S2-028b | Viscoelasticity of polyrotaxane glass with different inclusion ratios <u>Akihiro Ohara</u> , Kazuaki Kato, Koichi Mayumi, Hideaki Yokoyama and Kohzo Ito (Japan)..... 511 |
| 15P-S2-011a | Evaluation of Polytetrafluoroethylene Modification Function of the Side Chain Crystalline Block Copolymer <u>Yuta Saeki</u> , Hideaki Obuchi, Ryoko Nakano, Hiroshi Sekiguchi and Shigeru Yao (Japan)..... 494 | 15P-S2-029a | Preparation of hybrid hydrogels composed of self-assembled nanotubular aggregates-crosslinked polymer network <u>Fataha Nur Robel</u> , Makoto Takafuji and Hirota Ibara (Japan)..... 512 |
| 15P-S2-012b | Influence of alkyl chain length to the Structure of Micelle Formed from Calix[4]arene lipid <u>Masataka Araki</u> , Shota Fujii and Kazuo Sakurai (Japan)..... 495 | 15P-S2-030b | Molecular simulation of structure and mechanical properties of gels formed by end-linking of tetra-arm polymers <u>Hiroki Tanaka</u> and Tsuyoshi Koga (Japan)..... 513 |
| 15P-S2-013a | A High Dielectric Anisotropy Liquid Crystal with SHG Activity <u>Kazuya Shiroshita</u> , Hiroya Nishikawa, Hiroki Higuchi, Yasushi Okumura and Hirotsugu Kikuchi (Japan)..... 496 | 15P-S2-031a | Computer Simulation of Dynamics of Phase Ordering of Hydrogen-bonding Supramolecular Block Copolymers <u>Ryo Arimura</u> and Tsuyoshi Koga (Japan)..... 514 |
| 15P-S2-014b | UV Patterned Calixarene-Derived Supramolecular Gels and Films with Spatially Resolved Mechanical and Fluorescent Properties <u>Ji Ha Lee</u> , Jong Hwa Jung and Kazuo Sakurai (Japan)..... 497 | 15P-S2-032b | Photoresponsive Behaviors of Polypeptide Gel Films Containing an Azobenzene Unit with Different Alkyl Chain Length. <u>Tomohisa Aso</u> and Toshihiro Hiejima (Japan)..... 515 |
| 15P-S2-015a | Incorporation of Functional Molecules into Microporous Crystals from Carbazole Dendrimers <u>Sae Nakajima</u> , Soh Kushida, Ken Albrecht, Kimihisa Yamamoto, Eiji Nishibori and Yohei Yamamoto (Japan)..... 498 | 15P-S2-033a | Photoresponsive Behaviors of Liquid Crystalline Poly(L-glutamate) Gel Films Containing a Spiropyran Unit. <u>Hiromasa Imai</u> and Toshihiro Hiejima (Japan)..... 516 |
| 15P-S2-016b | Structural Control of Self-Assembled Fibers in an Aligned Liquid-Crystalline Field <u>Daisuke Yamaguchi</u> , Masafumi Yoshio and Takashi Kato (Japan)..... 499 | 15P-S2-034b | Crystallization Behavior and Structure of PVDF/[C ₆₀ mim][TfSA]/LiTfSA Ternary Systems <u>Yuichi Minematsu</u> and Noboru Osaka (Japan)..... 517 |
| 15P-S2-017a | Synthesis of poly(ethyl acrylate)/fluorohectorite nanocomposite elastomer <u>Yujiao Wu</u> and Nobuyoshi Miyamoto (China)..... 500 | 15P-S2-035a | Liquid Porphyrins as Novel Soft Chromophores Engineered with Branched Alkyl Chains <u>Avijit Ghosh</u> , Izuru Kawamura, Hiroaki Isago and Takashi Nakanishi (Japan)..... 518 |
| 15P-S2-018b | Preparation of the thermosensitive Tetriconic hydrogels and their physical properties <u>Midori Fujiki</u> , Shintaro Yashima and Masahiko Annaka (Japan)..... 501 | 15P-S2-036b | Optical and Physical Property Tuning of Alkylated- π Molecular Liquids by Arene-Perfluoroarene Interactions <u>Bhawani Narayan</u> and Takashi Nakanishi (Japan)..... 519 |
| 15P-S2-019a | Direct observation of the phase-separated structures in colloidal systems of binary inorganic nanosheets <u>Shinya Terada</u> , Syogo Yamaguchi, Morio Shintate, Emiko Mouri, Nobuyoshi Miyamoto and Teruyuki Nakato (Japan)..... 502 | 15P-S2-037a | Rheology and fluctuations in active bacterial hydrogel <u>Kohei Tanamachi</u> , Shuhei Nara, Takashi Kurihara and Daisuke Mizuno (Japan)..... 520 |
| 15P-S2-020b | Alkane Molecular Sensor Using Charge-Transfer Pillar[5]arene Crystals <u>Yasuo Shimada</u> , Takahiro Kakuta, Tomoki Ogoshi and Tada-aki Yamagishi (Japan)..... 503 | 15P-S2-038b | Enhanced reptation in active polymer network <u>Shuhei Nara</u> , Kohei Tanamachi, Takashi Kurihara and Daisuke Mizuno (Japan)..... 521 |
| 15P-S2-021a | Formation of Pillar[5]arene Multi-Layer Films with Micropores Using Layer-by-Layer Assembly <u>Shu Takashima</u> , Takahiro Kakuta, Tomoki Ogoshi and Tada-aki Yamagishi (Japan)..... 504 | 15P-S2-039a | Mechanical properties of cytoskeletal networks measured by dual-feedback microrheology <u>Natsuki Honda</u> , Kenji Nishizawa, Takayuki Ariga and Daisuke Mizuno (Japan)..... 522 |
| 15P-S2-022b | Structural color of the inorganic nanosheet/polymer composite gel <u>Keiichirou Sueyoshi</u> , Shinya Yamamoto and Nobuyoshi Miyamoto (Japan)..... 505 | 15P-S2-040b | Microrheology of soft hydrogel under external mechanical loading <u>Ryo Ogiwara</u> , Kohei Tanamachi, shuhei Nara, Natsuki Honda and Daisuke Mizuno (Japan)..... 523 |
| 15P-S2-023a | Molecular Simulation of Polymers Containing Different Alkyl Chain Lengths in Side Chains <u>Yoshifumi Amamoto</u> , Satoru Matsushima, Atsushi Takano, Yushu Matsushita and Yuichi Masubuchi (Japan)..... 506 | 15P-S2-041a | Alkylated-Pyrene Liquids with Tailorable Fluorescence - A Novel Fluid Matter <u>Fengniu Lu</u> , Tomohisa Takaya, Izuru Kawamura and Takashi Nakanishi (Japan)..... 524 |
| | | 15P-S2-042b | Catalyst-free Synthesis of Rotaxane Cross-linked Polymers Using Nitrile N-Oxide-containing Rotaxane Cross-linker <u>Hiromitsu Sogawa</u> , Misako Tani and Toshikazu Takata (Japan)..... 525 |
| | | 15P-S2-043a | Reversible Photo- and Thermally-Induced Motion of Supramolecular Crystal Actuators |

| | | | |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| 15P-S2-044b | <u>Kai-Jen Chen</u> and Masaki Horie (Taiwan)..... 526 Ultralarge mechanical anisotropy of a hydrogel with magnetically aligned nanosheets | | |
| 15P-S2-045a | <u>Koki Sano</u> , Yasuo Ebina, Takayoshi Sasaki, Yasuhiro Ishida and Takuzo Aida (Japan)..... 527 Physical Properties of Polyurethanes crosslinked by Polyrotaxanes | | |
| 15P-S2-046b | <u>Naoya Tabata</u> , Yoshimi Tanaka and Hiroto Murakami (Japan) 528 Structure analysis and compound of the micelle of an amphiphilic Calix[4]arene be hyperbranched polymer | | |
| 15P-S2-047a | <u>Hayata Matsumoto</u> , Shota Fuji and Kazuo Sakurai (Japan) 529 Creation of a new functional embolic agent by using the low-stimulus TR fluid. | | |
| 15P-S2-048b | <u>Makoto Takeda</u> , Koki Hirakawa, Yuri Kanazawa, Ryoko Nakano, Hiroshi Sekiguchi and Shigeru Yao (Japan) 530 Synthesis and AIE properties of tetraphenylethene functionalized amphiphilic block copolymer | | |
| 15P-S2-049a | <u>Shin-ichi Yamamoto</u> , Kento Sugino, Takayuki Fujii and Yuji Kitamoto (Japan)..... 531 High power and large strain polymer fiber actuators driven by electrical resistive heating. | | |
| 15P-S2-050b | Yuriko Kaneko, <u>Maki Hiraoka</u> and Hidekazu Arase (Japan) 532 Molecular Recognition-Directed Multicomponent Self-Assembly of Four Nucleotide-Appended Bolaamphiphiles and a Heteropolymeric Template DNA | | |
| 15P-S2-051a | <u>Rika Iwaura</u> , Yoshikazu Kanai and Mayumi Ohnishi-Kameyama (Japan)..... 533 Micelle formation of amphiphilic amylose derivatives in saline solution | | |
| | <u>Ken Terao</u> , Yuki Kameyama, Shinichi Kitamura and Takahiro Sato (Japan) 534 | | |
| S-3 Frontiers in Surface and Interface in Macromolecular Systems | | | |
| 15P-S3-054b | Electrophoretic mechanism of non-ionic poly(ester-sulfone). <u>Mizuki Yokoyama</u> and Akinori Takasu (Japan)..... 535 | | |
| 15P-S3-055a | Fabrication of hydrophilic surfaces by amphiphilic block polymer coating for antifouling properties on ceramic surfaces <u>Aya Noguchi</u> , Norifumi Isu and Madoka Takai (Japan) 536 | | |
| 15P-S3-056b | Electrophoretic deposition of non-ionic unsaturated polyester and UV-curing <u>Isamu Kawarazaki</u> and Akinori Takasu (Japan) 537 | | |
| 15P-S3-057a | Electrophoretic deposition of non-ionic latexes prepared by controlled radical polymerization <u>Daiki Mokude</u> , Masahiro Higuchi and Akinori Takasu (Japan)..... 538 | | |
| 15P-S3-058b | Super-Hydrophilized PDMS Microfluidics by Irradiation of Eximer Lamp <u>Koki Kawai</u> , Shuto Ito and Daisuke Ishii (Japan) 539 | | |
| 15P-S3-059a | Cellulose and cellulose nonwoven fabric surface modification function of side chain crystalline block co-polymer having reactive site in the functional unit. <u>Keishi Ootaguro</u> , Hideaki Obuchi, Ryoko Nakano, Hiroshi Sekiguchi and Shigeru Yao (Japan)..... 540 | | |
| 15P-S3-060b | Synthesis of Poly(biphenylacetylene) Derivatives Bearing Polar Groups and Their Application to Chiral Stationary Phases for HPLC <u>Ryoma Ishidate</u> , Tomoyuki Ikai, Katsuhiko Maeda, Kanoh Shigeyoshi and Eiji Yashima (Japan)..... 541 | | |
| 15P-S3-061a | Intentional induction of bicontinuous cubic liquid crystalline phases by tailor-made ionic liquids <u>Hiroaki Takeuchi</u> , Takahiro Ichikawa, Masafumi Yoshio, Takashi Kato and Hiroyuki Ohno (Japan)..... 542 | | |
| 15P-S3-062b | Exfoliation of organic layered compound through the intercalation of organic molecule <u>Yukiko Ishijima</u> , Yuya Oaki and Hiroaki Imai (Japan)..... 543 | | |
| 15P-S3-063a | Preferred Lamellar Orientation in Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) Thin Films Prepared on Si Wafers <u>Mami Goda</u> , Md. Amran Hossain, Shinichi Sakurai, | | |
| | Hideki Yamane, Hiroyasu Masunaga, Takaaki Hikima, Masaki Takada, Tomoyasu Hirai, Atsushi Takahara and Sono Sasaki (Japan)..... 544 | | |
| 15P-S3-064b | Hofmeister Effect on Counterion-specific Hydration States of Poly(ammonium cation) <u>Yoshihiro Inutsuka</u> , Yuji Higaki, Norifumi L Yamada, Yuka Ikemoto and Atsushi Takahara (Japan) 545 | | |
| 15P-S3-065a | Cr(VI) ion adsorption and desorption behavior of polyethylene films photografted with a cationic monomer and their kinetic characterization <u>Yohei Ishiguro</u> , Yuji Kimura, Hiromichi Asamoto, Kazunori Yamada and Hiroaki Minamisawa (Japan) 546 | | |
| 15P-S3-066b | Hydrogel Adhesion by Swelling-induced Wrinkling Film <u>Masatoshi Kato</u> , Yasuyuki Tsuboi and Taka-Aki Asoh (Japan)..... 547 | | |
| 15P-S3-067a | Weak Anchoring between Polymer/Nematic Liquid Crystal Interfaces based on Impurity-Induced Disorder Effect for Low External Field Response <u>Takahito Kanzaki</u> , Yasushi Okumura, Hiroki Higuchi, Masumi Yamashita, Jun Yamamoto and Hirotosugu Kikuchi (Japan) 548 | | |
| 15P-S3-068b | Self-assembly of pH-responsive polymer by electrostatic interaction <u>Yuki Ohara</u> , Keita Nakai, Kazuhiko Ishihara and Shin-ichi Yusa (Japan)..... 549 | | |
| 15P-S3-069a | Rectification mechanism of electroosmotic flow pumps with thin porous polymer membranes driven by alternating electric field <u>Yoshihito Matsuzaki</u> , Yasushi Okumura, Hiroki Higuchi and Hirotosugu Kikuchi (Japan)..... 550 | | |
| 15P-S3-070b | Strength and Structure of Adhesive Interface between Isotactic Polypropylene and Olefin-based Hot Melt Adhesives <u>Yosuke Shimizu</u> , Takuya Matsumoto, Chizuru Hongo and Takashi Nishino (Japan)..... 551 | | |
| 15P-S3-071a | Photoresponsive self-assembly of block copolymers triggered by photoisomerization of azobenzene moiety in ionic liquids <u>Caihong Wang</u> , Manabu Hirasawa, Yuzo Kitazawa, Yumi Kobayashi, Kei Hashimoto, Hisashi Kokubo and Masayoshi Watanabe (Japan)..... 552 | | |
| 15P-S3-072b | Conferment of adhesive properties of polyethylene plates by photografting of methyl methacrylate <u>Yuki Kazama</u> , Yuji Kimura and Kazunori Yamada (Japan)..... 553 | | |
| 15P-S3-073a | Wetting and Modification on Anisotropic Micropatterned Surface Inspired from Crustacea <u>Koji Muto</u> , Shuto Ito and Daisuke Ishii (Japan) 554 | | |
| 15P-S3-074b | Modification of glass surface by biocompatible polymer <u>Tomoko Honda</u> , Shin-ichi Yusa, Kazuhiko Ishihara and Yasuhiko Iwasaki (Japan) 555 | | |
| 15P-S3-075a | Hydrothermal pulverization of chiral silica into chiral silica sol <u>Xin-Ling Liu</u> , Tatsuhito Ozawa and Ren-Hua Jin (Japan) 556 | | |
| 15P-S3-076b | Enantioselective Discrimination at Dynamic Interface of A Chiral Polymer <u>Shinnosuke Oba</u> , Atsuo Shundo and Keiji Tanaka (Japan)..... 557 | | |
| 15P-S3-077a | Synthesis and Application of Polymethyloxazoline and Polyethyleneimine Supported by Polystyrene-Type microgel <u>Daiki Soma</u> , Katsuya Kaikake and Ren-Hua Jin (Japan) 558 | | |
| 15P-S3-078b | Chiral Ag/SiO ₂ Materials Templated by Chiral Polymeric Complexes <u>Seiji Tsunega</u> and Ren-Hua Jin (Japan) 559 | | |
| 15P-S3-079a | Complex with phosphobetaine surface formed from mixture of low molecular weight cationic surfactant and anionic diblock copolymer <u>Keita Nakai</u> , Shin-ichi Yusa and Kazuhiko Ishihara (Japan)..... 560 | | |
| 15P-S3-080b | An Evaluation of Encapsulation property of Spherical nano carbon in High-Density helical Poly(methyl methacrylate) brush | | |

| | | | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15P-S3-081a | <u>Masanao Sato</u> , Tomoyasu Hirai and Atsushi Takahara (Japan) 561 Polymer brush formed by surface segregation process of liquid crystalline block copolymer | 15P-S3-098b | Kuraya, Dai Kato, Osamu Niwa, Taisei Nishimi and Masashi Kunitake (Japan) 578 A study of bio-active Janus particles consist of alginate-gelatine matrix. |
| 15P-S3-082b | <u>Koji Mukai</u> , Mitsuo Hara, Shusaku Nagano and Takahiro Seki (Japan) 562 Selective surface modification at photo-irradiated area of polyetherimide film by reaction development patterning | 15P-S3-099a | <u>Kiyotaka Fujise</u> , Shota Tokunaga, Yushi Oishi and Takayuki Narita (Japan)..... 579 Fabrication and characterization of Al alloy/polymer composites with anisotropic wettabilities |
| 15P-S3-083a | <u>Hisashi Ogasawara</u> , Yuichiro Tokoro and Toshiyuki Oyama (Japan)..... 563 CPL-generating transparent polymer films enclosing dye-on-template composite system | 15P-S3-100b | <u>Yan-Yu Chang</u> , Yu-Wei Lin, Wei-Cheng Zeng, Chih-Feng Wang and Wen-Ning Wang (Taiwan)..... 580 Effect of intermolecular hydrogen bonding on surface free energies of poly(vinylphenol)/ poly(4-vinyl pyridine) composites |
| 15P-S3-084b | <u>Taisei Goto</u> , Yutaka Okazaki, Masahiro Ueki, Yutaka Kuwahara, Makoto Takafuji, Reiko Oda and Hiroataka Ihara (Japan) 564 Fabrication of helical silica nanoribbons through chirality-induced polymerization on chirally-oriented assembling system | 15P-S3-101a | <u>Wen-Ning Wang</u> , Sheng-Jih Lin, Yan-Yu Chang, Chih-Feng Wang and Wei-Cheng Zeng (Taiwan) 581 Preparation and characterization of multiwall carbon nanotube/polymer composites with robust superhydrophobicity |
| 15P-S3-085a | <u>Yutaka Okazaki</u> , Emilie Pouget, Reiko Oda, Naoya Ryu, Makoto Takafuji and Hiroataka Ihara (Japan)..... 565 Hydrophilicity Switching of Diamine Polymer Coatings via CO ₂ Capture Under Water | 15P-S3-102b | <u>Wei-Cheng Zeng</u> , Wen-Ning Wang, Yan-Yu Chang and Chih-Feng Wang (Taiwan)..... 582 Surface Potential and Vertical Orientational Structure for Surface-grafted Polyaspartates Thin Films Exhibiting Helix-sense Inversion |
| 15P-S3-086b | <u>Matsutaro Kobayashi</u> , Takeo Suga and Hiroyuki Nishide (Japan) 566 Physical Properties and Functions of Poly(vinyl ether) in Thin Hydrogel Films | 15P-S3-103a | <u>Hide mine Furuya</u> , Takuto Matsuzono and Kouki Shibata (Japan)..... 583 Modification of graphene and graphene oxide with poly(dimethylsiloxane) |
| 15P-S3-087a | <u>Nozomi Itagaki</u> , Yukari Oda, Toyoaki Hirata, Hung Kim Nguyen, Daisuke Kawaguchi and Keiji Tanaka (Japan) 567 Chemical structure dependence of flavin derivatives for selective separation of semiconducting single-walled carbon nanotubes | 15P-S3-104b | Takuma Ikarashi, Kumi Hashimoto, Kazuhiro Fujiki, Shingo Tamesue, Takeshi Yamauchi and <u>Norio Tsubokawa</u> (Japan) 584 Preparation and Evaluation of New Ionic Liquid-Modified Magnetic Solid-Phase Extraction Materials |
| 15P-S3-088b | <u>Kanako Nishimura</u> , Fumiyuki Toshimitsu and Naotoshi Nakashima (Japan) 568 Investigation of crystallization of alkyl-chain-modified thienoacene derivatives at air/liquid interfaces | 15P-S6-106b | <u>Houmei Liu</u> , Hongdeng Qiu, Makoto Takafuji and Hiroataka Ihara (Japan)..... 585 S-6 Polymers in Automobiles and Aircrafts |
| 15P-S3-089a | <u>Ryota Urata</u> , Satoshi Watanabe, Tetsuya Aoyama, Masanobu Uchiyama and Masashi Kunitake (Japan) 569 Photoinduced mass transfer driven by the surface hetero structure in photoresponsive liquid crystalline polymer films | 15P-S6-107a | Preparation of hybrid materials from phenolic polymers <u>Takafumi Hayashi</u> , Takahiro Kakuta, Tomoki Ogoshi and Tada-aki Yamagishi (Japan)..... 586 Fractural mechanism of long fiber reinforced phenolic molding compound |
| 15P-S3-090b | <u>Issei Kitamura</u> , Mitsuo Hara, Shusaku Nagano and Takahiro Seki (Japan) 570 Chain Conformation and Wetting of Poly(sulfobetaine methacrylate) Brushes | 15P-S6-108b | <u>Hideaki Inokuchi</u> , Koji Koizumi, Shinji Ogihara, Ryuta Kitamura and Tadaaki Asano (Japan) 587 Fabrication of single-walled carbon nanotubes fibers using a novel microchannel wet-spinning |
| 15P-S3-091a | <u>Tatsunori Sakamaki</u> , Yoshihiro Inutsuka, Yuji Higaki and Atsushi Takahara (Japan)..... 571 Highly Ordered Lamellar Structure Formed by a Liquid Crystalline Azobenzene Random Copolymers with a POSS Side-Chain Unit | 15P-S6-109a | <u>Takahiro Shimizu</u> , Takaichi Watanabe and Tsutomu Ono (Japan)..... 588 Modification of Chemically Stable Polymeric Materials. 84. Improvement in the adhesion property of polymer composites. for automobiles/aircrafts |
| 15P-S3-092b | <u>Miho Nagai</u> , Mitsuo Hara, Shusaku Nagano and Takahiro Seki (Japan) 572 Synthesis and alignment of the microphase separated structures for POSS-b-LC | 15P-S6-110b | Hitoshi Kanazawa and <u>Aya Inada</u> (Japan) 589 The Characteristics of PP/PA11 Polymer Alloys and Outlook for the Practical Applications |
| 15P-S3-093a | <u>Yumi Otsuka</u> , Mitsuo Hara, Shusaku Nagano and Takahiro Seki (Japan) 573 Synthesis of Riboflavin Derivatives and Their Single-walled Carbon Nanotube Chirality Sorting Ability | 15P-S6-111a | <u>Keisuke Kato</u> , Masayuki Kito and Jumpei Kawada (Japan)..... 590 High thermal stable and high strength carbon nanotube and PEEK composite for automobiles |
| 15P-S3-094b | <u>Wataru Ishimaru</u> , Fumiyuki Toshimitsu and Naotoshi Nakashima (Japan) 574 Mechanism of selective single-walled carbon nanotube solubilization using flavin derivatives | 15P-S6-112b | <u>Seisuke Ata</u> , Shigeki Tomonoh, Takeo Yamada and Kenji Hata (Japan) 591 Surface modification of biopolyimide films and their metal oxide composites with advanced optical properties |
| 15P-S3-095a | <u>Keita Ozono</u> , Fumiyuki Toshimitsu and Naotoshi Nakashima (Japan) 575 A Novel pattern of Collagen Gel Through Ionotropic Gelation | 15P-S6-113a | <u>Sumant Dwivedi</u> , Seiji Tateyama, Guey-Sheng Liou and Tatsuo Kaneko (Japan) 592 Molecular Aggregation Structures of Nylon 12 During Crack Propagations in Biaxial Tensile Testing |
| 15P-S3-096b | <u>Misaki Kondo</u> , Honami Takajo, Yushi Oishi and Takayuki Narita (Japan)..... 576 Preparation of the chitosan containing capsule with sugar-triggering oscillation | 15P-S6-114b | <u>Nobuhisa Takayama</u> , Kazutaka Kamitani, Ken Kojio and Atsushi Takahara (Japan)..... 593 Development of a local bio-composite for the automotive industry |
| 15P-S3-097a | <u>Yuki Takazaki</u> , Takahiro Honda, Yushi Oishi and Takayuki Narita (Japan)..... 577 Electrochemical Analysis of Lipophilic Species based on Bicontinuous Organo/Hydro Hybrid Gels | | <u>Takuya Nishimura</u> (Japan)..... 594 G-6 Bio-related Polymers |
| | <u>Kyosei Goto</u> , S. M. Nur Alam, Satoshi Watanabe, Eisuke Kuraya, Dai Kato, Osamu Niwa, Taisei Nishimi and Masashi Kunitake (Japan) 578 A study of bio-active Janus particles consist of alginate-gelatine matrix. | 15P-G6-117a | Reversible Modification of Polylactide at Chain End by Vanillin Contributes to Nanostructure Control <u>Kai Kan</u> , Mitsuru Akashi and Hiroharu Ajiro (Japan) 595 |

| | | |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15P-G6-118b | Biomaterialization-inspired fabrication and structural estimation of chitosan/CaCO ₃ core-shell type composite microparticles <u>Izuka Nishij</u> , Shohei Ida, Shokyoku Kanaoka, Yoshitsugu Hirokawa and Satoshi Tanimoto (Japan) 596 | <u>Sho Katakami</u> , Yu Hoshino and Yoshiko Miura (Japan) 613 |
| 15P-G6-119a | Control of phase transition temperature of a biosynthesized extracellular matrix protein by introducing poly(2-oxazoline) side chains <u>Saki Morita</u> and Akinori Takasu (Japan)..... 597 | 15P-G6-136b Evidence for Peptide Recognition of Cholesterol in lipid membrane. <u>Masaru Mukai</u> and Steven L. Regen (Japan) 614 |
| 15P-G6-120b | Preparation of Glycopolymers Brush via Amine-coupling Reaction <u>Tomohiro Fukuda</u> , Suguru Yamashita and Sotaro Tsuji (Japan) 598 | 15P-G6-137a Metal ion-responsive hydrogels consist of PEG-DNA copolymers <u>Kazuki Fukushima</u> , Shizuma Tanaka, Kenta Wakabayashi, Shinsuke Yukami, Akinori Kuzuya and Yuichi Ohya (Japan) 615 |
| 15P-G6-121a | Structural analysis of modified DNA by using FRET system <u>Hayato Kawai</u> , Tetsuya Doi, Hiromu Kashida and Hiroyuki Asanuma (Japan) 599 | 15P-G6-138b Emulsion-like solution property of poly(ethylene glycol)-grafted hyaluronic acid <u>Ryo Adomi</u> and Tooru Ooya (Japan) 616 |
| 15P-G6-122b | Synthesis and analyze glycopolymers which self-assembly with response to concanavalin A <u>Takahiro Oh</u> , Yu Hoshino and Yoshiko Miura (Japan)600 | 15P-G6-139a Hyaluronic acid derivative-modified liposomes as intracellular drug delivery systems to CD44-expressing cells <u>Maiko Miyazaki</u> , Eiji Yuba, Hiroshi Hayashi, Atsushi Harada and Kenji Kono (Japan) 617 |
| 15P-G6-123a | SPR screening of protein recognition by glycopolymers synthesized via RAFT polymerization <u>Yuhei Terada</u> , Hirohiko Ise, Yu Hoshino and Yoshiko Miura (Japan)..... 601 | 15P-G6-140b Synthesis of ssDNA-grafted inorganic nanosheets <u>Shinya Anorak</u> , Yoshiro Kaneko and Nobuyoshi Miyamoto (Japan) 618 |
| 15P-G6-124b | Function of cysteine rich proteins in actin filaments <u>Shunpei Takaoka</u> and Takanori Kihara (Japan) 602 | 15P-G6-141a Preparation and characterization of silk fibroin/poly(ethylene carbonate) blends <u>Shoki Kodama</u> , Aki Yonezawa, Hirokazu Tajiri, Yasumoto Nakazawa and Yoichi Tominaga (Japan) . 619 |
| 15P-G6-125a | Synthesis and blood compatibility evaluation of novel PMEA analogs having precisely placed side-chain branches via regio/stereo-selective ring-opening metathesis polymerization. <u>Toshiki Sonoda</u> , Shingo Kobayashi and Masaru Tanaka (Japan) 603 | 15P-G6-143a Development of Functional Materials Based on Cellulose Derivatives and Amorphous Calcium Carbonate <u>David Kuo</u> , Yuto Suzuki, Tatsuya Nishimura, Kotaro Ito, Dai Nagahara, Chika Hirahara, Tsuguyuki Saito, Akira Isogai and Takashi Kato (Japan)..... 620 |
| 15P-G6-126b | Investigation of molecular crowding effect in DNA quadruplex hydrogels. <u>Shinsuke Yukami</u> , Shizuma Tanaka, Kazuki Fukushima, Kenta Wakabayashi, Akinori Kuzuya and Yuichi Ohya (Japan) 604 | 15P-G6-144b Synthesis and Functions of Multi-block Oligomers with Steroids <u>Maho Kato</u> , Takahiro Muraoka and Kazushi Kinbara (Japan)..... 621 |
| 15P-G6-127a | Embryoid body culture of mouse iPS cells using PDMS microwell chip. <u>Kenta Yamaguchi</u> , Daisuke Miyamoto and Kohji Nakazawa (Japan)..... 605 | 15P-G6-145a Characterization of cellulose-based bundled gels fabricated by dynamic microfluidic gelation system <u>Sayaka Tachizawa</u> , Young-Jin Kim, Haruko Takahashi, Yukiko Matsunaga and Akihiko Kikuchi (Japan) 622 |
| 15P-G6-128b | To Reveal the Influence of Electrical Stimuli on C-Reactive Protein / Phosphorylcholine Recognition by Electrochemical Quartz Crystal Microbalance <u>Jhih-Guang</u> Wu and Shyh-Chyang Luo (Taiwan) 606 | 15P-G6-146b Renovated interpretation of intermolecular interactions and spatial distributions of hen-egg white lysozyme in solution based on the elaborate static structure factor analysis <u>Takuya Sengoku</u> , Koichi Inano, Keiichi Yanase, Ryoichi Arai and Takaaki Sato (Japan)..... 623 |
| 15P-G6-129a | A facile optimization of cellulose modifications in ionic liquids (ILs) through an investigation of a catalytic role of imidazolium-based ILs <u>Ryo Ito</u> , Ryohei Kakuchi, Shuhei Nomura, Hadi Abroshan, Kazuaki Ninomiya, Tomoyuki Ikai, Hyung Kim, Kenji Takahashi and Katsuhiko Maeda (Japan) 607 | 15P-G6-147a Active Proton Transport by Liquid Membrane of Temperature-Response Nanogel Particles <u>Takaaki Miyoshi</u> , Masahiko Nakamoto, Yu Hoshino and Yoshiko Miura (Japan) 624 |
| 15P-G6-130b | Liquid crystal phases of inorganic nanosheet / microtubule mixtures and its temperature dependence <u>Riki Kato</u> , Akira Kakugo and Nobuyoshi Miyamoto (Japan) 608 | 15P-G6-148b Study of Single Chain conformation of gamma-polyglutamic Acid Using Atomic Force Spectroscopy <u>Parbhej Ahamed</u> , Masaru Kawakami and Hidemitsu Furukawa (Japan) 625 |
| 15P-G6-131a | Antibody-hybrid nanoparticles prepared by cell-free protein synthesis. <u>Risako Miura</u> , Mitsuru Ando, Shin-ichi Sawada, Yoshihiro Sasaki and Kazunari Akiyoshi (Japan) 609 | 15P-G6-149a Intracellular protein delivery using magnetic nanogel with chaperone-like activity <u>Riku Kawasaki</u> , Yoshihiro Sasaki, Kiyofumi Katagiri, Shin-ichi Sawada, Sada-atsu Mukai and Kazunari Akiyoshi (Japan) 626 |
| 15P-G6-132b | Enzymatic Synthesis of Oligo(ethylene glycol)-Bearing Cellulose Oligomers for the Formation of Hydrogels with Crystalline Nanoribbon Network Structures <u>Takatoshi Nohara</u> , Toshiki Sawada, Hiroshi Tanaka and Takeshi Serizawa (Japan)..... 610 | 15P-G6-150b Synthesis and Property of Novel Polymers Bearing Ferulic Acid in the Side Chain <u>Hironori Atarashi</u> , Airi Takashima, Hideji Osuga and Hideo Sakamoto (Japan) 627 |
| 15P-G6-133a | Development of novel biopolyimides and their derivatives from functionalized aromatic amino acid <u>Manjit S. Grewal</u> , Kazuya Taya, Seiji Tateyama and Tatsuo Kaneko (Japan)..... 611 | 15P-G6-151a Mineralization of PEEK surface for establishing biointegration <u>Shun Kunomura</u> and Yasuhiko Iwasaki (Japan)..... 628 |
| 15P-G6-134b | Construction of spheroids with vascular networks by microchip cultures <u>Hideo Yokoyama</u> , Takashi Morikyo and Kohji Nakazawa (Japan) 612 | 15P-G6-152b One-pot Synthesis of Polyrotaxanes with DM-CyD through Their Self-association in Water at High Temperature <u>Satoki Egashira</u> , Kentaro Morita, Taishi Higashi, Kazuaki Kato, Kohzo Ito, Keiichi Motoyama and Hidetoshi Arima (Japan)..... 629 |
| 15P-G6-135a | Effect of functional groups distribution on the interaction between polymer aptamer and melittin | 15P-G6-153a Enhanced Protein Encapsulation by Polyion Complex Vesicle Induction on Protein-Polyion Complex Particle <u>Yiwei Liu</u> , Hengmin Tang, Takeshi Mori, Yoshiki Katayama and Akihiro Kishimura (Japan)..... 630 |

| | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15P-G6-154b | Tumor Selective and Safety Supplemental Therapy of Tumor Suppressor microRNA Using Folate-PEG-appended Dendrimer (G4) Conjugate with α -cyclodextrin <u>Yuki Otsu</u> , Ayumu Ohyama, Taisi Higashi, Keiichi Motoyama and Hidetoshi Arima (Japan) 631 |
| 15P-G6-155a | Fabrication of cellulose monolith containing reactive oxygen species generator <u>Ju-Young Cha</u> , Ji-Hye Lee, Hiroshi Uyama and Young-Jin Kim (Korea.) 632 |
| 15P-G6-156b | Chitosan scaffold from a single water based multi-functional carboxylic acid system with the dual functions of protonation and crosslinking <u>Pornchanok Suwattanachai</u> and Suwabun Chirachanchai (Thailand) 633 |
| 15P-G6-157a | Monoclonal Antibodies with Chiral Recognition Ability for Binaphthol Derivatives <u>Hiroyasu Yamaguchi</u> and Takuma Adachi (Japan) 634 |
| 15P-G6-158b | Thermo-responsive triblock copolymer micelles for systemic delivery of siRNA to ovarian tumor Meng Zheng, <u>Hyun Jin Kim</u> , Kanjiro Miyata and Kazunori Kataoka (Japan) 635 |
| 15P-G6-159a | Increment of the Yield of Poly(3-hydroxybutyrate) Biosynthesized from Mixed Substrate of Glycerin and L-leucine by <i>Ralstonia eutropha</i> <u>Ippei Yamauchi</u> and Takahiko Nakaoki (Japan) 636 |
| 15P-G6-160b | Biosynthesis of block copolymer for Poly(3-hydroxyalkanoate) with Saturated and Unsaturated side chain by <i>P. putida</i> . <u>Takeru Michishita</u> and Takahiko Nakaoki (Japan) 637 |
| 15P-G6-161a | Cell culture study on photocrosslinked trehalose derivatives containing mesogenic groups <u>Shinya Yano</u> , Naozumi Teramoto, Toshiaki Shimasaki and Mitsuhiro Shibata (Japan) 638 |
| 15P-G6-162b | Drug delivery system of complex between phosphorylated polysaccharides and cationic surfactants <u>Takumi Okihara</u> , Hiroki Okajima and Shogo Kamenoue (Japan) 639 |
| 15P-G6-163a | Synthesis and cell compatibility of photocrosslinked hydroxypropyl cellulose cinnamates <u>Takumi Iwase</u> , Shinya Yano, Naozumi Teramoto, Toshiaki Shimasaki and Mitsuhiro Shibata (Japan)... 640 |
| 15P-G6-164b | Preparation and properties of photocrosslinked fish collagen peptide/chitin nanofiber composite hydrogels <u>Kei Yamaguchi</u> , Naozumi Teramoto, Shinsuke Ifuku, Toshiaki Shimasaki and Mitsuhiro Shibata (Japan)... 641 |
| 15P-G6-165a | Enhancing vascularization of layered cardiomyocyte sheets using VEGF releasing fiber mats <u>Kenichi Nagase</u> , Yuhei Nagumo, Hye-Jin Chung, Hee-Jung Kim, Hei-Won Kyung, Miri Kim, Hidekazu Sekine, Tatsuya Shimizu, Hideko Kanazawa, Teruo Okano, Seung-Jin Lee and Masayuki Yamato (Japan) 642 |
| 15P-G6-166b | Preparation of hydrogel based on starch aldehyde and carboxymethyl cellulose <u>Jongshin Park</u> and Jungmin Lee (Korea.) 643 |
| 15P-G6-167a | Synthesis of Urethane Acrylate Including Isosorbide and Their Curing Kinetics <u>Byoung ju Cho</u> , Hyong-jun Kim and Baek-jin Kim (Korea.) 644 |
| 15P-G6-168b | Synthesis and properties of superabsorbent hydrogels based on guar gum and glutaric anhydride <u>Toshio Yoshimura</u> , Momoko Nakashima and Rumiko Fujioka (Japan) 645 |
| 15P-G6-169a | Artificial Viral Capsid bearing Coiled-coil Structures Self-assembled from β -Annulus Peptides <u>Kazunori Matsuura</u> , Shoya Yamamoto and Seiya Fujita (Japan) 646 |
| 15P-G6-170b | Preparation and Properties of Bio-Based Polyurethane Foam Nanocomposites <u>Nantana Jiratumnukul</u> and Tatcha Sonjui (Thailand) 647 |
| 15P-G6-171a | Physical properties of castor oil-modified polyurethane nanocomposites with cellulose nanocrystals <u>Dae Su Kim</u> and Kihoon You (Korea.)..... 648 |
| 15P-G6-172b | Preparation and physical properties of green epoxy nanocomposites with cellulose nanocrystals |

| | |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15P-G6-173a | <u>Dae Su Kim</u> and Hyohee Seok (Korea.) 649 |
| | Water resistance properties of films from alginate and xanthan gum crosslinked by Ca ²⁺ and Fe ³⁺ <u>Pathavuth Monvisade</u> , Nutnicha Vimolsutr, Pornchanok Chailert and Plernta Wiriyi (Thailand)..... 650 |

Friday, December 16

| | |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S-1 Recent Trends in Polymer Synthesis | |
| 16P-S1-001a | Palladium-immobilized on Thiol-modified Silica Gel Catalyst for an Effective Direct C-H Arylation Polycondensation: Synthesis of High Pure and Molecular Weight EDOT-based π -Conjugated Polymers <u>Shotaro Hayashi</u> and Toshio Koizumi (Japan)..... 651 |
| 16P-S1-002b | Effect of counteranion in the polymerization of conjugated dienes using cationic neodymium catalyst <u>Ryo Tanaka</u> , Yuto Shinto, Kaede Yuuya, Yuushou Nakayama and Takeshi Shiono (Japan) 652 |
| 16P-S1-003a | Synthesis of Stereoregular Cyclic Poly(methyl Methacrylate) via Combining Anionic Polymerization and Click Reaction <u>Naoya Usuki</u> , Kotaro Satoh and Masami Kamigaito (Japan)..... 653 |
| 16P-S1-004b | Cross-coupling polycondensation catalyzed by palladium-tethering macrocycle complex <u>Shunya Mizuno</u> , Daisuke Aoki, Hiromitsu Sogawa and Toshikazu Takata (Japan) 654 |
| 16P-S1-005a | RAFT polymerization of <i>N</i> -vinylmaleimide <u>Kazuki Watanabe</u> , Kazuhiro Nakabayashi and Hideharu Mori (Japan) 655 |
| 16P-S1-006b | Synthesis of Sequence-Regulated Telechelic Oligomers via Atom Transfer Radical Addition and Their Polymerization Using Metathesis Reactions <u>Masato Miyajima</u> , Kotaro Satoh and Masami Kamigaito (Japan)..... 656 |
| 16P-S1-007a | Living Radical/Cationic Interconvertible Copolymerization of Vinyl Acetate and Cationically Polymerizable Monomers <u>Yuuma Fujiki</u> , Mineto Uchiyama, Kotaro Satoh and Masami Kamigaito (Japan)..... 657 |
| 16P-S1-008b | Synthesis and property of macromolecular [2]rotaxane bearing Pd-containing macrocycle <u>Miya Hiroi</u> , Daisuke Aoki, Hiromitsu Sogawa and Toshikazu Takata (Japan) 658 |
| 16P-S1-009a | Cationic and Radical Polyaddition between Dithiol and Divinyl Ether <u>Masahiro Osumi</u> , Mineto Uchiyama, Kotaro Satoh and Masami Kamigaito (Japan)..... 659 |
| 16P-S1-010b | Synthesis and physical properties of polymeric silane coupling agents having a polymerizable group <u>Sakie Yamauchi</u> , Kosuke Kaneko, Kiyomi Fuchigami and Tomonori Hanasaki (Japan) 660 |
| 16P-S1-011a | Syntheses of amphiphilic triblock copolymers and preparation of porous membranes <u>Takahiro Yamamoto</u> , Iori Maeda, Kosuke Kaneko, Kiyomi Fuchigami and Tomonori Hanasaki (Japan). 661 |
| 16P-S1-012b | Pd-mediated Controlled Polymerization of Diazoacetates Bearing a Dendron Unit <u>Ryo Hohsaki</u> , Hiroaki Shimomoto, Tomomichi Itoh and Eiji Ihara (Japan) 662 |
| 16P-S1-013a | Synthesis of Poly(<i>N</i> -alkylcarbamoylmethylene)s via Polymerization of Fluoroaryl Diazoacetates Followed by Postmodification <u>Tomohiko Kudo</u> , Hiroaki Shimomoto, Tomomichi Itoh and Eiji Ihara (Japan) 663 |
| 16P-S1-014b | Re-examination of the Polymerization of Amio Acid NCAs. 75. Secondary-amine initiated polymerization of amino acid NCAs. Hitoshi Kanazawa and <u>Aya Inada</u> (Japan) 664 |
| 16P-S1-015a | Synthesis of Polycarbonates by Alternating Copolymerization of Carbon Dioxide and Epoxides with High Glass Transition Temperature <u>Rie Arai</u> , Hiroshi Sugimoto and Keitaro Seto (Japan) 665 |
| 16P-S1-016b | A Convenient Approach to Polyolefin-based Graft Copolymers <u>ryuichi sugimoto</u> , (Japan)..... 666 |

| | | |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16P-S1-017a | Controlled Ring-Opening Polymerization of Lactide Catalyzed by Bulky Lewis Pairs <u>Yuushou Nakayama</u> , Shunsuke Kosaka, Kentaro Yamaguchi, Gentaro Yamazaki, Ryo Tanaka and Takeshi Shiono (Japan)..... 667 | benzothienoisindigo copolymer for organic photovoltaics <u>Marina Ide</u> , Yoshiko Koizumi and Akinori Saeki (Japan) 683 |
| S-5 Optics, Electronics and Energy | | |
| 16P-S5-020b | Effect of polymer structure on dielectric relaxation behavior of polycarbonate-based electrolytes <u>Kaori Kobayashi</u> , Hidekazu Kodama, Takeo Furukawa and Yoichi Tominaga (Japan)..... 668 | 16P-S5-036b Sensitizer-free Photon Upconversion System through S_0-T_1 Absorption <u>Keisuke Okumura</u> , Prasenjit Mahato, Nobuhiro Yanai and Nobuo Kimizuka (Japan) 684 |
| 16P-S5-021a | Emergence of a New Near-IR Photoluminescence of Carbon Nanotubes by Adjacent Chemical Modification <u>Tomonari Shiraishi</u> , Tomohiro Shiraki and Naotoshi Nakashima (Japan) 669 | 16P-S5-037a Lewis acid modification of thiocyanate anion in ionic liquids and sodium salt to fabricate solid ion conductor. <u>Yui Oki</u> and Makoto Moriya (Japan) 685 |
| 16P-S5-022b | Versatile Molecular Functionalization for Inhibiting Concentration Quenching of Thermally Activated Delayed Fluorescence <u>Naoya Aizawa</u> , Jiyoung Lee and Takuma Yasuda (Japan) 670 | 16P-S5-038b Optimization of Electro-optical Properties and Thermodynamic Stability of Polymer-stabilized Liquid Crystal Blue Phases Based on Molecular Design of Bifunctional Monomer <u>Gimpei Machida</u> , Hiroki Higuchi, Yasushi Okumura, Masayuki Kabata, Daisuke Manai, Takeshi Kobayashi, Jun-ichi Matsumoto and Hirotsugu Kikuchi (Japan) 686 |
| 16P-S5-023a | Full-Color Tunable Organic Upconversion Light-Emitting Devices <u>Hiroki Tachibana</u> , Naoya Aizawa, Yu Hidaka and Takuma Yasuda (Japan) 671 | 16P-S5-039a Lattice Orientation Dependence of Electro-optical effect in Polymer-Stabilized Liquid Crystal Blue Phases <u>Takahiro Masuda</u> , Yasushi Okumura, Hiroki Higuchi and Hirotsugu Kikuchi (Japan)..... 687 |
| 16P-S5-024b | Solution-Processed Organic Field-Effect Transistors based on Highly Ordered Crystalline Thin Films <u>Tatsuya Mori</u> , Tatsuya Oyama, Yu Seok Yang, Hideaki Komiyama and Takuma Yasuda (Japan) 672 | 16P-S5-040b Room-temperature phosphorescence by nano-fibrillar of thiophene derivative in dilute dispersion state <u>Kyohei Yoshida</u> , Yutaka Kuwahara, Seiya Nakashima, Koji Miyamoto, Hirokuni Jintoku, Makoto Takafuji and Hirotsugu Ihara (Japan) 688 |
| 16P-S5-025a | Synthesis and Properties of Bisphenol B Novolac Resin as a Photo-resist Material <u>Toshiyasu Nishimura</u> and Hirohito Yamasaki (Japan) 673 | 16P-S5-041a Novel conductivity composite films with nitrogen doped carbon nanotubes supported nano metal particles <u>Ousuke Shigehiro</u> and Toshiyuki Watanabe (Japan) . 689 |
| 16P-S5-026b | Synthesis of Low-band gap block-copolymer and evaluation of the performance as a hole-transporting material of organic solar cells <u>Sicong Qian</u> , (Japan)..... 674 | 16P-S5-042b Charging/Discharging Properties of Radical Hybrid Batteries Employing TEMPO-Substituted Polymers and Lithium Metal Oxides as Cathode <u>Tomomi Masui</u> , Hiroshi Tokue, Kenichi Oyaizu and Hiroyuki Nishide (Japan) 690 |
| 16P-S5-027a | Development of novel electrocatalyst for water electrolysis anode based on iridium nanoparticles on carbon nanotubes <u>Yilei Shi</u> , Jun Yang, Tsuyohiko Fujigaya and Naotoshi Nakashima (Japan) 675 | 16P-S5-043a Synthesis of Lithium Poly(4-styrene sulfamidate) as Electrolyte Membrane for Lithium Sulfur Battery <u>Toshiki Katoku</u> , Tomoyasu Tsuji, Takuma Kawai, Kenichi Oyaizu and Hiroyuki Nishide (Japan) 691 |
| 16P-S5-028b | Anion Exchange Membranes Composed of Fluoroalkyl and Ammonium-Functionalized Fluorenyl groups: Effect of the Hydrophilic Component <u>Mizuki Ozawa</u> , Junpei Miyake and Kenji Miyatake (Japan) 676 | 16P-S5-044b Photoluminescence spectral shift induced by sugar recognition on phenyl boronic acid-modified single-walled carbon nanotubes <u>Hisashi Onitsuka</u> , Tomohiro Shiraki and Naotoshi Nakashima (Japan) 692 |
| 16P-S5-029a | Sulfonated aromatic polymers containing phosphine oxide groups as chemically stable proton exchange membranes <u>Ibuki Hosaka</u> , Ryo Akiyama, Junpei Miyake and Kenji Miyatake (Japan) 677 | 16P-S5-045a Find the best durable carbon nanotube to use as catalyst support in proton exchange membrane fuel cells. <u>Don Terrence Dhammika Weerathunga</u> , Tsuyohiko Fujigaya and Naotoshi Nakashima (Japan)..... 693 |
| 16P-S5-030b | Hole Transport Process in Perovskite Crystal / Conjugated Polymer Heterojunction <u>Naoki Ishida</u> , Atsushi Wakamiya and Akinori Saeki (Japan) 678 | 16P-S5-046b Preparation and Evaluation of Polymer Electrolyte Membrane Based on Sulfoalkylated Polybenzimidazoles <u>Hoon Han</u> , Tsuyohiko Fujigaya and Naotoshi Nakashima (Japan)..... 694 |
| 16P-S5-031a | Charge Dynamics at Heterojunction between Face-on/Edge-on PCPDTBT and PCBM Bilayer: Interplay of Donor/Acceptor Distance and Local Charge Carrier Mobility <u>Yoshiki Shimata</u> , Marina Ide, Akinori Saeki, Motomichi Tashiro, Michio Katouda and Yutaka Imamura (Japan) 679 | 16P-S5-047a Synthesis of CO ₂ /epoxide copolymers having carbonate side chains for solid polymer electrolytes <u>Gouta Kimoto</u> , Takashi Morioka and Yoichi Tominaga (Japan)..... 695 |
| 16P-S5-032b | Molecular consideration of aromatic proton conducting copolymers: effect of hydrophilic and hydrophobic components <u>Reika Oida</u> , Ryo Akiyama, Junpei Miyake and Kenji Miyatake (Japan) 680 | 16P-S5-048b Development of Air-stable n-type Thermoelectric Materials with Benzimidazole-doped Single-walled Carbon Nanotubes <u>Yuki Nakashima</u> , Tsuyohiko Fujigaya and Naotoshi Nakashima (Japan) 696 |
| 16P-S5-033a | Emerging persistent red and far-red CPL- and CD-active polymer aggregate by scaffolding photoscissible helical polysilanes <u>Shosei Yoshimoto</u> and Michiya Fujiki (Japan)..... 681 | 16P-S5-049a Nitrogen-doped carbon materials with high porosity synthesized from covalent organic frameworks <u>Gayoung Kim</u> , Tomohiro Shiraki and Naotoshi Nakashima (Japan) 697 |
| 16P-S5-034b | Synthesis, Characterization, and Organic Photovoltaics Applications of Thienoisindigo-Based Molecules <u>Yuhei Takeuchi</u> , Kazuhiro Nakabayashi and Hideharu Mori (Japan) 682 | 16P-S5-050b Development of Lithium Air Battery Cathode using Carbon Nanotube wrapped by Polyimide <u>Ryota Kanamori</u> , Tsuyohiko Fujigaya, Il-Chang Jang, Tatsumi Ishihara and Naotoshi Nakashima (Japan) .. 698 |
| 16P-S5-035a | Controlling molecular orientation of | 16P-S5-051a Application and development of <i>N</i> -methylated polybenzimidazole as an electrolyte in anion exchange membrane fuel cell <u>Ziyi Han</u> , Tsuyohiko Fujigaya and Naotoshi Nakashima (Japan)..... 699 |
| | | 16P-S5-052b Development of semitransparent organic thin film solar cell using ZnO nanoparticle modified Ag Nanowire film |

| | | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <u>Yuki Matsumoto</u> , Yukika Asano and Atsushi Aoki (Japan) 700 | Post-Polymerization Conversion <u>Yuki Ishido</u> , Naoya Kanbayashi, Taka-aki Okamura and Kiyotaka Onitsuka (Japan) 717 |
| 16P-S5-053a | The relationship between molecular mobility and conductivity of carbonate oligomer-based electrolytes <u>Katsuhiro Kaetsu</u> , Kazutoshi Yokomachi, Ken Kojio and Atsushi Takahara (Japan) 701 | 16P-G1-072b Control of Mechanical Responsiveness Based on Electronic State Change of Tetraarylsuccinonitrile Units in Mechanochromic Polymers <u>Toshikazu Sumi</u> , Raita Goseki and Hideyuki Otsuka (Japan) 718 |
| 16P-S5-054b | Photoluminescence of carbon dots using energy transfer systems <u>Koichiro Uchida</u> , Tomohiro Shiraki and Naotoshi Nakashima (Japan) 702 | 16P-G1-073a Comprehensive Study of Thermo-Oxidative Degradation in Recombinant Spider Silk <u>Anh T.N. Dao</u> , Koyuru Nakayama, Jun'ichi Shimokata and Toshiaki Taniike (Japan) 719 |
| 16P-S5-055a | Ion-Conductive Properties of Mg-based gel polymer electrolytes <u>Maito Koga</u> , Yuki Shoda, Ryoichi Yagisawa, Hideaki Oike and Yoichi Tominaga (Japan) 703 | 16P-G1-074b Novel Type of Alternating Copolymerization Based on Successive Insertion of Isocyanide and Acetylene into Palladium-Carbon Bond <u>Yuki Kataoka</u> , Naoya Kanbayashi, Taka-aki Okamura and Kiyotaka Onitsuka (Japan) 720 |
| 16P-S5-056b | Investigation of platinum utilization efficiency of polybenzimidazole-wrapped carbon black in polymer electrolyte membrane fuel cells <u>Samindi Madhubha Jayawickrama</u> , Tsuyohiko Fujigaya and Naotoshi Nakashima (Japan) 704 | 16P-G1-075a Effect of Crystallinity on Mechanochromism of Mechano-responsive Polymers Based on Bond Dissociation <u>Shigeki Furukawa</u> , Hironori Oka, Raita Goseki and Hideyuki Otsuka (Japan) 721 |
| 16P-S5-057a | Refractive index control with photopolymerization for optical waveguide applications <u>Ryota Shiraishi</u> , Hiroshi Owari and Takeshi Ito (Japan) 705 | 16P-G1-076b Synthesis and Properties of Novel Polyurethanes Containing Azine Moiety in the Main Chain <u>Yuya Yamagishi</u> and Hiroaki Kouzai (Japan) 722 |
| 16P-S5-058b | Synthesis and Characterization of Benzobisthiazole-Naphthobisthiadiazole Semiconducting Polymers for Solar Cell Applications <u>Eman Rashid Al-Naamani</u> , Marina Ide and Akinori Saeki (Japan) 706 | 16P-G1-077a Synthesis of Novel UV-curable Resin Using Isosorbide <u>Mioka Osugi</u> and Hiroaki Kouzai (Japan) 723 |
| 16P-S5-059a | Reversible mechanofluorochromism of cyanostilbene derivatives with donor-acceptor electronic structures. <u>Kohei Isayama</u> , Jun Yun Kim, Naoya Aizawa and Takuma Yasuda (Japan) 707 | 16P-G1-078b Synthesis of Block Copolymers of Polyester and Polystyrene via Cross Metathesis of Cyclic Unsaturated Polyesters with Difunctional Olefins. <u>Ryouichi Okabayashi</u> , Yoshihiro Ohta and Tsutomu Yokozawa (Japan) 724 |
| 16P-S5-060b | Photochromic Behavior of a Ferrocene-Viologen linked Redox-Active Ionic Liquid <u>Kodai Iwanaga</u> , Hironobu Tahara and Hiroto Murakami (Japan) 708 | 16P-G1-079a Optimization of synthesis of polypeptides by means of chain-growth condensation polymerization of amino acid monomers immobilized on polynorbornene support <u>Ami Morimitsu</u> , Yoshihiro Ohta and Tsutomu Yokozawa (Japan) 725 |
| 16P-S5-061a | Synthesis and Evaluation of Polycarbosilanes Having 5-Membered Cyclic Carbonate Groups as Solid Polymer Electrolytes <u>Kozo Matsumoto</u> , Miho Kakehashi, Hirotaka Ouchi and Takeshi Endo (Japan) 709 | 16P-G1-080b Catalyst-transfer condensation polymerization of thiophene-fluorene biaryl monomer with AmPhosPd catalyst. <u>Yu Tokita</u> , Kentaro Kosaka, Yoshihiro Ohta and Tsutomu Yokozawa (Japan) 726 |
| 16P-S5-062b | Preparation and Characterization of Plastic Dye Sensitized Solar Cells using TiO ₂ Composite Electrode with Inorganic Nanotube. <u>Kazuya Yamamoto</u> , Shin Nishida, Honami Omoto, Rattana Ceesay, Pornchanok Sirjaturaporn, Saranunt Teanmetawong and Supicha Stienkijumapai (Japan) 710 | 16P-G1-081a Control of molecular weight and end-functional groups by cross metathesis of cyclic unsaturated polycarbonate obtained by A ₂ + B ₂ polycondensation <u>Tsuyoshi Namekawa</u> , Ryouichi Okabayashi, Yoshihiro Ohta and Tsutomu Yokozawa (Japan) 727 |
| 16P-S5-063a | Degradation analysis of organic photovoltaics by ESR spectroscopy <u>Satoru Shimomura</u> , Toshihiro Yamanari, Hideo Ohkita, Shinzaburo Ito and Kazuhiro Marumoto (Japan) 711 | 16P-G1-082b New Approach for Optically Active Polymer: Combination of Asymmetric polymerization and Post-polymerization Conversion <u>Naoya Kanbayashi</u> , Sou Miyamoto, Taka-aki Okamura and Kiyotaka Onitsuka (Japan) 728 |
| 16P-S5-064b | Carbon Nanofiber Electrodes for Supercapacitors <u>Kyung-Hye Jung</u> , Ye Ji Son and So Jeong Kim (Korea.) 712 | 16P-G1-083a Metal nanoparticle induced gel formation of polyurethanes with disulfide bonding <u>Yoko Iki</u> , Yusuke Nagae, Hideyuki Otsuka, Tomoyasu Hirai and Atsushi Takahara (Japan) 729 |
| | G-1 Polymer Synthesis and Reactions | 16P-G1-084b Chemoselective radical polymerization of <i>N</i> -allylmethacrylamide in the presence of Li salts <u>Yuta Ogasa</u> , Miyuki Oshimura, Tomohiro Hirano and Koichi Ute (Japan) 730 |
| 16P-G1-067a | The effect of Chemical Structure of Poly(N-vinylamide)s for Thermal Crosslinking Reaction <u>Ryo Kawatani</u> , Kai Kan, Mituru Akashi and Hiroharu Ajiro (Japan) 713 | 16P-G1-085a Induction of change in higher-order structure of a polypeptide by the reaction using dynamic covalent bonds introduced in its side chains <u>Kazutoshi Nakagawa</u> , Yukina Kitahara, Yuki Inoue, Yuichiro Tokoro and Toshiyuki Oyama (Japan) 731 |
| 16P-G1-068b | Synthesis of Necklace Shaped Dimethylsiloxane Polymers Bearing a Polyhedral Oligomeric Silsesquioxane Cage <u>Tsubasa Natsuaki</u> , Yusaku Kan, Naohiro Katsuta, Satoshi Watanabe, Kazuya Suwa, Tomoyuki Ooba and Masashi Kunitake (Japan) 714 | 16P-G1-086b Cationic polymerization of vinyl ethers in the presence of Li salts <u>Nejji Munekane</u> , Miyuki Oshimura, Tomohiro Hirano and Koichi Ute (Japan) 732 |
| 16P-G1-069a | Practical synthesis and polymerization of dithienoarsoles <u>Hiroaki Imoto</u> , Takuji Kato and Kensuke Naka (Japan) 715 | 16P-G1-087a Synthesis and Optoelectronic Functions of Poly(pyridinium salt)s by Three-component Coupling Reaction of Poly(arylene-ethynylene) Derivatives with Ketones and Amines via C-H Activation Process <u>Makoto Sakata</u> , Hiroki Nishiyama, Shinsuke Inagi and Ikuyoshi Tomita (Japan) 733 |
| 16P-G1-070b | Precise synthesis of PMMA with well-controlled stereoregularity and characterization of its hierarchal structure. <u>Hitoshi Shimamoto</u> , Tomoki Kato, Masanao Sato, Tomoyasu Hirai and Atsushi Takahara (Japan) 716 | 16P-G1-088b Synthesis and characterization of conjugated |
| 16P-G1-071a | Novel Synthetic Approach of Helical Non-natural Polypeptide via Asymmetric Polymerization and | |

| | | | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | cyclophane-trienes comprising cyclopentadithiophenes and their ring-opening metathesis polymerization <u>Shih-Ting Chiu</u> , Hsin-Yu Chang and Masaki Horie (Taiwan)..... 734 | | |
| 16P-G1-089a | Fabrication of Organic/Inorganic Nanohybrid Materials by Use of Polymer Nanostructures Obtained by Living Coordination Block Copolymerization of Allene Derivatives. <u>Miho Yamamoto</u> , Yoshiyuki Oguchi, Takeshi Wakiya, Tadashi Iwamoto, Hiroki Nishiyama, Shinsuke Inagi and Ikuyoshi Tomita (Japan) 735 | 16P-G3-107a | Characterization of mesoporous polymer monolith prepared by hydrolysis degradation of poly(lactic acid) blends. <u>Tomoko Shirahase</u> , Shuichi Akasaka and Shigeo Asai (Japan)..... 751 |
| 16P-G1-090b | Practical synthetic method of organoarsenic compounds by arsenic nucleophiles generated from cyclooligoarsines. <u>Susumu Tanaka</u> , Hiroaki Imoto and Kensuke Naka (Japan) 736 | 16P-G3-108b | Polymer Film Sealing by Using Laser Advanced Welding of Plastics <u>Kazushi Yamada</u> , (Japan)..... 752 |
| 16P-G1-091a | Synthesis and Characterization of New Functional Materials Based on Phenolic Compounds <u>Takahiro Kakuta</u> , Tomoki Ogoshi and Tada-aki Yamagishi (Japan)..... 737 | 16P-G3-109a | Co-operative Structures and Functionality Constructed by Hydrophilic Polymers and Polyiodide Ions. (1): Hierarchic Structure as "Pseudo Solvent" for Multiple Diffusion. <u>Akio Kawaguchi</u> , (Japan)..... 753 |
| 16P-G1-092b | Synthesis of alternating copolymers consisting of perfluoroalkyl and oligoethyleneglycol units by photoinduced radical polyaddition. Tadashi Kanbara, Kana Sasahara, Saki Nakamura and <u>Tomoko Yajima</u> (Japan) 738 | 16P-G3-110b | Co-operative Structures and Functionality Constructed by Hydrophilic Polymers and Polyiodide Ions. (2): "Dynamic Amphiphilicity" Hypothesized by Experimental Results and What It Suggests as the Next. <u>Akio Kawaguchi</u> , (Japan)..... 754 |
| 16P-G1-093a | Synthesis of Polymer Particles Having Specific Microphase-separated Structures Based on Living Coordination Dispersion Block Copolymerization of Allene Derivatives <u>Shiho Tanaka</u> , Yoshiyuki Oguchi, Takeshi Wakiya, Tadashi Iwamoto, Hiroki Nishiyama, Shinnsuke Inagi and Ikuyoshi Tomita (Japan)..... 739 | 16P-G3-111a | The effect of VA content and MFI of EVA on Morphology, Mechanical and Thermal properties of PLA/EVA blends <u>Chanchai Thongpin</u> and Suwijak Kranmool (Thailand) 755 |
| 16P-G1-094b | Synthesis of Phenolic Resin with Ladder Shaped Network <u>Hiroataka Shouji</u> , Takahiro Kakuta, Tomoki Ogoshi and Tada-aki Yamagishi (Japan)..... 740 | 16P-G3-112b | Evaluation of Physical and Surface Replication Properties of Liquid Silicone Rubbers Obtained by Injection Molding <u>Taisuke Satoh</u> , Hiroshi Ito, Akihiko Nemoto and Akira Ishigami (Japan)..... 756 |
| 16P-G1-095a | Expanded Tandem RO/RCM polymerization & Multiple Olefin Metathesis Polymerization : New Approach for Successful Polymerization of Expanded monomers and their mechanistic studies Ho-keun Lee and Tae-Lim Choi (Korea.) 741 | 16P-G3-113a | Surface Replication and Hydrophobicity of Polymer Films Obtained by Thermal Imprinting <u>Hiroto Shishido</u> , Akihiko Nemoto, Hiroshi Ito, Junpei Fujiwara and Masatoshi Kawata (Japan) 757 |
| 16P-G1-096b | The First Successful Cyclopolymerization of 1,6-Heptadiynes by Grubbs 1st generation catalyst <u>Cheol Kang</u> , Eun-Hye Kang and Tae-Lim Choi (Korea.) 742 | | G-4 Functional Polymers |
| 16P-G1-097a | Tributylborane and oxygen as the initiator for Styrene polymerization <u>Yusuke Naruoka</u> and Ryuichi Sugimoto (Japan)..... 743 | 16P-G4-116b | Self-assembled polymer capsules with molecular permeable membrane for intercellular bionanoreactor. <u>Tomoki Nishimura</u> , Sada-atsu Mukai, Shinichi Sawada, Yoshihiro Sasaki and Kazunari Akiyoshi (Japan) 758 |
| 16P-G1-098b | Oxidative Coupling Copolymerization of Various Phenol Derivatives <u>Yuki Takamushi</u> , Shigeyuki Iwai, Ryosuke Ito and Shigeki Habaue (Japan) 744 | 16P-G4-117a | Aminated cellulose nano-fibers for removal of endotoxin from viscous polymer solution <u>Towako Sakamoto</u> , Risa Harada, Daisuke Nakamura, Yuki Maeda and Masayo Sakata (Japan) 759 |
| 16P-G1-099a | Graft polymerization of vinyl compounds onto polyolefin film <u>Hirotsugu Matsukuma</u> and Ryuichi Sugimoto (Japan) 745 | 16P-G4-118b | Palmitoylated amino acids as supramolecular gelators for ionic liquids <u>Witta Kartika Restu</u> , Yuki Nishida and Tatsuo Maruyama (Japan)..... 760 |
| 16P-G1-100b | Synthesis and Cyclopolymerization of N-Aryl Substituted Diallylamines <u>Yoko Aoyama</u> , Fumika Muramatsu and Boualiong Chia Xia Lee (Japan)..... 746 | 16P-G4-119a | Hydrogel composed of DNA-gold nanoparticle prepared by polymerase chain reaction <u>Yuka Eguchi</u> , Tomoharu Kato, Tsutomu Tanaka and Tatsuo Maruyama (Japan) 761 |
| 16P-G1-101a | High stereoregular polymerization of butadiene by Nd complex catalyst. <u>Katsuhiro Iwase</u> , Kimio Imaizumi and Yuji Kosugi (Japan) 747 | 16P-G4-120b | Preparation of gel emulsion by in-situ synthesis of peptide-based supramolecular gelators <u>Yuki Nishida</u> , Akiko Tanaka and Tatsuo Maruyama (Japan)..... 762 |
| 16P-G1-102b | Cyclopolymerization of 1,6-Heptadiynes Using Grubbs Z-selective Catalyst toward Unprecedented β -selectivity for Ru-based Catalysts <u>Kijung Jung</u> and Tae-Lim Choi (Korea.)..... 748 | 16P-G4-121a | Dispersion of graphene in an organic solvent using poly(3-hexylthiophene) <u>Hiroki Iguchi</u> , Chisato Higashi, Yuichi Funasaki, Keisuke Fujita, Atsunori Mori, Akira Nakasuga and Tatsuo Maruyama (Japan) 763 |
| | G-3 Polymer Processing | 16P-G4-122b | Surface modification of metal nanoparticles using a polymerizable surfactant <u>Chisato Higashi</u> , Yuichi Funasaki and Tatsuo Maruyama (Japan)..... 764 |
| 16P-G3-105a | Suitable outer/inner viscosity ratio of polymer solutions for coaxial electrospinning of core-shell fibers <u>Navaporn Kaerkitcha</u> , Surawut Chuangchote, Kan Hachiya and Takashi Sagawa (Japan) 749 | 16P-G4-123a | Introduction of carboxy groups to plastic surfaces by segregation of fluorine-containing polymers <u>Keisuke Nishimori</u> , Shigeru Kitahata, Ayane Shimomura, Takashi Nishino and Tatsuo Maruyama (Japan) 765 |
| 16P-G3-106b | Surface Replication of Microneedle Array Structure using Hot Roll Imprinting <u>Yuki Maeda</u> , Akihiko Nemoto and Hiroshi Ito (Japan) 750 | 16P-G4-124b | Phase behavior of polyampholytes derived from ionic liquids showing LCST-type phase change in water <u>Akiyoshi Okafuji</u> , Yuki Kohno and Hiroyuki Ohno (Japan)..... 766 |
| | | 16P-G4-125a | Preparation of cyclic oligosiloxane indicating protic ionic liquid nature <u>Tomotada Hirohara</u> , Takashi Kai, Joji Ohshita and |

| | | |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16P-G4-126b | Yoshiro Kaneko (Japan)..... 767 Preparation and properties of imidazolium-salt-type room temperature ionic liquids containing POSS structures <u>Daisuke Maeda</u> and Yoshiro Kaneko (Japan)..... 768 | polymer <u>Hiroki Arazoe</u> , Daigo Miyajima and Takuzo Aida (Japan) 785 |
| 16P-G4-127a | Preparation of a single-structured carboxylate-group-containing cyclotetrasiloxane, formation of its two-dimensional layered aggregate, and application to hybrid hydrogels <u>Makoto Yanagie</u> , Nobuyoshi Miyamoto and Yoshiro Kaneko (Japan)..... 769 | 16P-G4-144b High Refractive Epoxy/ZrO ₂ Nano-hybrid Optical Materials Prepared by Surface Modifier-free Hybridization Method <u>Kazushi Enomoto</u> , Moriya Kikuchi, Atsushi Narumi and Seigou Kawaguchi (Japan) 786 |
| 16P-G4-128b | Preferential preparation of cage-like decasilsesquioxane containing ammonium side-chain groups <u>Kenta Imai</u> and Yoshiro Kaneko (Japan)..... 770 | 16P-G4-145a Development and application of cationic oligoether with ionic liquid moieties <u>Yohei Tateishi</u> , Keisuke Ohta and Shigetaka Hayano (Japan)..... 787 |
| 16P-G4-129a | A Facile Method to Prepare Cylindrical Polystyrene Particles <u>Wei Li</u> , Toyoko Suzuki and Hideto Minami (Japan). 771 | 16P-G4-146b Preparation of Soluble Silsesquioxane Containing Two Carboxyl Groups in One Repeating Unit <u>Jiahao Liu</u> and Yoshiro Kaneko (Japan) 788 |
| 16P-G4-130b | Helical Twisting Behavior of Biphenanthrene-type Chiral Dopants in Liquid Crystal Phase <u>Daisuke Yoshizawa</u> , Hiroki Higuchi, Yasushi Okumura and Hirotsugu Kikuchi (Japan) 772 | 16P-G4-147a Preparation and Characteristics of Soluble Rod-like Polysilsesquioxane Containing Phosphonate Side-chain Groups <u>Akiyuki Harada</u> , Kazuhiro Shikinaka, Joji Ohshita and Yoshiro Kaneko (Japan) 789 |
| 16P-G4-131a | Synthesis of cyclopentadithiophene-benzoic acid based conjugated polymers for use as polymer binder in Si based lithium ion batteries <u>KuoLung Wang</u> and Masaki Horie (Taiwan)..... 773 | 16P-G4-148b Chromatographic separation of DNA from bio-product solution by density-controlled cationic polymer <u>Toshiaki Marugame</u> , Eri Ikegami, Kazuya Matsumoto and Masayo Sakata (Japan) 790 |
| 16P-G4-132b | Syntheses of optically-active <i>delta</i> -truxinic acid derivatives and its polymerization to prepare aromatic bio-based polyamides <u>Jun-ya Okuda</u> , Seiji Tateyama and Tatsuo Kaneko (Japan) 774 | 16P-G4-149a Preparation of Copolymer Using Thermosensitive Poly(Trimethylene Carbonate) Derivatives with Oligo(ethylene glycol) Units and Polylactides <u>Yoshiaki Haramiishi</u> , Nalinthip Chantaset, Kai Kan and Hiroharu Ajiro (Japan)..... 791 |
| 16P-G4-133a | Mechanism of Emulsion Polymerization with Bio-Surfactant <u>Aya Kurozuka</u> , Shohei Onishi, Takuto Nagano, Katsumi Yamaguchi, Toyoko Suzuki and Hideto Minami (Japan) 775 | 16P-G4-150b Cyclodextrin-immobilized cellulose nanofibers for selective removal of endotoxin from protein solution <u>Sho Kinoshita</u> , Taku Matsuo, Yui Shimazu, Daisuke Nakamura, Yuki Maeda and Masayo Sakata (Japan) 792 |
| 16P-G4-134b | Preparation of Silicone Particles via Ring-opening Polymerization of Cyclic Siloxane in Aqueous Medium <u>Hiroki Mitsui</u> , Satoshi Ikubo, Toyoko Suzuki and Hideto Minami (Japan)..... 776 | 16P-G4-151a Amphiphilic Monomer to Fabricate High Functional Hydrogel <u>Md Anamul Haque</u> , Mito Kei, Takayuki Kurokawa, Tasuku Nakajima, Takayuki Nonoyama and Jian Ping Gong (Japan)..... 793 |
| 16P-G4-135a | Synthesis of Helical Polyisocyanides Derived from Amino Acids and Their Application to Chiral Stationary Phases <u>Yuya Wada</u> , Yugaku Takagi, Tomoyuki Ikai, Katsuhiro Maeda and Shigeyoshi Kanoh (Japan)..... 777 | 16P-G4-152b Double thermo-responsive diblock copolymer composed of thermo-responsive ionic liquid polymer <u>Kohei Itsuki</u> , Shin-ichi Yusa and Pratap Bahadur (Japan) 794 |
| 16P-G4-136b | Development of Amylose- and Cyclodextrin-Based Chiral Fluorescent Sensors Bearing Terthienyl Pendants <u>Changsik Yun</u> , Daisuke Suzuki, Yutaka Kojima, Tomoyuki Ikai, Katsuhiro Maeda and Shigeyoshi Kanoh (Japan) 778 | 16P-G4-153a Supramolecular Polymer and Carbon Nanotube Composite for Personal Monitoring of Chemical Warfare Agent <u>Shinsuke Ishihara</u> , Joseph M. Azzarelli, Markrete Krikorian and Timothy M. Swager (Japan) 795 |
| 16P-G4-137a | Synthesis of Polymer Particles Containing Reduced Graphene Oxide Utilizing Poly(ionic liquid) as Stabilizer <u>Mitsuyoshi Yamane</u> , Masayoshi Tokuda, Stuart C Thickett, Per B Zetterlund and Hideto Minami (Japan) 779 | 16P-G4-154b Synthesis of nanosheet LC/ Polyimide Composites <u>Natsuki Hirata</u> , Yutaka Ohsedo and Nobuyoshi Miyamoto (Japan) 796 |
| 16P-G4-138b | Synthesis, Characterization, and Self-assembly of Polyphenylenes with Oligothiophene Side Chains <u>Karin Fujita</u> , Kazuhiro Nakabayashi and Hideharu Mori (Japan)..... 780 | 16P-G4-155a Peroxidase-like catalytic activity based on branched oligo (glycerol)-vanadium element blocks <u>Yudai Kozono</u> and Tooru Ooya (Japan) 797 |
| 16P-G4-139a | Synthesis and Chiroptical Properties of π -Conjugated Polymers Containing Glucose-Linked Biphenyl Units in the Main Chain <u>Syo Shimizu</u> , Tomoya kudo, Tomoyuki Ikai, Katsuhiro Maeda and Shigeyoshi Kanoh (Japan)..... 781 | 16P-G4-156b Synthesis of Cellulose Derivatives Bearing Benzodithiophene-based π -Conjugated Pendants for Use as Chiral Fluorescent Sensors <u>Daisuke Suzuki</u> , Yutaka Kojima, Changsik Yun, Tomoyuki Ikai, Katsuhiro Maeda and Shigeyoshi Kanoh (Japan)..... 798 |
| 16P-G4-140b | Synthesis and thermal property analysis of stereo-block copolymer having a 2,4-diamino-s-triazinyl group <u>Kohei Osaki</u> and Toshiyuki Watanabe (Japan)..... 782 | 16P-G4-157a Synthesis of Temperature-responsive Poly(N-isopropylacrylamide)-block-poly(acrylic acid) Exhibiting LCST at Wide pH Range by Oragano Tellurium Mediated Living Radical Polymerization <u>Chisa Norioka</u> , Akifumi Kawamura and Takashi Miyata (Japan)..... 799 |
| 16P-G4-141a | Synthesis of a Helical Polyisocyanide Bearing Benzo[1,2- <i>b</i> :4,5- <i>b'</i>]dithiophene-Based π -Conjugated Pendants and Its Application to Circularly Polarized Luminescence Materials <u>Mitsuhiro Okubo</u> , Yuya Wada, Yugaku Takagi, Tomoyuki Ikai, Katsuhiro Maeda and Shigeyoshi Kanoh (Japan)783 | 16P-G4-158b Synthesis and Properties of High Refractive Index Polymers by Oxidative Polymerization of Alkyl-Substituted Diphenyl Disulfides <u>Yoko Tanaka</u> , Minato Aoki, Naoto Takasu, Kenichi Oyaizu and Hiroyuki Nishide (Japan)..... 800 |
| 16P-G4-142b | Network structure and photoresponsivity in end crosslinked polymer gel using novel crosslinker <u>Mizuki Kujirai</u> and Toshiyuki Watanabe (Japan) 784 | 16P-G4-159a Colorimetric Chiral Recognition of Chiral Amines by Macromolecular Reaction with a Poly(diphenylacetylene) Derivative with Macromolecular Helicity Memory <u>Kentaro Yamanaka</u> , Katsuhiro Maeda, Tomoyuki Ikai and Shigeyoshi Kanoh (Japan) 801 |
| 16P-G4-143a | Ultra-high speed film actuator based on carbon nitride | |

| | | |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16P-G4-160b | Preparation of hollow silica particles with bumpy surface using polymer microspheres with silica nanoparticles-layered shell as template <u>Nanami Hano</u> , Alam A Md., Makoto Takafuji and Hirotaka Ihara (Japan)..... 802 | <u>Thanphisit Thongsima</u> and Suwabun Chirachanchai (Thailand)..... 819 |
| 16P-G4-161a | Photofomation of Surface Relief Gratings on Diacetylene Derivative Film <u>Youta Iwamoto</u> and Takashi Ubukata (Japan)..... 803 | 16P-G4-178b Preparation of Polymer Based Au-Fe ₃ O ₄ Nanoparticles and Catalytic Application for Reduction of 4-nitrophenol <u>Soohee Kim</u> , Hyemin Kwon, Eunji Kim, Buhyun Youn, Sungkyun Park and Kang Hyun Park (Korea.)..... 820 |
| 16P-G4-162b | Bridged polysilsesquioxane membrane containing 1,2,3-triazole moieties for water desalination <u>Kazuki Yamamoto</u> , Joji Ohshita and Toshinori Tsuru (Japan)..... 804 | 16P-G4-179a Drug-Releasing Supramolecular Gel Based on L-Lysine Hydrogelators <u>Masahiro Suzuki</u> , Ryosuke Suzuki and Kenji Hanabusa (Japan)..... 821 |
| 16P-G4-163a | Creation of Helical Rods Composed of α -Cyclodextrin <u>Sayaka Sonoda</u> , Ayumi Teragaki and Toshiyuki Kida (Japan)..... 805 | 16P-G4-180b Control of Supramolecular Hydrogelation time of L-Lysine Hydrogelators <u>Masahiro Suzuki</u> , Yuki Tomita and Kenji Hanabusa (Japan)..... 822 |
| 16P-G4-164b | Polymerization of bis(triethoxysilyl)biphenyl on chiral supramolecular template for fabrication of chiral organic-inorganic hybrid materials <u>Naoya Ryu</u> , Yutaka Okazaki, Tsutomu Kawaguchi, Shoji Nagaoka, Makoto Takafuji, Reiko Oda and Hirotaka Ihara (Japan)..... 806 | 16P-G4-181a Delamination of two-dimensional nanofillers by wet-type jet milling: Effect of medium viscosity <u>Yusuke Imai</u> and Yuji Hotta (Japan)..... 823 |
| 16P-G4-165a | Poly-Ionic liquid Nano Composite Film for Gel Polymer Actuator <u>Kumkum Ahmed</u> , Ajit Khosla, Masaru Kawakami and Hidemitsu Furukawa (Japan)..... 807 | 16P-G4-182b Flexible Transparent Electrodes Using PEDOT:PSS for Touch Panel Application <u>Takeo Mochizuki</u> , Yuki Takigami, Takahiro Kondo and Hidenori Okuzaki (Japan)..... 824 |
| 16P-G4-166b | Formation of dimple surface on polymer microspheres by embossing with silica nanoparticles <u>Yoshimi Takeda</u> , Hiroto Yamamoto, Makoto Takafuji and Hirotaka Ihara (Japan)..... 808 | 16P-G4-183a Moisture-retaining Carboxylated Cellulose Microbeads Prepared by TEMPO Oxidation <u>Tomohiro Shirotsaki</u> , Hiroshi Yanagita, Kentaro Hiraki, Maki Horikawa, Naoya Ryu, Shoji Nagaoka and Hirotaka Ihara (Japan)..... 825 |
| 16P-G4-167a | Chiral Stationary Phases Consisting of π -Conjugated Polymers Bearing Glucose-Linked Biphenyl Units: Reversible Switching of Resolution Abilities Based on Helix-Random Coil Transition <u>Tomoyuki Ikai</u> , Seiya Awata, Syo Shimizu, Katsuhiko Maeda and Shigeyoshi Kanoh (Japan)..... 809 | 16P-G4-184b PVAL Meniscus Personalized by Rapid Prototype <u>Celio H Wataya</u> and Gustavo Paschoal (Brazil)..... 826 |
| 16P-G4-168b | Dielectric property of dendritic Zn porphyrins axially coordinated with ditopic dipolar ligands <u>Shinya Uchino</u> , Keita Ishiba, Hui Joseph Ka Ho, Masa-aki Morikawa and Nobuo Kimizuka (Japan)..... 810 | 16P-G4-185a Photo-precipitation of Single Wall Carbon Nanotubes from the complex of photo reactive dispersant in film <u>Yuting Ke</u> and Shigeru Takahara (Japan)..... 827 |
| 16P-G4-169a | Preparation of Pd-supported polymer nanogel with high catalytic activity and long lifetime <u>Takanori Akiyoshi</u> , Hirokazu Seto, Yu Hoshino and Yoshiko Miura (Japan)..... 811 | 16P-G4-186b A fluorescent polymeric thermometer for the ratiometric sensing of intracellular temperature <u>Seiichi Uchiyama</u> , Toshikazu Tsuji, Kumiko Ikado, Kyoko Kawamoto, Teruyuki Hayashi and Noriko Inada (Japan)..... 828 |
| 16P-G4-170b | Application of polyzwitterion-grafted porous silica to hydrophilic interaction liquid chromatography <u>Kazufusa Sasahara</u> , Mohammad Shahruzzaman, Makoto Takafuji and Hirotaka Ihara (Japan)..... 812 | 16P-G4-187a Preparation of Fine Particles Capable of Adsorbing Carbon Dioxide via Inverse emulsion Method <u>KiSeob Hwang</u> and Jun-Young Lee (Korea.)..... 829 |
| 16P-G4-171a | Preparation of electrocatalytic nano-fibrils modified with Re complexes <u>Aiki Kamo</u> , Yutaka Kuwahara, Yuya Yamaguchi, Makoto Takafuji and Hirotaka Ihara (Japan)..... 813 | 16P-G4-188b Immobilization of glucoamylase on cellulose nanofibers by covalent binding for increased saccharification stability <u>Masayo Sakata</u> , Towako Sakamoto, Bido Nagahama and Masataka Tamiya (Japan)..... 830 |
| 16P-G4-172b | Soft and Flexible Sensors Based on Piezoionic Effect <u>Masaki Sato</u> , Takahiro Kondo, Takuya Yamagiwa and Hidenori Okuzaki (Japan)..... 814 | 16P-G4-189a Preparation of Room Temperature Ionic Liquid Containing Cage-like Oligosilsesquioxane with Two Types of Side-chain Groups <u>Yoshiro Kaneko</u> , Akiyuki Harada, Sayako Koge and Joji Ohshita (Japan)..... 831 |
| 16P-G4-173a | Size Selective Synthesis of Tin Oxide Clusters by Dendrimer Template Method and The Size Dependency for CO Oxidation Reaction <u>Yusuke Inomata</u> , Ken Albrecht and Kimihisa Yamamoto (Japan)..... 815 | 16P-G4-190b microwave-assisted phosphorylation of polymeric material and high performance of phosphorylated polymers. <u>Takumi Okihara</u> , Masato Yuasa, Hiroki Okajima and Ryota Kume (Japan)..... 832 |
| 16P-G4-174b | Influence of exposing light wavelength on the photoinduced reorientation of polymeric films with cinnamate mesogenic side groups <u>Hiromi Ikoma</u> , Mizuho Kondo and Nobuhiro Kawatsuki (Japan)..... 816 | 16P-G4-191a Chiral Recognition Property of Poly(phenylacetylene) with Chiral Receptors <u>Ryosuke Sakai</u> , Yoshinobu Mato, Satoshi Umeda, Katsuyuki Tsuda, Toshifumi Satoh and Toyoji Kakuchi (Japan)..... 833 |
| 16P-G4-175a | Facile fabrication of photoalignment film of non-photoreactive liquid crystalline polymer by top-coating of photoreactive monomer via H-bonds <u>Ryosuke Fujii</u> , Yu Fujioka, Satoshi Minami, Mizuho Kondo and Nobuhiro Kawatsuki (Japan)..... 817 | 16P-G4-192b Synthesis of chelate resin bound with amidinothio urea to porous polystyrene <u>Satomi Tanaka</u> , (Japan)..... 834 |
| 16P-G4-176b | Nematic-to-Columnar Geometrical Transformation of Liquid Crystalline Assembly by Supramolecular Polymerization of Discotic Dopant <u>Keiichi Yano</u> , Yoshimitsu Itoh, Fumito Araoka and Takuzo Aida (Japan)..... 818 | 16P-G4-193a One-pot multiple postmodification of π -conjugated polymer by direct chemical modification <u>Shunya Okayama</u> , Junji Watanabe and Atsushi Kimoto (Japan)..... 835 |
| 16P-G4-177a | Multi-branched polylactide ionomers for fine-tuning the microstructure of PLA | 16P-G4-194b Functional membrane to capture influenza virus prepared by radiation-induced graft polymerization <u>Kazuya Uezu</u> , Tokiya Watanabe and Keisuke Onitsuka (Japan)..... 836 |
| | | 16P-G4-195a Molecular design of functional membrane to capture porcine epidemic diarrhea virus <u>Tokiya Watanabe</u> and Kazuya Uezu (Japan)..... 837 |
| | | 16P-G4-196b Effect of Bamboo Powder in Polypropylene on the Sound Insulation <u>Semi Han</u> , Dong Wook Kim, Youngkwan Lee and |

| | | |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| | Baek-Jin Kim (Korea.)..... | 838 |
| 16P-G4-197a | High conductivation of PEDOT thin film using sulfated cellulose nanofiber as a dopant <u>Maki Horikawa</u> , Ryota Sumi, Tomohiro Shiroasaki, Naoya Ryu, Shoji Nagaoka and Hirotaka Ihara (Japan) | 839 |
| 16P-G4-198b | Thermal and Photo-curing Behaviors of Dual-curable Acrylate Adhesives <u>Jae Hyun Jung</u> , Hyuck Sik Wang, Seok Hyeon Kim and Kigook Song (Korea.)..... | 840 |
| 16P-G4-199a | Enhancement of the Electrical Conductivity of PEDOT:PSS Thin Films Using Secondary Dopant <u>Seok Hyeon Kim</u> , Hyuck Sik Wang, Jae Hyun Jung and Kigook Song (Korea.)..... | 841 |
| 16P-G4-200b | High conductivation of PEDOT-PSS/polymer composite thin film by curing with acryloyl monomer. <u>Shoji Nagaoka</u> , Maki Horikawa, Kazunari Sunata, Tomohiro Shiroasaki, Naoya Ryu and Hirotaka Ihara (Japan) | 842 |
| 16P-G4-201a | Facial control for polybutadiene/inorganic materials particles composite microsphere based on ene-thiol reaction <u>Shoji Nagaoka</u> , Kang Yangwon, Tomohiro Shiroasaki, Maki Horikawa, Naoya Ryu, Makoto Takafuji and Hirotaka Ihara (Japan) | 843 |