The 10th Japan-China Joint Symposium on Conduction and Photoconduction in Organic Solids and Related Phenomena



October 17–20, 2010 Co-op Inn Kyoto Kyoto, Japan

Sunday, October 17

17:30-19:30 Mixer

Monday, October 18

08:30–09:40 Opening ceremony

09:40-10:00 Break

Session 1

Chairperson: Kyuya Yakushi (Institute for Molecular Science)

10:00 M01 Bio-inspired Energy Conversion Systems

Lei Jiang (Institute of Chemistry, CAS)

10:20 M02 Using Oligomers to Study the Self-Assembly and Opto-Electronic Properties of Conjugated Systems *Qifan Yan, Dahui Zhao (Peking University)*

10:40 M03 π -Conjugated Molecular Crystals-Supramolecular Structure and Optical Properties $\underline{Yuguang\ Ma\ (Jilin\ University)}$

11:00 M04 Mechanism of Photochemical Modification on Structures and Electrical Properties of Ag(DCNQI)₂

<u>Toshio Naito (Hokkaido University)</u>, Hideyuki Sugawara, Tamotsu Inabe, Yoshinori Kitajima, Takeshi Miyamoto, Hironobu Niimi, Kiyotaka Asakura

11:20 M05 Quantum Phonon Effects on Photoinduced Insulator-To-Metal Transition Dynamics in Organic BEDT-TTF Salts

<u>Kenji Yonemitsu (Institute for Molecular Science)</u>, Yasuhiro Tanaka, Nobuya Maeshima

11:40 M06 A Spin-boson Theory of Magnetoresistance in Organic Semi-conducting Materials

Yao Yao, Wei Si, Xiaoyuan Hou, Chang-Qin Wu (Fudan University)

12:00–13:30 Lunch

Session 2

Chairperson: Daoben Zhu (Institute of Chemistry)

13:30 M07 Chemical Studies on Molecular Nanomagnets and Magnetic Semiconductors <u>Jing-Lin Zuo (Nanjing University)</u>, Xiao-Zeng You

13:50 M08 Studies of Organic Soft Magnets Containing Bithiazole Rings: Design and Magnetic Properties

Weilin Sun, Zhiquan Shen (Zhejiang University)

14:10 M09 Interplay between Localized Spins and Conduction Electrons in Molecular Crystals of Spin-polarized Donors Solids

Tadashi Sugawara (The University of Tokyho), Michio M. Matsushita, Hideji

Komatsu, Kentaro Suzuki

14:30 M10 Charge-Ordering Phase Transition in α'-(BEDT-TTF)₂IBr₂
Yue Yue, Kaoru Yamamoto, Mikio Uruichi, <u>Kyuya Yakushi (Institute for Molecular Science)</u>, Atsushi Kawamoto

14:50 M11 Structures and Properties of Charge-Transfer Complexes Based on a Flexible Donor Molecule MeSEDO-TTF

<u>Xiangfeng Shao (Lanzhou University)</u>, Yoshiaki Nakano, Hideki Yamochi, Koichiro Tanaka

15:10 M12 Successive Hysteretic Phases in HMTSF-TCNQ Induced by High Magnetic Field under Pressure

<u>Keizo Murata (Osaka City University)</u>, Keiichi Yokogawa, Kensuke Kobayashi, Kosuke Masuda, Takahiko Sasaki, Natarajan Rani Tamilselvan, Harukazu Yoshino, James S. Brooks, Denis Jérome, Mikio Uruichi, Kyuya Yakushi, Yoshio Nogami, Reizo Kato

15:30-15:50 Break

Session 3

Chairperson: Kenji Yonemitsu (Institute for Molecular Science)

15:50 M13 Shear Stress Effects on Spiropyrans

<u>Makoto Inokuchi (Tokyo University of Science, Yamaguchi)</u>, Shuhei Ohshima,

Ryosuke Sakai, Yukiko Shimizu, Yui Hanada, Kazuhiro Yabuuchi, Kyuya Yakushi,

Ichimin Shirotani

16:10 M14 A Mutation Model in Terms of Conjugated Polymer Li Ge, Sheng Li, Xin Sun (Fudan University)

16:30 M15 First-Principles Measurements of Electrical Conductivity in Organic Semiconductors by UPS: Direct Measurements of Charge Delocalization, Electron-Phonon Coupling and Band-Gap States

N. Ueno (Chiba University), S. Kera

16:50 M16 New Silicon-Bridged Molecule towards Bipolar Host: All-Phosphor White Organic Light-Emitting Device Exhibiting High Efficiency and Low Efficiency-Roll-Off

Shaolong Gong, Yonghua Chen, Chuluo Yang* (Wuhan University), Cheng Zhong, Jingui Qin, Dongge Ma*

17:10 M17 Phosphorescent Dendrimers for Solution Processable PLED Lixiang Wang (Changchun Institute of Applied Chemistry, CAS)

17:30 M18 Development of Water/Alcohol Soluble Conjugated Polyelectrolyte and Their Neutral Precursor as Highly Efficient Electron Injection Layer: Towards All Printable Polymer Light-Emitting Devices and Displays

<u>Yong Cao (South China University of Technology)</u>, Fei Huang, Hongbin Wu

17:50–19:30 Dinner

19:30–21:00 Poster Session

Tuesday, October 19

12:30-13:40 Lunch

Session 4 Chairperson:	Wenping Hu (Institute of Chemistry)
08:30 T01	Photo CELIV measurement of Organic Photovoltaic Cells at Low Temperatures Tomohiko Suzuki, Motoharu Yasui, Hiroyuki Tajima (The University of Tokyo)
08:50 T02	Infrared Spectroscopy of Charge Carriers in Regioregular Poly(3-Dodecylthiophene) and C ₆₀ Yukio Furukawa (Waseda University), Ken-ichi Kudo
09:10 T03	New Fullerene Derivative Acceptors for High Performance Polymer Solar Cells Youjun He, Guangjin Zhao, Yongfang Li (Institute of Chemistry, CAS)
09:30 T04	Interfacial Photocarrier Dissociation and Photovoltaic Effects in Molecular Donor-Acceptor Compounds
09:50 T05	Tatsuo Hasegawa (National Institute of Advanced Industrial Science and Technology (AIST), Japan), Jun'ya Tsutsumi Effect of Buffer Layer between Active Layer and Cathode on the Performance of Polymer Bulk Heterojunction Solar Cells Lijian Zuo, Xiaoxia Jiang, Ligong Yang, Hongzheng Chen (Zhejiang University)
10:10-10:30	Break
Session 5 Chairperson: 10:30 T06	Yukio Furukawa (Waseda University) Optoelectric Conversion by Organic Radical Photocells
10:50 T07	Kunio Awaga (Nagoya University) Achieving High Performance Polymer Solar Cells via Incorporating Alcohol/Water-Soluble Conjugated Polyelectrolytes as Cathode Interlayer: The Role of the Polymer-Cathode Interface on the Exciton Generation, Dissociation and Charge Collection Zhicai He, Chengmei Zhong, Chao He, Hongbin Wu (South China University of
11:10 T08	<u>Technology</u>), Yong Cao Organic Solar Cells Using Squarylium Dyes <u>Hiroyuki Nakazumi (Osaka Prefecture University)</u> , Takeshi Maeda, Shigeyuki Yagi
11:30 T09	n-Type Field-Effect Transistors Based on Thieno[3,2- <i>b</i>]thiophene-2,5-dione with Trifluoromethylphenyl Groups <u>Shiyan Chen (Tokyo Institute of Technology)</u> , Altan Bolag, Jun-ichi Nishida,
11:50 T10	Yoshiro Yamashita Design and Syntheses of Organic Semiconductors for High Performance Field-Effect Transistors Hongxiang Li (Shanghai Institute of Organic Chemistry, CAS), Rongjin Li, Qing Meng, Chengliang Wang, Wenping Hu, Daoben Zhu
12:10-12:30	Photo

Session	0	
Chairpe	erson: S	Shu Wang (Institute of Chemistry)
13:40	T11	Low-Voltage Organic Field-Effect Transistors
		<u>Hu Yan (University of Yamanashi)</u> , Hidenori Okuzaki
14:00	T12	Naphthodithiophene-Based Polymers for High Performance Organic Field-Effect
		Transistors
		I. Osaka (Hiroshima University), T. Abe, S. Shinamura, E. Miyazaki, K. Takimiya
14:20	T13	Organic Transistors Using Organic Charge-Transfer Complexes and Carbon
		Electrodes with the Use of Laser Processing
		Hiroshi Wada, Jun-ichi Inoue, <u>Takehiko Mori (Tokyo Institute of Technology)</u>
14:40	T14	Solution-Crystalized High-Mobility Organic Transistors
10		J. Takeya (Osaka University)
15:00	T15	Expansion of Rylenes: New Chemistry and New Properties
10.00		Zhaohui Wang (Institute of Chemistry, CAS)
15:20	T16	Self-Assembly, Aggregation Structures and Properties of Functional Molecules
10.20	110	<u>Yuliang Li (Institute of Chemistry, CAS)</u> , Huibiao Liu, Yongjun Li, Daoben Zhu
		intering the (Institute of Chemistry, Class) Interior Lin, 1818 Jun Li, 2 week Lin
15:40-	16:00	Break
13.40	10.00	Brouk
Session	7	
		Cakayoshi Nakamura (Hokkaido University)
16:00	T17	Edge State and Unconventional Magnetism of Nanographene
10.00	11,	Toshiaki Enoki (Tokyo Institute of Technology)
16:20	T18	Preparation of Graphene and its Electronic Properties
10.20	110	Yungi Liu (Institute of Materials Chemistry, CAS), Dacheng Wei, Chongan Di,
		Jian Zheng, Hongtao Liu, Jianyi Chen, Bin Wu, Yunlong Guo, Gui Yu, Daoben
		Zhu
16:40	T19	Molecular Electronic Devices with Point Contacts Formed from sp ² Carbon
101.0		Nanomaterials
		Xuefeng Guo (Peking University)
17:00	T20	Graphite-Diamond Phase Transition Induced by Inter-Layer Charge Transfer
17.00	120	Exciton in the Visible Region
		Keiichiro Nasu (High Energy Accelerator Research Organization (KEK))
17.20	TO 1	A Two-Dimensional Organic Metal Based on Fullerene
17:20	121	
		Gunzi Saito (Meijo University), Akihiro Otsuka, Mitsuhiko Maesato, Dmitri
17.40	TT00	V. Konarev, Salavat S. Khasanov, Rimma N. Lyubovskaya
17:40	T22	Electronic Structure of Endohedral Fullerenes
		Shojun Hino (Ehime University)
10.00	21.00	
19:00-21:00		Banquet

Wednesday, October 20

<u>University</u>)

13:40

Session	1 8	
Chairp	erson: D	Deqing Zhang (Institute of Chemistry)
08:30	W01	New Efficient Photovoltaic Dyes for DSSC
		He Tian (East China University of Science and Technology)
08:50	W02	Design of Supramolecular Rotators in Solid State Toward Novel Functional
		Systems
		Heng-Yun Ye (Hokkaido University), Shin-ichiro Noro, Tomoyuki Akutagawa,
		Takayoshi Nakamura
09:10	W03	Structural Flexibility and Dielectric Responses of Supramolecules in [Ni(dmit) ₂]
		Salts
		Tomoyuki Akutagawa (Tohoku University), Qiong Ye, Takayoshi Nakamura
09:30	W04	Design and Functions of Two-Dimensional Macromolecules
		Donglin Jiang (Institute for Molecular Science)
09:50	W05	Functional Materials Based on Ordered Porous Structure
07.00	,, 50	Guangtao Li (Tsinghua University)
		Sumgrae II (1911grad Ontro-1911y)
10:10-	10.30	Break
10.10	10.50	Dicur
Session	n 9	
		ukio Ouchi (Nagoya University)
10:30	W06	Refillable Water of Crystallization in (BEDO-TTF) ₂ Br(H ₂ O) ₃
10.50	******	Tsuyoshi Haneda, Adam Tracz, Gunsi Saito, <u>Hideki Yamochi (Kyoto University)</u>
10:50	W07	Helical Organic Functional Nanostructures and Superstructures
10.50	*****	Yong Yan, Zai Yu, Jin Fang, <u>Zhixiang Wei*(National Center for Nanoscience and</u>
		Technology, China)
11:10	W08	Increasing Crystallinity and Alignment of Poly(3-hexylthiophene) Film
11.10	*******	Kui Zhao, Longjian Xue, Xiang Gao, <u>Yanchun Han (Changchun Institute of</u>
		Applied Chemistry, CAS)
11:30	W09	Conductance Measurements on Copper Phthalocyanine Thin Films Made <i>In Situ</i>
11.50	*****	during Film Growth
		Richard Murdey (Kyoto University), Naoki Sato
11:50	W10	Synthesis of Ordered Organic Nanowire Films and Their Photoconductivity
11.50	VV 10	Properties
		Chengyi Zhang, Xiujuan Zhang, Xiaohong Zhang (Technical Institute of Physics
		and Chemistry, CAS)
12:10-	12.20	Lunch
12.10-	13.20	Lunch
Session	10	
		oyonari Sugimoto (Osaka Prefecture University)
13:20	W11	Some New Strategies to New Organic/Polymeric Chemosensors
13.40	44 11	some new strategies to new Organic/1 orginetic Chemosensors

Xiaoding Lou, Qi Zeng, Xiaohong Cheng, Jingui Qin, Zhen Li (Wuhan

W12 Structural and Physical Properties of Molecular Conductors Derived from Meso-,

 (\pm) -, and (S,S)-DMDH-TTP

<u>Jun-ichi Yamada (University of Hyogo)</u>, Kouki Miura, Shun Ichikawa, Satoshi Shimono, Hiroki Akutsu, Shin'ichi Nakatsuji, Lee Martin

- 14:00 W13 Chain Growth Polymerization for Conjugated and Nonconjugated Polymers

 <u>Yanhou Geng (Changchun Institute of Applied Chemistry, CAS)</u>, Shupeng Wu, Li

 Huang, Fosong Wang
- 14:20 W14 Conjugated Molecules and Polymers Based on Fused-Ring Building Blocks Xiaowei Zhan (Institute of Chemistry, CAS)
- 14:40-15:00 Break

Session 11

Chairperson: Lixiang Wang (Changchun Institute of Applied Chemistry)

- 15:00 W15 High Performance Rechargable Battery Using Organic Active Cathode Materials with Multi-Electron Migration

 <u>Toyonari Sugimoto (Osaka Prefecture University)</u>, Takayuki Kubota, Takayuki Matsunaga, Masaharu Satoh
- 15:20 W16 Building an Excellent Li Storage Material Based on Mixed Conducting (Li⁺ and E⁻) Concept

 <u>G. L. Cui (Qingdao Institute of Bioenergy and Bioprocess Technology, CAS)</u>, L. Gu, J. Maier
- 15:40 Closing Remark

List of poster presentations

- P01 Structural and Physical Properties of Molecular Conductors Based on the Bis(methylthio)-Substituted p-Electron Donors

 <u>Kohei Fujikawa (University of Hyogo)</u>, Kazuhiro Takeuchi, Shun Ichikawa, Hiroki Akutsu, Shin'ichi Nakatsuji, Jun-chi Yamada*
- P02 Synthesis of New Dimethyl-Substituted π-Electron Donors and Electrical Conductivity of Their Charge-Transfer Materials *Atsushi Wada (University of Hyogo), Hiroki Akutsu, Shin'ichi Nakatsuji, Jun-chi Yamada**
- P03 Syntheses and Physical Properties of Radical Cation Salts of 2-(Thiopyran-4-ylidene)-4,5-ethylenedithio-1,3-dithiole (TP-EDTT) with Octahedral and Tetrahedral Anions
 - <u>Toshiaki Nishi (Kyoto University)</u>, Yoshiaki Nakano, Mikio Uruichi, Kyuya Yakushi, Masanobu Shirai, Koichiro Tanaka, Hideki Yamochi
- P04 Synthesis, Crystal Structures, Optical Properties and Photocurrent of Interactive Radical Dimers

 <u>Rie Suizu (Nagoya University)</u>, Akito Iwasaki, Laigui Hu, Yukiko Noda, Hirofumi Yoshikawa, Kunio Awaga, Hiroshi Ito, Mikio Uruichi, Kyuya Yakushi
- P05 A Novel [3+3] Schiff-base Macrocycle Merging Tetrathiafulvalene Units: Synthesis, Characterization and Physical Properties

 <u>Chunyang Jia* (University of Electronic Science and Technology of China)</u>, Jiaqiang Zhang
- P06 Novel Bis-Fused π-Electron Donor Composed of Tetrathiafulvalene and Tetraselenafulvalene

 Minoru Ashizawa, Ken-ichi Ishidzu, Masaki Watanabe, Tetsuhiko Tanahashi, Takashi Shirahata, Tadashi Kawamoto, Takehiko Mori, Yohji Misaki (Ehime University)
- P07 Cyclic Pi-Conjuageted Systems as High Performance Orgnaic Semiconductors

 <u>Wei Xu (Institute of Chemistry)</u>, Yabin Song, Tianyue Zhao, Yali Qiao, Yun Zhao, Daoben
 Zhu
- P08 Using Oligomers to Study the Self-Assembly and Opto-Electronic Properties of Conjugated Systems *Qifan Yan*, *Dahui Zhao (Peking University)* → M02 (Oral session 1)
- P09 Synthesis and Properties of Mn₁₂ Cluster Modified with Conjugated Oligomers and Polymers

 Xiaobing Yan, Sanping Cheng, Xingguo Chen (Wuhan University), Jingui Qin
- P10 Homoleptic Copper(I) Arylthiolate Polymers as a New Class of Organic Semiconductors <u>Cheng-Hui Li (Nanjing University)</u>, Stephen Sin-Yin Chui, V. A. L. Roy, Kam-Hung Low, <u>Chi-Ming Che</u>
- P11 Preparation and Function of Liquid Crystal Displays Doped with Pd Nanoparticles Stabilized by Cyanobiphenyl Side-chain Polymers

 <u>Koji Oki (Tokyo University of Science, Yamaguchi)</u>, Tsubasa Futatugi, Kazuhiro Yabuuchi, Makoto Inokuchi
- P12 Solution-Processable Organic Molecular Glasses for Optoelectronic Device Applications Xu-Hui Zhu (South China University of Technology)
- P13 Design of ambipolar transporting materials for highly efficient OLEDs Lian Duan (Tsinghua University), Yong Qiu

- P14 The Role of LiF Buffer Layer in Au-Cathode OLEDs

 Z. Y. Sun (Fudan University), B. F. Ding, B. Wu, Y. T. You, W. B. Li, X. M. Ding, X. Y. Hou*
- P15 Novel Polymeric Host Materials Constructed by Silane-Cabarzole Backbone and Electron-Affinitive Cyanohexyl Substituent for Blue Phosphorescence Dopant in Polymer Light Emitting Device
 - Dehua Hu, Ping Lu (Jilin University), Yuguang Ma, Gang Cheng
- P16 Fabrication and Electrical Characteristics of pn-Homojunction Diodes Based on Zinc Phthalocyanine
 - Hiroaki Yoshii (Waseda University), Yukio Furukawa
- P17 Fabrication and Electrical Measurements of Bulk Heterojunction Solar Cells Based on P3HT and PCBM

 Jun Eguchi (Waseda University), Yukio Furukawa
- P18 Synthesis, Physical Properties and Device Application of Novel Organic Semiconductors Based on Diphenylpyran Derivatives

 <u>Altan Bolag (Tokyo Institute of Technology)</u>, Jun-ichi Nishida, Kohjiro Hara, Yoshiro Yamashita
- P19 Tunable Optoelectronic Property Based on Cooperative Supramolecular Interactions in Organic π-Conjugated Materials

 <u>Bing Yang (Jilin University)</u>, Leilei Tian, Yuanze Xu, Wenchao Li, Yuguang Ma, Jiacong Shen
- P20 Growth Dynamics of Photoinduced Domains in Two-Dimensional Charge-Ordered Organic Conductors

 Yasuhiro Tanaka (Institute for Molecular Science), Kenji Yonemitsu
- P21 Metal Ions Promoted Electron Transfer within TTF-Based D-A Dyads

 <u>Deging Zhang (Institute of Chemistry, CAS)</u>, Guanxin Zhang, Lina Jia, Jin Li, Fei Sun,

 Luxi Tan, Daoben Zhu
- P22 Spectroscopic Study on the Phase Transition of (DMEDO-EBDT)₂PF₆

 <u>Yoshiaki Nakano (Kyoto University)</u>, Hideki Yamochi, Toru Morikawa, Takashi Shirahata, Hisakazu Miyamoto, Yohji Misaki, Mikio Uruichi, Kyuya Yakushi
- P23 Metal-Insulator Transition in Organic Alloy, [(EDO-TTF)_{1-x} (MeEDO-TTF)_x]₂ PF₆ {x=0.06-0.12} <u>Takaaki Hiramatsu (Koto University)</u>, Tsuyoshi Murata, Xiangfeng Shao, Yoshiaki Nakano, Hideki Yamochi, Mikio Uruichi, Kyuya Yakushi, Koichiro Tanaka
- P24 Crystal Structures and Dielectric Response of (Pyridazine)([18]crown-6 derivatives)[Ni(dmit)₂] Salts

 <u>Zunqi Liu (Hokkaido Universiy)</u>, Ling Li, Shin-ichiro Noro, Tomoyuki Akutagawa, Takayoshi Nakamura
- P25 Magnetic and Thermal Properties of Ferrocenium Ionic Liquids

 <u>Y. Funasako (Kobe University)</u>, T. Inagaki, T. Mochida,* T. Sakurai, H. Ohta, K. Furukawa, T. Nakamura
- P26 Electrochemical SFG Studies on the Interface of Room Temperature Ionic Liquid Octathio[8]circulene (Sulflower) Thin-Film for Organic FET Device

 Jesse Montague, Zhou Wei, Takashi Iwahashi, Takuya Fujimoto, Kunio Awaga, Kazuhiko Seki, Yukio Ouchi (Nagoya University)
- P27 Energy Level Alignment at the Organic Donor-Acceptor Heterojunction Interfaces W. Chen, F. Bussolotti (Chiba University), S. Kera, N. Ueno, A. T. S. Wee

- P28 New Method for Depth Profiling of Energy Levels: Electronic Structure of Buried Organic/Metal Interface

 Hiroyuki Yoshida (Kyoto University), Eisuke Ito, Masahiko Hara, Naoki Sato
- P29 Raman Spectra of Alq₃ Films Doped with Alkali Metal or Alkali-Earth Metal *Hidehiro Minashima (Waseda University), Yukio Furukawa*
- P30 Two-Dimensional Analysis of Solid Structures of Pentacene Films by Raman Imaging *Keisuke Seto (Waseda University), Yukio Furukawa*
- P31 Some Electronic Properties and Morphological Feature of Hybrid Material DNA/SWCNT Thin Films

 <u>Yusei Maruyama (Hosei University)</u>, Satoru Motohashi, Masayuki Tanaka, Hironori Ogata, Biao Zhou, Akiko Kobayashi, Masayuki Shoda, Shunji Bandow, Sumio Iijima
- P32 Conducting Properties of the Two-Dimensional Triangular Lattice System Based on Fullerene

 <u>Mitsuhiko Maesato (Kyoto University)</u>, Akihiro Otsuka, Dmitry V. Konarev, Salavat S. Khasanov, Rimma N. Lyubovskaya, Mikio Uruichi, Kyuya Yakushi, Hideki Yamochi, Hiroshi Kitagawa, Gunzi Saito
- P33 Micro- & Nanometer Sized Organic Semiconductor Single Crystals: Growth, Characterization and Device Application

 Wenping Hu (Institute of Chemistry)
- P34 STM/STS Measurement on Ultra Tiny Molecular Chains of (BETS)₂GaCl₄
 A. Hassanien, H. Tanaka (National Institute of Advanced Industrial Science and Technology (AIST), Japan), K. Clark, S. Khan, K.-F. Braun, S.-W. Hla
- P35 Controlling Molecular Rotary Motion with a Self-Complexing Lock <u>Da-Hui Qu</u> (*East China University of Science & Technology*), Ben. L. Feringa
- P36 Molecular Motion of Supramolecular Cations in Ferromagnetic Layer Structure of [MnCr(oxalate)₃]

 <u>Toru Endo (Hokkaido Universiy)</u>, Tomoyuki Akutagawa, Shin-ichiro Noro, Sadamu Takeda, Takayoshi Nakamura
- P37 Direct 3D Imaging of the Buried Interfaces between Water and Superhydrophobic Surfaces

 <u>Chan Luo (South China University of Technology)</u>, Hua Zheng, Lei Wang, Haiping Fang, Jun Hu, Chunhai Fan, Yong Cao, Jian Wang
- P38 Nanoholes of Erythrocyte Membrane Ghosts Revealed by Dielectric Spectroscopy Koji Asami (Kyoto University)
- P39 Conjugated Polyelectrolytes as New Optical Probes for Biosensing and Imaging <u>Shu Wang (Institute of Chemistry)</u>
- P40 Novel Highly Photoluminescent Water-Soluble Polyfluorenes for Metal Ions Sensing Chuanjiang Qin, Xiaopu Wu, <u>Hui Tong* (Changchun Institute of Applied Chemistry, CAS)</u>, Lixiang Wang*
- P41 Dual-Sensing Color-Tunable Copolymeric Optical Nanosensor Qiang Yan, Jinying Yuan (Tsinghua University)
- P42 Pressure Dependence of Charge-Transfer in Benzoquinone-Phenylenediamine Complexes Takafumi Miyazaki (Ehime University), Hidefumi Kiriki, Shojun Hino
- P43 Shear Stress Effects on Photochromic Compounds Spiropyran and Diarylethene <u>Shuhei Ohsima (Tokyo University of Science, Yamaguchi)</u>, <u>Takeshi Inoue (Tokyo University of Science, Yamaguchi)</u>, Ryosuke Sakai, Makoto Inokuchi, *Kazuhiro Yabuuchi, Kyuya Yakushi, Ichimin Shirotani