



Session Title	[TuP] Poster Session II
Date / Time	Jul. 3 (Tue.), 2018 / 19:00-21:00
Place	2F, Lobby

TuP-001

Single Crystals of Sandwich-Type Polyoxometalates $[(PW_9O_{34})_2(H_2OTb)_3CO_3]^{11-}$ with $(CH_3)_nH_{4-n}N^+(n = 1-4)$ Counter Cations

Jiao Chen¹, Masaru Fujibayashi², Kiyonori Takahashi¹, Kazuya Kubo³, Shin-ichiro Noro¹, and Takayoshi Nakamura¹

¹Hokkaido Univ., Japan, ²Yamaguchi Univ., Japan, ³Univ. of Hyogo, Japan

TuP-002

Study of The Molecular Crystals by Synchrotron X-ray Diffraction

Shunsuke Kitou¹, Kuniyoshi Sugimoto², Toshikazu Nakamura³, and Hiroshi Sawa¹

¹Nagoya Univ., Japan, ²JASRI, Japan, ³IMS, Japan

TuP-003

Josephson Vortex Dynamics in FFLO Phase of Layered Organic Superconductor β'' - $(BEDT-TTF)_2SF_5CH_2CF_2SO_3$

Shiori Sugiura¹, Shinya Uji¹, Hishiro Hirose¹, Taichi Terashima¹, Syuma Yasuzuka², and John A. Schlueter³

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TuP-004

Syntheses, Structures, and Properties of Novel Metal-Dithiolene Complexes with Hydrogen-Bonds

So Yokomori¹, Akira Ueda¹, Reiji Kumai², Youichi Murakami², and Hatsumi Mori¹

¹The Univ. of Tokyo, Japan, ²KEK PF CMRC, Japan

TuP-005

Fabrication of Semi-Transparent and Flexible Organic Solar Cells

Kwanghee Lee¹, Yeongjin Lee¹, Hongkyu Kang¹, Nara Kim², and Seok Kim¹

¹GIST, Korea, ²Linköping Univ., Sweden

TuP-006

Characterization of Crystal Structure and Physical Properties of the Novel Organic Salt, α -(ET)₂NH₄Hg(SeCN)₄

Akihiro Ohnuma¹, Shuhei Fukuoka¹, Yoshihiko Ihara¹, Hiromi Taniguchi², and Atsushi Kawamoto¹

¹Hokkaido Univ., Japan, ²Saitama Univ., Japan

TuP-007

Electronic and Magnetic Properties of λ' -(BEDT-STF)₂GaBr₄

Kawaguchi Satoshi, Wada Takuma, Minamidate Takaaki, Matsunaga Noriaki, Kawamoto Atsushi and Nomura Kazushige

Hokkaido Univ., Japan



TuP-008

Crystal Structures and Intrinsic Proton Conductivity of Anhydrous Organic Salts, Imidazolium Dicarboxylates

Yoshiya Sunairi, Akira Ueda, Junya Yoshida, Keisuke Suzuki, and Hatsumi Mori
The Univ. of Tokyo, Japan

TuP-009

Synthesis and Characterization of Electron Accepting Conjugated Polymers Achieved by Benzotriazolyl Bis(trifluoroborate)

Youngtae Kim, Hyun-Taek Oh, Seok-Heon Jung, and Jin-Kyun Lee
Inha Univ., Korea

TuP-010

Change of Electrical Properties of PEDOT:PSS Thin Films by Post-Treatment with Various Solvents

Hong Jang, Hyeokjo Jeong, and Felix Sunjoo Kim
Chung-Ang Univ., Korea

TuP-011

Manufacture of High-Intensity and Conductive Alginate Fiber Mixed with Carbon Nano Tube and Using Ion-Exchange Reactions.

Jae Ho Kim, Thu Nguyen, and Jun Young Lee
Sungkyunkwan Univ., Korea

TuP-012

Preparation and Characterization of Efficient Ionizing Materials of OLED Vacuum Deposition

Seung-Kyu Park, Sung-Woo Jeon, Sung-Woo Jeon, Soohuan Lee, Ran Hee Kim, and Kwang-Sup Lee
Hannam Univ., Korea

TuP-013

A Self-Aligned High Resolution Patterning Process for Large Area Printed Electronics

Won-Tae Park and Yong-Young Noh
Dongguk Univ., Korea

TuP-014

Experimental Search for Topological States in an Organic Dirac Fermion System, α -(BEDT-TTF)₂I₃

Mitsuyuki Sato, Kenta Yoshimura, and Toshihito Osada
The Univ. of Tokyo, Japan

TuP-015

Thermodynamic Property of Magnetic-Field-Induced Superconductor κ -(BETS)₂FeBr₄

Takako Konoike¹, Takahide Yamaguchi¹, Taichi Terashima¹, Shinya Uji¹, Hideki Fujiwara², Bin Zhan³, and Hayao Kobayashi⁴

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TuP-016

New Triangular Lattice BEDT-TTF Salt with Disorder-Free Anions

Tomeno Shinya, Yoshida Yukihiro, Mitsuhiro Maesato, and Hiroshi Kitagawa
Kyoto Univ., Japan

TuP-017

A polythiophene-Based Conductive Polymer with Both Ionic and Electronic Conductivity for Lithium-Ion Battery Applications

Jong-Chan Lee, Na Kyung Kim, and Da Un Jung
Seoul Nat'l Univ., Korea

TuP-018

Characterization of Conjugated Polymers composed of Thiazolo[5,4-b]pyridine and Benzodithiophene in the Position of Functional Group

Hongsuk Suh¹, Juae Kim¹, Sangmin Chae¹, Ahra Yi¹, and Hyo Jung Kim¹
Pusan Nat'l Univ., Korea

TuP-019

Charge Carrier Scattering in Polymers: A New Neutral Coupled Soliton Channel

Geraldo Magela e Silva, Luiz Ribeiro, Fabio Monteiro, and Wiliam Cunha
Univ. of Brasilia, Brazil

TuP-020

Green to Blue Light Upconversion in Polymer Matrixes

Steponas Raisys, Povilas Adomenas, Karolis Kazlauskas, and Saulius Juršenas
Vilnius Univ., Lithuania

TuP-021

Bis-Tridentate Ir(III) Metal Phosphors for Efficient Deep-Blue Organic Light-Emitting Diodes

Hsin-Hung Kuo¹, Yi-Ting Chen², Leon R. Devereux³, Chung-Chih Wu², Mark A. Fox³, Chu-Yun Kuei¹, Yun Chi¹, and Gene-Hsiang Lee²
¹Nat'l Tsing Hua Univ., Tawian, ²Nat'l Taiwan Univ., Taiwan, ³Durham Univ., UK

TuP-022

Room Temperature Phosphorescence towards Thermally Activated Delayed Fluorescence in Carbazole – Pyrimidine Cored compounds

Tomas Serevicius, Tadas Buciunas, Jonas Bucevicius, Jelena Dodonova, Sigitas Tumkevicius, and Saulius Juršenas
Vilnius Univ., Lithuania

TuP-023

A Comprehensive Photophysical Study of Pyrimidine Dyes Containing Carbazoles and Aniline: The Interplay between Singlets and Triplets

Justina Jovaisaite¹, Gediminas Jonusauskas², Jelena Dodonova¹, Jonas Bucevicius¹, Sigitas Tumkevicius¹, and Saulius Juršenas¹
¹Vilnius Univ., Lithuania, ²Bordeaux Univ., France



TuP-024

Ferroelectricity of Alkylamide-Substituted Helicene Derivatives

Hayato Anetai, Takashi Takeda, Norihisa Hoshino, Higashi Kobayashi, Nozomi Saito, Masanori Shigeno, Masahiko Yamaguchi, and Tomoyuki Akutagawa
Tohoku Univ., Japan

TuP-025

Synthesis and Light-Emitting Properties of Hyperbranched Conjugated Poly(Para-Phenylene Vinylene) Derivatives

Gyeongmin Ki and Taek Ahn
Kyungsoong Univ., Korea

TuP-026

The Polymers of Organic π -Conjugated Self-Assembly and Aggregation Conformation

Yuanping Yi, Guangchao Han, and Lu Ning
Inst. of Chemistry Chinese Academy of Sciences, China

TuP-027

Molecular Assembly Structure and Physical Properties of Porphyrin Derivatives with – CONHC₁₄H₂₉ Group

Jianyun Wu¹, Takashi Takeda², Norihisa Hoshino², and Tomoyuki Akutagawa²
¹*Tohoku Univ., Japan*, ²*IMRAM. Tohoku Univ., Japan*

TuP-028

Graphene Oxide/Two-Dimensional Conjugated Polymer Composite as Effective Photocatalytic System for CO₂ Reduction

Shih-Hao Wang and Leeyih Wang
Nat'l Taiwan Univ., Taiwan

TuP-029

Development of Light-Emitting Semiconducting Coordination Polymers

Takashi Okubo, Toshiya Horii, Misaki Okita, Masahiko Maekawa, and Takayoshi Kuroda-Sowa
Kindai Univ., Japan

TuP-030

Crystal Structures and Electrical Conducting Properties of Semiconducting Coordination Polymers with Copper(I)-Bromide and Tetrazine Derivatives

Sanshiro Fukuda, Koki Tanishima, Kento Himoto, Takashi Okubo, Masahiko Maekawa, and Takayoshi Kuroda-Sowa
Kindai Univ., Japan

TuP-031

Vibrational Spectroscopy of Regio-Regular P3HT and Its Deutero Derivatives

Luigi Brambilla¹, Cristina Capel Ferròn², Matteo Tommasini¹, Kunlun Hong³, Juan Teodomiro López Navarrete², Victor Hernández², and Giuseppe Zerbi¹
¹*Politecnico di Milano, Italy*, ²*Univ. de Málaga, Spain*, ³*Oak Ridge Nat'l Lab., USA*



TuP-032

Ethanol-Soluble Donor and Acceptor for Eco-Friendly Organic Solar Cells

Ziang Wu¹, Seungjin Lee², Yuxiang Li¹, Bumjoon Kim², and Han Young Woo¹

¹Korea Univ., Korea, ²KAIST, Korea

TuP-033

Synergic Increase of Electrical Conductivity in Polypyrrole/Molybdenum Disulphide Composite

Udit Acharya, Patrycja Bober, Jaroslav Stejskal, and Jiří Pflieger

Inst. of Macromolecular Chemistry AS CR, Czech

TuP-034

Fused Perylene Diimide-Based Conjugated Polymers as The Acceptors for High-Performance All-Polymer Solar Cells

Yuli Yin, Ming Liu, Yong Zhang, and Liancheng Zhao

Harbin Inst. of Tech., China

TuP-035

Raman Spectroscopy in Organic Thin Film Technologies: Everything You Always Wanted to Know

Xabier Rodríguez-Martínez¹, Antonio Sánchez-Díaz¹, Aleksandr Perevedentsev¹, Michelle S. Vezie², Xingyuan Shi², Iain McCulloch³, Jenny Nelson², Alejandro R. Goñi¹, Sebastian Reparaz¹, and Mariano Campoy-Quiles¹

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TuP-036

Control in Molecular Assemblies and Physical Properties of Cation-Anion Pairs in Naphthalene Diimide Derivative

Ayumi Kawasaki¹, Takashi Takeda¹, Norihisa Hoshino¹, Takamitsu Kikuchi¹, Wakana Mastuda², Shu Seki², and Tomoyuki Akutagawa¹

¹Tohoku Univ., Japan, ²Kyoto Univ., Japan

TuP-037

Development of Hybrid Naphthalene-Based Nitrogen Containing Electron Deficient π -Systems for Organic Semiconductors

Tsubasa Mikie and Itaru Osaka

Hiroshima Univ., Japan

TuP-038

Water-Dispersible Hyperbranched Conjugated Polymer Nanoparticles for Amplifying Fluorescent Sensing of Trace TNT and Picric Acid

Xiaofu Wu, Hua Li, Hui Tong, and Lixiang Wang

Changchun Inst. of Applied Chemistry, Chinese Academy of Sciences, China



TuP-039

Molecular Assembly Structures and Dielectric Properties of Bis(alkylamide)-Substituted Benzene Derivatives

Moeko Kawana, Takashi Takeda, Norihisa Hoshino, and Tomoyuki Akutagawa
Tohoku Univ., Japan

TuP-040

Synthesis of All-Small-Molecule Solar Cells Incorporating NDI-Based Acceptors

YeonHee Ha¹, Jisu Hong², Hyojung Cha³, Ran Kim¹, Yu Jin Kim⁴, Chan Eon Park², James R. Durrant³, Soon-Ki Kwon¹, Tae Kyu An⁵, and Yun-Hi Kim¹

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TuP-041

Molecular Tuning of D-A Type Polymers for Efficient Charge Transport in Organic Field-Effect Transistors

Kwang Hun Park¹, Seong Hoon Yu², Dae Sung Chung², Cheol Ho Kang¹, Yun-Hi Kim¹, and Soon-Ki Kwon¹

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TuP-042

A Small Molecule based on Dithienophospholeoxide for Bulk Heterojunction Solar Cells

Jiyoung Choi¹, Jisu Hong², Tae Kyu An³, Min Jae Sung¹, Yebyeol Kim², Yun-Hi Kim¹, Chan Eon Park², and Soon-Ki Kwon¹

¹Gyeongsang Nat'l Univ., Korea, ²POSTECH, Korea, ³Korea Nat'l Univ. of Transportation, Korea

TuP-043

Development of Azasiline-Based Thermally Activated Delayed Fluorescence Emitter for Blue OLED

Yun-Hi Kim¹, You Heon Kim¹, Jang-Joo Kim², Soon-Ki Kwon¹, Jang-Yeol Baek¹, and Jin-Won Sun²

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TuP-044

Dithienobenzodithiophene-Based Small Molecule Organic Solar Cells via Additive- and Thermal-Annealing-Free Processing

Na Yeong Kim¹, Hyeng Gun Song¹, Yu Jin Kim², Ji Sang Lee¹, Chan Eon Park², Soon-Ki Kwon¹, and Yun-Hi Kim¹

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TuP-045

Dimethylsilyl-Linked Anthracene-Pyrene Dimers and Their Efficient T-T Annihilation in Organic Light Emitting Diodes(OLED)

Hwanil Je¹, Min Jae Sung¹, Hiroya Chubachi², Ryo Satoh², Yun-Hi Kim³, Yong-Jin Pu², and Soon-Ki Kwon¹

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TuP-046

New Linear Small Molecules: Naphthyl-Ethynyl-Anthracene-Based Small Molecules Containing Different Alkyl End Group

Hyun Woo Kim¹, Yebyeol Kim², So-Min Park¹, Tae Kyu An³, Chan Eon Park², Yun-Hi Kim¹, and Soon-Ki Kwon¹

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TuP-047

Crystal Structures and Optical Properties of Benzothiazole Derivatives with Pyridyl Group

Keigo Takahashi¹, Takashi Takeda¹, Norihisa Hoshino¹, Ken-ichi Sakai², and Tomoyuki Akutagawa¹

¹Tohoku Univ., Japan, ²Chitose Inst. of Science and Tech., Japan

TuP-048

Synthesis and Characterization of A New Deep Green-Emitting Ir(III) Complex for OLED

Myeong-Jong Kim¹, Seung-Jun Yoo², Jaeyoung Hwang¹, Sung-Jin Park¹, Jae-Wook Kang³, Yun-Hi Kim¹, Jang-Joo Kim², and Soon-Ki Kwon¹

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TuP-049

Synthesizing Orange Iridium (III) Complexes for Solution Processable Organic Light-Emitting Diodes

Hyungjin Cheon¹, Yun-Hi Kim¹, Jaeyoung Hwang¹, Seung-Bae Ji², Kyoung Soo Yook², and Soon-Ki Kwon¹

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TuP-050

Synthesis of Highly Soluble Carbazole-Based Copolymer Effects of Thermal Treatment on Chargecarrier Mobility

NamYeong Jeong¹, Min Su Jang², So Min Park¹, Dae Sung Chung², Soon-Ki Kwon¹, and Yun-Hi Kim¹

¹Gyeongsang Univ., Korea, ²DGIST, Korea

TuP-051

Copolymer for Narrow Band Green-Selective Organic Photodiode

Min Jae Sung¹, Kyoungwan Kim², Dae Sung Chung², Yun-Hi Kim¹, and Soon-Ki Kwon¹

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TuP-052

New n-Type Copolymer based on Thiazole Derivatives for OPVs

Canjie Wang, Hyoung Nam Kim, Nayeong Kim, Yun-Hi Kim, and Soon ki Kwon
Gyeongsang Nat'l Univ., Korea



TuP-053

A Thienophene Based Copolymer for An Organic Electronics

Cheng Sun¹, Kang in Lee¹, Yun-Hi Kim¹, and Soon-ki Kwon²

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Convergen, Korea

TuP-054

**Synthesis and Photovoltaic Properties of Thieno[3,2-b]thiophene-Incorporated
Benzothiadiazole-Based Conjugated Donor Polymers**

Jong-Woon Ha, Jong Baek Park, and Do-Hoon Hwang
Pusan Nat'l Univ., Korea

TuP-055

**Observation and Characterization of Charge Transfer States in Bulk Heterojunction
Blends by Subgap Optical Spectroscopies**

Sin Hang Cheung¹, Carr Hoi Yi Ho¹, Ho Wa Li², Franky So³, Sai Wing Tsang², and Shu Kong
So¹

¹Hong Kong Baptist Univ., Hong Kong, China, ²City Univ. of Hong Kong, Hong Kong,
China, ³North Carolina State Univ., USA

TuP-056

A New Ambipolar Copolymer for Organic Electronics

Xinwei Wu, Cheng Sun, Hyeng gun Song, and Yun-Hi Kim
Gyeongsang Nat'l Univ., Korea

TuP-057

**Synthesis of Conjugated Polymer based on Phenanthrocarbazole Unit as a Donor and
TPD Unit as an Acceptor**

Gyeong Seok Lee¹, Yun-Hi Kim¹, Dong Hwan Wang², Soon-Ki Kwon¹, Minji Yi², Jae Sang
Cho², Soyun Park², Hyungjin Cheon¹, and Woongsik Jang²

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TuP-058

Synthesis and Characterization of OLEDs, New Deep-Blue Dopants

Oh-Sung Koo¹, Yun-Hi Kim¹, Sunyoung Sohn², Bong Hyun Koh³, Jae Yeul Baek³, Hyun
Chan Byun³, Jae Hyun Lee³, Dong-Seon Shin³, Hyungju Ahn², and Han-Koo Lee²

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Korea

TuP-059

**Improvement of Luminescence Efficiency of Organic Nanoarchitectures by
Controlling Crystallinity**

Do Hyoung Kim, Jinho Choi, Seokho Kim, and Dong Hyuk Park
Inha Univ., Korea



TuP-060

Circularly Polarized Luminescence from Supramolecular Complexes Consisting of Cyanostilbene Derivatives and Sulfated Beta-Cyclodextrin in Water

Hyeong-Ju Kim and Soo Young Park
Seoul Nat'l Univ., Korea

TuP-061

Novel Self-Doped Water-Soluble Highly Conducting Polymers

Hirokazu Yano^{1,2}, Kazuki Kudo², and Hidenori Okuzaki²
¹*Tosoh Corp., Japan*, ²*Univ. of Yamanashi, Japan*

TuP-062

Preparation of Graphene-Polypyrrole/Epoxy Composites with Excellent Electromagnetic Wave Absorption Properties

Quyên Thi Vu¹, Tung Trinh Ngo², and Daewon Sohn¹
¹*Hanyang Univ., Korea*, ²*VAST, Vietnam*

TuP-063

High-Performance n-Channel Field-Effect Transistors from [1]Benzothieno[3,2-b]Benzothiophene Based Donor-Acceptor Copolymers

Suman Kalyan Samanta, Inho Song, Jong Heun Yoo, and Joon Hak Oh
POSTECH, Korea

TuP-064

Size Adjustment of Conjugated Polymer Nanoparticles for White Light Emission

Jongho Kim, Young-Jin Gwon, Jeong Jun Lee, and Taek Seung Lee
Chungnam Nat'l Univ., Korea

TuP-065

Non-Conjugated Polymer Emitting Materials for High-Performing Solution-Processed TADF-Assisted Organic Light-Emitting Diodes

Hyung Jong Kim, Chiho Lee, Mallesham Godumala, Suna Choi, Seo Yeon Park, Min Ju Cho, Sungham Park, and Dong Hoon Choi
Korea Univ., Korea

TuP-066

High-Performing Silane Core-Based Bipolar Host Materials in Blue Thermally Activated Delayed Fluorescence OLEDs

Suna Choi, Seo Yeon Park, Young Un Kim, Su Hong Park, Min Ju Cho, and Dong Hoon Choi
Korea Univ., Korea

TuP-067

Synthesis of Conjugated Polymer with Long Wavelength Absorption for ROS Generation

Young Jin Gwon, Hyun Chul Kim, and Taek Seung Lee
Chungnam Nat'l Univ., Korea



TuP-068

Control on Liquid Crystal Defects via Fabrication of Polymer-Based Microchannels with a Soft-Imprinting Technique Assisted Method

Min Jeong Shin, Min-Jun Gim, and Dong Ki Yoon
KAIST, Korea

TuP-069

Blue-Emissive Fluorophore based on a Single Benzene with Intra- Andintermolecular Hydrogen Bonds

Eunbee Cho, Taehyun Kim, Yena Lee, and Taek Seung Lee
Chungnam Nat'l Univ., Korea

TuP-070

Green-Processable and Dopant-Free Semiconducting Polymers with Asymmetric Structure and Application to Hole-Transporting Materials

Junwoo Lee, Cheol Woong Park, Sang Ah Park, and Park Taiho
POSTECH, Korea

TuP-071

Synthesis of Fluorescent Azobenzene Derivatives upon Aggregation

Yeoju Yoon, Seonyoung Jo, and Teak Seung Lee
Chungnam Nat'l Univ., Korea

TuP-072

Enhanced Electron Mobility of Low-Crystalline Conjugated Polymers with Localized Aggregates via Kinetically Fast and Robust Interactions.

Minjun Kim, Hong Il Kim, Seung Un Ryu, and Taiho Park
POSTECH, Korea

TuP-073

Electric Field Induced Micropatterned Liquidcrystal

Dongki Yoon and You Ra
KAIST, Korea

TuP-074

Self-Assembled Conjugated Polymermicrodisk Array and Its Fluorescence Switching

Yusuke Kitayama¹, Yusuke Aikyo¹, Takeo Minari², Xuying Liu², Masakazu Morimoto³,
Masahiro Irie³, Junpei
Kuwabara¹, Takaki Kanbara¹, and Yohei Yamamoto¹
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TuP-075

Donor-Acceptor Dendrimer Crystals that Display Thermo-, Vapor-, and Mechanochromism

Jooyoung Yoo¹, Yohei Yamamoto², Sae Nakajima², Ken Albrecht³, Kimihisa Yamamoto³,
Youhei Takeda⁴, and Minakata Satoshi⁴
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TuP-076

Luminescent Di-Iridium Complexes with Bridging Pyrazolates; Characterization and Fabrication of OLEDs Using Vacuum Thermal Deposition

Jia-Ling Liao¹, Palanisamy Rajakannu¹, Premkumar Gnanasekaran¹, Shang-Ru Tsai², Chun-Han Lin², Chih-Hao, Chang², Shih-Hung Liu³, Pi-Tai Chou³, Gene-Hsiang Lee³, and Yun Chi¹
¹Nat'l Tsing Hua Univ., Taiwan, ²Yuan Ze Univ., Taiwan, ³Nanyang Technological Univ., Taiwan

TuP-077

The Influence of Aromatic Diimide Side Groups on π -Conjugated Polymer Properties

Przemyslaw Ledwon, Karol Knop, Anna Drewniak, and Krzysztof Walczak
Silesian Univ. of Tech., Poland

TuP-078

Dual Anthracene Derivatives Using Optimizing Side Group for Highly Efficient Blue OLED Emitters

Seokwoo Kang, Hayoon Lee, Hyocheol Jung, and Jongwook Park
Kyung Hee Univ., Korea

TuP-079

Ring-Fusion of Non-Fullerene Acceptors based on Perylene Diimide towards Efficient Organic Solar Cells with Small Voltage Losses

Jianquan Zhang, Yunke Li, and He Yan
Hong Kong Univ. of Science and Tech., Hong Kong, China

TuP-080

Synthesis and Electroluminescent Properties of New Blue Dual-Core Derivatives Using Fluorene and Carbazole

Beomjin Kim¹, Suji Lee², Hyocheol Jung¹, Hayoon Lee¹, Seokwoo Kang¹, Yeonkyu Jeong¹, and Jongwook Park¹
¹Kyunghee Univ., Korea, ²Catholic Univ., Korea

TuP-081

Synthesis of A Degenerated Neutral Radical State based on Metal Dithiolene Complex

Yojiro Kimura, Mikihiro Hayashi, Mitsuhiro Maesato, and Hiroshi Kitagawa
Kyoto Univ., Japan

TuP-082

Synthesis and Electroluminescent Properties of New Blue Dual-Core Emitters Using Different Aromatic Amines and Substitution Positions

Hwangyu Shin¹, Beomjin Kim², Hyocheol Jung², Jaehyun Lee¹, Hayoon Lee², Seokwoo Kang², Jiwon Moon¹, JinWook Jeong², Joonghan Kim¹, and Jongwook Park²
¹Catholic Univ., Korea, ²Kyunghee Univ., Korea



TuP-083

Improving Photostability Of Polymer Solar Cells by Introducing Stabilizing Moiety in Photoactive Layer

Vu Van Doan, Rasool Shafket, Chang Eun Song, and Won Suk Shin
KRICT, Korea

TuP-084

Direct C-H Arylation Meets Perovskite Solar Cells: Sn-Free Synthesis Shortcut to High Performance Hole-Transporting Materials

Yu-Chieh Chang¹, Kun-Mu Lee², Chia-Hsin Lai¹, Ching-Yuan Liu¹, and Jui-Heng Chen¹
¹Nat'l Central Univ., Taiwan, ²Chang Gung Univ., Taiwan

TuP-085

Greener Synthesis of D- π -A Organic Sensitizers via Cu-Catalyzed Direct Arylations: Development of Sn- & Pd-Free Process for Dye-Sensitized Solar Cells

Chia-Hua Chiang¹, Jiung-Huai Huang¹, Po-Han Lin¹, Wei-Ming Li¹, Kun-Mu Lee², and Ching-Yuan Liu¹
¹Nat'l Central Univ., Taiwan, ²Chang Gung Univ., Taiwan

TuP-086

Direct C-H Arylation as Chemoselective Single-Step Access to Organic-Electronics-Versatile π -Acceptor- π Type Building Blocks

Kuan-Ming Lu, Wei-Ming Li, Po-Yu Lin, Kuan-Ting Liu, Yi-Kai Peng, and Ching-Yuan Liu
Nat'l Central Univ., Taiwan

TuP-087

Quinoidal Conjugated Polymers for High Performance Organic Field-Effect Transistors

Yunseul Kim¹, Hansu Hwang², Nam-Koo Kim³, and Dong-Yu Kim¹
¹GIST, Korea, ²KIST, Korea, ³LG Electronics, Korea

TuP-088

Synthesizing Fluorinated Benzothiadiazole-Containing Regioregular Polymer: Comparing the Regioregular with Regiorandom Polymer on Nanogrooved Substrate

Junghoon Lee
Dongseo Univ., Korea

TuP-089

Flexible NFC Tag for Food Packaging with Printed Antenna and Temperature Sensor with Si-Chip as RF Front End

Bijendra Bishow Maskey, Kiran Shrestha, Yushin Kim, Hyejin Park, and Gyoujin Cho
Sunchon Nat'l Univ., Korea

TuP-090

Charge-Transfer Dynamics in Donor-Spacer-Acceptor Dyads

Ahmed Hesham Balawi¹, Julien Gorenflot¹, Sebastian Stappert², Denis Adrienko², Chen Li², Klaus Mullen², and Frederic Laquai¹
¹KAUST, Saudi Arabia, ²Max Planck Inst. for Polymer Research, Germany



TuP-091

Stretchable and Highly Conductive Polymer Gels

YingJun An, Kana Iwashita, and Hidenori Okuzaki
Univ. of Yamanashi, Japan

TuP-092

Riboflavin-Based Novel Conjugated Bio-Organic Semiconductors

Jozef Krajcovic¹, Jan Richtar¹, Alexander Kovalenko¹, Dogukan Hazar Apaydin², Cigdem Yumusak², Martin Weiter¹, and Niyazi Serdar Sariciftci²
¹BUT Faculty of Chemistry, Czech, ²Linz Inst. for Organic Solar Cells, Austria

TuP-093

NIR-Emissive Polymer Dot as a Fluorescent Imaging Platform

Ji-Eun Jeong and Woo Han Young
Korea Univ., Korea

TuP-094

Self-Assembly of M-13 Bacteriophage Using Meniscus Phenomenon

Jiye Han, Kyounga Lim, Jongmin Lee, Jin-Woo Oh, and Jong-Sik Moon
Pusan Nat'l Univ., Korea

TuP-095

Transmission of Neurotransmitter Using Two-Conducting-Polymers System

Masaharu Fujii, Shinichi Hamasaki, Daichi Toyofuku, Haruo Ihuri, and Hyeon-gu Jeon
Ehime Univ., Japan

TuP-096

Carbon Nanotube Based Bio-Electrodes for Surface Electromyogramsensors

Byeong-Cheol Kang¹, Jae-Ho Han², and Tae-Jun Ha¹
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TuP-097

Biomimetic Self-Assembled Structures for Surface Plasmon Resonance Sensors

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TuP-098

Biosensor to Detect miRNA based on Nanostructured DNA-Recombinant Azurin Hybrid

Joungpyo Lim, Chanyong Yi, Mohsen Mohammadniaei, and Jeong-Woo Choi
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TuP-099

Electrochemical Biosensor Composed of Nanostructured MoS₂/Graphene Oxide/Protein Hybrid for H₂O₂ Detection

Chanyong Yi, Joungpyo Lim, Jinho Yoon, and Jeong-Woo Choi
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TuP-100

Anionic Surfactant-Mediated Mesoporous Silica for Ocular Delivery of Brimonidine

Se-Na Kim and Young Bin Choy
Seoul Nat'l Univ., Korea

TuP-101

The Role of TRIB2 in Regulating Cancer Stem Cell-Like Characteristics in Ovarian Cancercells

Eun Jung Choi, Ye Ji Kim, Dea Kyoung Kim, and Jin Woo Oh
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TuP-102

Sustained Release of Bioactive Molecules from Leaf-Stacked Structure for Bone Regeneration

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TuP-103

BMP-2-Loaded Porous Membrane with Leaf-Stacked Structure as A Guided Bone Regeneration

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TuP-104

Structural Colorimetric Sensor based on M-13 Virus to Detect Endocrine Disruptor

Yujin Lee, Jong-Sik Moon, Eunjung Choi, and Jin-Woo Oh
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TuP-105

Engineered Functional Peptide M 13 Nanofiber Accelerates Directional Growth and Proliferation of Fibroblasts

Ye Ji Kim, Soojin Jo, Eun Jung Choi, and Jin-Woo Oh
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TuP-106

Conformal Metal Oxide Electrochemical Transistors for Glucose Sensing

Tae In Kwon, Se Rin Lim, and You Seung Rim
Sejong Univ., Korea



TuP-107

Electrochemical synthesis of Gold Nanoparticles on ITO/Graphene Nanoparticles to Control osteogenesis of Human Mesenchymal Stem Cells

Ee-Seul Kang¹, Da-Seul Kim¹, Yoojoong Han¹, Hyungbin Son¹, and Tae-Hyung Kim¹
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TuP-108

Wearable Carbon Nanotube Based Biosensors for Healthcare monitoring Systems

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TuP-109

Oral Delivery of Lactoferrin-Conjugated Macromolecules for Curing Brain Tumor

Dong Yun Lee
Hanyang Univ., Korea

TuP-110

Green Synthesis of Zinc Oxide Nano Particles, its Characterization and Application in Agriculture as well as in Healthcare

R Sahu and Kamal Kishor
OSDD, India

TuP-111

Development of An Amyloid β Nano-Biosensor Using Gold Nano Particle

Sung-Woong Han and Hoon-Kyu Shin
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