

CONFERENCE PROGRAMME

Sunday, 10 September 2017

16:00 – 19:00 **Registration with welcome buffet**

Monday, 11 September 2017

9:00 – 9:15 **OPENING**
Jiří Kotek (Director of the Institute) and
Hugh D. Burrows (Representative of IUPAC)

LECTURE SESSION 1

Chaired by: Yasuhiro Koike (Japan)

9:15 – 10:00 Plenary lecture PL-01
Paras N. Prasad (USA)
Hierarchical functional polymers and nanocomposites
for chiral photonics, optoelectronics and nanomedicine

10:00 – 10:20 Invited lecture IL-01
Takanori Fukushima (Japan)
AIE luminogen-appended polymer sensors toward
extracellular Ca²⁺ imaging

10:20 – 10:40 Invited lecture IL-02
Henrique Leonel Gomes (Portugal)
Ultrasensitive bioelectronic devices based on conducting
polymers for electrophysiology studies

10:40 – 11:00 *Coffee break*

LECTURE SESSION 2

Chaired by: Takanori Fukushima (Japan)

11:00 – 11:20 Invited lecture IL-03
Kilwon Cho (Republic of Korea)
Enhanced photon harvesting and exciton dissociation in
organic solar cells with controlled molecular orientation

- 11:20 – 11:40 Invited lecture IL-04
Denis Andrienko (*Germany*)
Molecular understanding of organic-organic interfaces and mixtures
- 11:40 – 12:00 Invited lecture IL-05
Robert Nowakowski (*Poland*)
Self-assembling properites of thiophene based semiconducting derivatives of complex electronic structure
- 12:00 – 12:15 Oral communication O-01
Wojciech Pisula (*Poland*)
Mono- and multilayer organic field-effect transistors by self-assembly
- 12:15 – 12:30 Oral communication O-02
Arthur Markus Anton (*Germany*)
The orientation of distinct subunits in an n-type copolymer as separately revealed by IR-TMOA

12:30 – 14:00

Lunch

LECTURE SESSION 3

Chaired by: Kilwon Cho (Republic of Korea)

- 14:00 – 14:40 Plenary lecture PL-02
Yasuhiro Koike (*Japan*)
Photonics polymers for high-speed and high-quality 8K display
- 14:40 – 15:00 Invited lecture IL-06
Priscilla Gloria Lorraine Baker (*South Africa*)
Electroanalytical evaluation of electrospun polyamic acid nanomaterials and nanofibres
- 15:00 – 15:20 Invited lecture IL-07
Muriel Hissler (*France*)
Coordination chemistry and phosphole rings: An efficient tool towards the development of polymers

15:20 – 15:35 Oral communication O-03
Sigurd Schrader (*Germany*)
Silicon-organic hybrid ring resonator: Investigation of the electro-optic response

15:35 – 16:00 *Coffee break*

LECTURE SESSION 4A

Chaired by: Muriel Hissler (France)

16:00 – 16:15 Oral communication O-04
Jiří Vohlídal (*Czech Republic*)
Synthesis and properties of new responsive conjugated constitutional dynamic systems

16:15 – 16:30 Oral communication O-05
Francesco Galeotti (*Italy*)
Alcohol soluble conjugated polymers for interfacial engineering in optoelectronics

16:30 – 16:45 Oral communication O-06
Yuna Kim (*Japan*)
Photoresponsive cholesteric liquid crystals for color and mechanical functions

16:45 – 17:00 Oral communication O-07
Mohamad Mohamad Ayad (*Egypt*)
Catalytic properties of polypyrrole-coated cotton fabric decorated with silver nanoparticles

17:00 – 17:15 Oral communication O-08
Oxana Gribkova (*Russian Federation*)
Conductive nanocomposites based on polyaniline and 2D layered structures

17:15 – 17:30 Oral communication O-09
Zitouni Benabdelghani (*Algeria*)
Elaboration of semiconducting materials based on polyaniline and polypyrrolidone

LECTURE SESSION 4B

Chaired by: Sergei Baranovskii (Germany)

- 16:00 – 16:15 Oral communication O-10
Andrey Kadashchuk (Ukraine)
The role of transport band edge variation on delocalized charge transport in high-mobility crystalline organic semiconductors
- 16:15 – 16:30 Oral communication O-11
Vojtech Nádaždy (Slovakia)
Energy-resolved electrochemical impedance spectroscopy – unique method for DOS mapping in organic semiconductors
- 16:30 – 16:45 Oral communication O-12
Alessia Senes (Netherlands)
Horizontal orientation of transition dipole moments in solution processed small molecular emitters
- 16:45 – 17:00 Oral communication O-13
Silvia Janietz (Germany)
Thermal stabilization of the bulk-heterojunction morphology in polymer-fullerene solar cells
- 17:00 – 17:15 Oral communication O-14
Michal Cifra (Czech Republic)
Optical and electrostatic properties of tubulin
- 17:15 – 17:30 Oral communication O-15
Karel Král (Czech Republic)
Charge transfer or energy transfer between quasi-zero-dimensional nanostructures
- 17:30 – 19:00 **Poster Session I: Posters P-01 – P-40**

Tuesday, 12 September 2017

LECTURE SESSION 5

Chaired by: Thuc-Quyen Nguyen (USA)

- 9:00 – 9:40 Plenary lecture PL-03
Andrew Monkman (*United Kingdom*)
100% triplet harvesting without heavy metals. Ultra efficient OLEDs using TADF.
- 9:40 – 10:00 Invited lecture IL-08
Hugh D. Burrows (*Portugal*)
On-chain and off-chain energy transfer in nanostructured fluorene-based conjugated polyelectrolytes
- 10:00 – 10:20 Invited lecture IL-09
Philipp Stadler (*Austria*)
3rd generation conductive polymers – metallic, transparent conductors and functional electrodes
- 10:20 – 10:35 Oral communication O-16
Yukiko Iwasaki (*Japan*)
Effect of energy transfer on operational lifetimes of phosphorescent OLEDs

10:35 – 10:55

Coffee break

LECTURE SESSION 6

Chaired by: Andrew Monkman (United Kingdom)

- 10:55 – 11:15 Invited lecture IL-10
Gregory Charles Welch (*Canada*)
N-annulated perylene diimides for organic electronics: New materials design, practical synthesis and processing, and photovoltaic performance
- 11:15 – 11:35 Invited lecture IL-11
Yutaka Ie (*Japan*)
Novel π -conjugated systems for organic semiconducting materials

- 11:35 – 11:55 Invited lecture IL-12
Matej Mičušík (*Slovakia*)
Polypyrrole based composites for solar cell application
- 11:55 – 12:10 Oral communication O-17
Martin Vácha (*Japan*)
Single-molecule spectroscopy of conjugated polymers: photoluminescence and electroluminescence of polyfluorenes
- 12:10 – 12:25 Oral communication O-18
Aneta Słodek (*Poland*)
Donor-acceptor system based on quinoline with fluorene, bithiophene and carbazole motifs – synthesis, photophysical properties and DFT studies

12:25 – 14:00

Lunch

LECTURE SESSION 7

Chaired by: Hugh D. Burrows (Portugal)

- 14:00 – 14:40 Plenary lecture PL-04
Thuc-Quyen Nguyen (*USA*)
Understanding open-circuit voltage of organic bulk heterojunction solar cells
- 14:40 – 15:00 Invited lecture IL-13
Joannis Kallitsis (*Greece*)
Semiconducting polymers and hybrids for OPVs & PLEDs
- 15:00 – 15:20 Invited lecture IL-14
Shahzad Ahmad (*Spain*)
Defect passivation in organo halide perovskite: Influence on photovoltaic properties
- 15:20 – 15:35 Oral communication O-19
Rana Nakar (*France*)
Thiophene/carbazole based hole transporting material for perovskite solar cells

15:35 – 16:00

Coffee break

LECTURE SESSION 8

Chaired by: Jacek Ulański (Poland)

- 16:00 – 16:15 Oral communication O-20
Uwe Posset (*Germany*)
Polymer-based electrochromic films by pilot-scale roll-to-roll processing
- 16:15 – 16:30 Oral communication O-21
Lubomír Kubáč (*Czech Republic*)
Conductive textile materials and their application for electronic devices
- 16:30 – 16:45 Oral communication O-22
Radosław Pawłowski (*Poland*)
PMMA, EVA as a organic vehicle in paints for electroenergetic
- 16:45 – 17:00 Oral communication O-23
Igor Krupa (*Qatar*)
Electrically conductive composites for development of oil sensors
- 17:00 – 17:15 Oral communication O-24
Tomáš Syrový (*Czech Republic*)
Printed electronics towards to healthcare and environmental sensing applications
- 17:15 – 17:30 Oral communication O-25
Elena Turco (*Czech Republic*)
Mass production and applications in organic flexible electronics: Pilot lines and use cases

17:30 – 19:00

Poster Session II: Posters P-41 – P-77

Wednesday, 13 September 2017

LECTURE SESSION 9

Chaired by: Luisa Torsi (Italy)

- 9:00 – 9:40 Plenary lecture PL-05
Paul W. M. Blom (*Germany*)
Polymer light-emitting diodes with balanced charge transport
- 9:40 – 10:00 Invited lecture IL-15
Sergei Baranovskii (*Germany*)
Theoretical description of charge transport in polymers: to simulate or to think?
- 10:00 – 10:20 Invited lecture IL-16
Jacek Ulański (*Poland*)
Photogeneration of charge carriers in densely packed layers of fullerene derivative
- 10:20 – 10:35 Oral communication O-26
Kazuhiko Seki (*Japan*)
Dissociation yield of charge pairs in organic photovoltaic cells with and without an external electric field

10:35 – 10:55

Coffee break

LECTURE SESSION 10

Chaired by: Paul W. M. Blom (Germany)

- 10:55 – 11:35 Plenary lecture PL-06
Luisa Torsi (*Italy*)
Label-free protein electronic detection with an electrolyte-gated organic field-effect transistor-based immunosensor
- 11:35 – 11:55 Invited lecture IL-17
Stergios Logothetidis (*Greece*)
Intelligent R2R printing for organic electronics: The new digital nanomanufacturing

- 11:55 – 12:10 Oral communication O-27
Heinz von Seggern (*Germany*)
 Thin-film dielectrics for low-voltage organic field-effect transistors
- 12:10 – 12:25 Oral communication O-28
Beata Luszczynska (*Poland*)
 Development of transparent photodetectors based on low bandgap (X-DADAD)n polymer absorbing in the NIR range
- 12:25 – 12:40 Oral communication O-29
Myung-Gil Kim (*Republic of Korea*)
 Multifunctional organic-semiconductor interfacial layers for solution-processed oxide semiconductor thin-film transistor
- 12:40 – 12:55 Oral communication O-30
Yu-Hsin Chang Chien (*Taiwan*)
 Donor-acceptor and linkage effect for volatile organic transistor memory devices applications

12:55 – 14:00

Lunch

14:00 – 17:30

Social programme (Guided tour in Prague)

18:30 – 22:00

Conference dinner

Thursday, 14 September 2017

LECTURE SESSION 11

Chaired by: Yingping Zou (People's Republic of China)

9:00 – 9:40

Plenary lecture PL-07

Emmanuel Iwuoha (*South Africa*)

Smart polymeric and nanocomposite materials for electro-photovoltaic energy systems and sensors

9:40 – 10:00

Invited lecture IL-18

Reinhard Berger (*Germany*)

Synthetic carbon and isoelectronic nanostructures

- 10:00 – 10:20 Invited lecture IL-19
Youngjong Kang (*Republic of Korea*)
Eutectic crystallization of organic semiconductors
- 10:20 – 10:35 Oral communication O-31
Ding-Hung Lan (*Taiwan*)
Using two-step ultrasonic spray deposition to fabricate perovskite thin film for active layer of solar cell devices application

10:35 – 10:55

Coffee break

LECTURE SESSION 12

Chaired by: Emmanuel Iwuoha (South Africa)

- 10:55 – 11:15 Invited lecture IL-20
Ikuyoshi Tomita (*Japan*)
 π -conjugated polymers possessing group 14-16 elements-blocks by post-element-transformation technique
- 11:15 – 11:35 Invited lecture IL-21
Turan Ozturk (*Turkey*)
Fused thiophenes and their applications
- 11:35 – 11:55 Invited lecture IL-22
Daniel Ayuk Mbi Egbe (*Austria*)
Defining the side chain sequence in anthracene-containing PPE-PPVs – synthesis and characterization
- 11:55 – 12:10 Oral communication O-32
Seth McAfee (*Canada*)
Intricate molecular acceptors accessible from direct heteroarylation synthesis for simple, high-performance organic solar cells
- 12:10 – 12:25 Oral communication O-33
Abby-Jo Payne (*Canada*)
Towards simple low-cost molecular materials via direct heteroarylation for use in air processed organic photovoltaics

12:25 – 14:00

Lunch

LECTURE SESSION 13

Chaired by: Ikuyoshi Tomita (Japan)

14:00 – 14:40

Plenary lecture PL-08

Yingping Zou (*People's Republic of China*)

High performance polymers for photovoltaics and NIR-II imaging

14:40 – 15:00

Invited lecture IL-23

Frédéric Laquai (*Saudi Arabia*)

Photophysics of non-fullerene acceptors in organic photovoltaic devices

15:00 – 15:20

Invited lecture IL-24

Florian von Wrochem (*Germany*)

Ultra-robust molecular thin-films and functional materials for organic electronics

15:20 – 15:35

Oral communication O-34

Martin Vala (*Czech Republic*)

Molecular engineering of diketopyrrolopyrrole semiconductors

15:35 – 15:50

Oral communication O-35

Zino Leijten (*Netherlands*)

Interface analysis and oxygen mapping of organic photovoltaics

15:50 – 16:05

Oral communication O-36

Harald Hoppe (*Germany*)

Energetics at organic multi-heterojunctions via analysis of charge-transfer emission

16:05 – 16:30

Closing of the Meeting, Farewell drink

LIST OF POSTERS

- P-01** Y. Ohtsuka, T. Seki, **Y. Takeoka** (*Japan*)
Thermally tunable angle-independent structurally coloured hydrogels
- P-02** **A. S. Cruz-Zavala**, V.A. Escobar-Barrios (*Mexico*)
Effect of sulfonation of polysulfone on the electrical behavior
- P-03** J. M. Bressanin, **J. R. Bartoli** (*Brazil*)
Electrically conductive nanocomposites of PMMA and carbon nanotubes prepared by *in situ* polymerization under probe sonication
- P-04** **G. Szafraniec-Gorol**, S. Krompiec (*Poland*)
Cyclometalated iridium(III) and platinum(II) complexes – synthesis, photophysical properties and DFT studies
- P-05** A. Kirakosyan, D. Kim, S. Yun, **J. Choi** (*Republic of Korea*)
Self-assembled polymer-grafted nanoparticles for photonic coating applications
- P-06** **A. Sengul**, S. Isik Buyukeksi, A. R. Ozkaya, A. Altindal (*Turkey*)
Electrochemical and photovoltaic studies on water soluble triads: Metallosupramolecular self-assembly of ditopic bis(imidazole)perylene diimide with platinum(II)-, and palladium(II)-2,2':6',2''-terpyridyl complex ions
- P-07** H. Zheng, L. Zhang, **J.-C. Shi** (*People's Republic of China*)
Process for constructing fluorinated terphenyl
- P-08** **A. Ruiu**, E. Rivera (*Mexico*)
Development of pyrene labelled dendrons as potential nitro compounds sensors
- P-09** **F. Gallardo**, J. Soto, J. Aristizabal, J. Ahumada, C. Escalona (*Chile*)
Synthesis and characterization of polymethacrylates containing thiophene as side chain with applications in organic transistors
- P-10** **I. González Méndez**, E. Rivera, J. Solano Becerra (*Mexico*)
Synthesis of novel supramolecular star-like and dendritic systems for controlled drug delivery

- P-11 H. M. Passos**, N. S. Sabatini, J. F. Medeiros, C. C. Longo, M. I. Felisberti (*Brazil*)
Copolynaphthalimides: Synthesis under mild conditions and structure-properties relationships
- P-12 A. Janošević Ležaić**, M. Milojević-Rakić, D. Bajuk-Bogdanović, I. Pašti, G. Ćirić-Marjanović, S. Luginbühl, P. Walde (*Serbia*)
AOT vesicles-assisted enzyme-catalyzed oligomerization of *N*-phenyl-1,4-phenylenediamine: Raman spectroscopy and cyclic voltammetry study
- P-13 M. Trchová**, P. Bober, J. Stejskal (*Czech Republic*)
Conducting polypyrrole nanotubes: Infrared and Raman spectroscopies
- P-14 P. Bober**, M. Trchová, J. Pflieger, N. Gavrilov, I. Pašti, J. Stejskal (*Czech Republic*)
Carbogels: Carbonized conducting polyaniline–poly(vinyl alcohol) aerogels
- P-15 J. Stejskal**, P. Bober (*Czech Republic*)
Reduction of silver ions with polyaniline/poly(vinyl alcohol) cryogels
- P-16 K.-W. Park**, S. Kim, O. Kwon, Y. Kim, **J. Hong** (*Republic of Korea*)
Ferroelectric polarization switching behavior of uniaxially strained P(VDF-TrFE) thin films
- P-17 S. Kim**, K.-W. Park, **J. Hong** (*Republic of Korea*)
The effects of humidity and domain polarity on retention loss in P(VDF-TrFE) thin films
- P-18 B. A. Zasonska**, U. Acharya, P. Bober (*Czech Republic*)
Multifunctional polypyrrole@maghemite@silver composites: Synthesis, physico-chemical characterization, and biological applications
- P-19 M. Weiter**, M. Vala, J. Krajčovič, A. Kovalenko (*Czech Republic*)
DPPs for high performance OFETs and photonics – tailoring of materials properties
- P-20 V. Kašpárková**, P. Humpolíček, N. Maráková, P. Bober, J. Stejskal (*Czech Republic*)
Colloidal polyaniline dispersions for preparation of flexible conducting surfaces

- P-21 K. Narushima, S. Hirata, M. Vácha (Japan)**
Visualization of triplet exciton diffusion in crystalline upconversion materials
- P-22 J. Sun, Z. Xie, S. Zhou (People's Republic of China)**
The synthesis and optical limiting properties of tetrathiafulvalene-based molecule
- P-23 P. Humpolíček, V. Kašpárková, Z. Capáková, P. Bober, J. Stejskal, J. Pacherník (Czech Republic)**
Preparation of conducting biocompatible surfaces
- P-24 A. Strachota, K. Depa, M. Šlouf, J. Brus, V. Cimrová (Czech Republic)**
Synthesis of conductive doubly filled poly(N-isopropylacrylamide) / polyaniline / SiO₂ hydrogels
- P-25 J.-H. Yu, J.-S. Yeo, S.-I. Na (Republic of Korea)**
Interface engineering of n-i-p structured perovskite solar cells based on top fluorine-functionalized and reduced graphene oxide (FrGO) interfacial layer
- P-26 U. Kostiv, V. Lobaz, J. Kučka, M. Hrubý, V. Proks, M. Šlouf, D. Horák (Czech Republic)**
¹²⁵I-labeled upconversion nanoparticles for multimodal *in vivo* imaging
- P-27 P. Toman, M. Menšík, J. Pflieger (Czech Republic)**
Modeling of the charge carrier mobility in disordered polymer semiconductors
- P-28 T. Ishiguro, K. Kasahara, N. Ikeda, Y. Sugimoto (Japan)**
Possibility of surface plasmon generation in phase and scattering in organic light emitting diodes
- P-29 C. Escalona, J. Soto, J. Ahumada, F. Gallardo (Chile)**
Conductive polymers: Synthesis, characterization and electropolymerization of substituted carbazole and ethylenedioxythiophene copolymers
- P-30 E. Witkowska, G. Wiosna-Salyga, I. Glowacki, J. Ulanski, B. Orwat, M.-J. Oh, I. Kownacki (Poland)**
Polymer light emitting diodes based on new cationic iridium complexes

- P-31 N. R. Ko**, M. Nafiujjaman, K. Cherukula, S. J. Lee, C. H. Park, I.-K. Park, Y.-K. Lee, I. K. Kwon (*Republic of Korea*)
Facile microwave-assisted synthesis of silk fibroin-based carbon quantum dots
- P-32 K. Grytsenko**, Y. Kolomzarov, F. Heinrich, B. Dietzel, V. Ksianzou, **S. Schrader** (*Germany*)
Dye-filled polytetrafluoroethylene films for optical applications
- P-33 K. Grytsenko**, P. Lytvyn, V. Kurdiukov, Y. Slominskii, J. Briks, V. Ksianzou, **S. Schrader** (*Germany*)
Self-assembly of dye deposits: Molecule structure vs. substrate
- P-34 J. Jevrić**, S. M. Langenegger, R. Häner (*Switzerland*)
Multilayered vesicles formed by polyaromatic oligoamines: Potential light harvesting spheres
- P-35 N. Bürki**, Y. Vyborna, S. M. Langenegger, R. Häner (*Switzerland*)
Functionalized two-dimensional supramolecular polymers
- P-36 O. Kohut**, E. Tomšík (*Czech Republic*)
Symmetrical high-rate pseudocapacitors based on polyaniline/carbon cloth electrodes
- P-37 S.-W. Kim**, S.-N. Kwon, S.-I. Na (*Republic of Korea*)
Graphene-like carbon nanosheets converted from brominated polystyrene and its application to organic photovoltaics
- P-38 M. Menšík**, P. Toman, J. Pflieger (*Czech Republic*)
Analysis of time-dependent diffusion constants in time-resolved absorption spectroscopy
- P-39 V. Gancheva**, G. Grancharov, P. Mokreva, R. Kalinova, P. Petrov, R. Gergova, G. Popkirov, M. Sendova-Vassileva (*Bulgaria*)
Optical, structural and photovoltaic properties of PTB7-Fx based organic solar cells
- P-40 M. Kořínek** (*Czech Republic*)
Modular photoluminescence lifetime spectrometer: Flexibility at your fingertips

- P-41 J. S. Yu, J. H. Cho, Y.-J. Kwark** (*Republic of Korea*)
Synthesis of poly (vinyl amine) with controlled architectures using raft process
- P-42 J. S. Yu, Y.-J. Kwark** (*Republic of Korea*)
Non-fluorinated acyclic copolymer as water repellent materials
- P-43 S. Y. Lee, T.-H. Huh, Y.-J. Kwark** (*Republic of Korea*)
Controlling size and distribution of silver phase in silver/polyimide film
- P-44 E. Falletta, C. Della Pina, M. A. De Gregorio, L. Clerici** (*Italy*)
Polyaniline: An innovative sampling support/adsorbent for VOCs in air matrices
- P-45 K. J. Lee, J.-W. Kang** (*Republic of Korea*)
Protection of silver nanowires for flexible transparent electrode based on silk fibroin film for solar cell applications
- P-46 D. Výprachtický, V. Pokorná, P. Babičová, V. Cimrová** (*Czech Republic*)
New syntheses of conjugated polymers and monomers for organic photovoltaics
- P-47 D. Výprachtický, V. Pokorná, P. Babičová, V. Cimrová** (*Czech Republic*)
Poly[N,N'-dialkylperylene-3,4:9,10-tetracarboxydiimide-1,7-diyl-*alt*-9-alkylcarbazole-2,7-diyl or 9,9-dioctylfluorene-2,7-diyl] copolymers: Synthesis and photophysical properties
- P-48 M. K. Jeon, J.-W. Kang** (*Republic of Korea*)
Flexible perovskite solar cells based on low temperature hot-air quenching process
- P-49 S. W. Hong, S. Lee, S. J. Lee** (*Republic of Korea*)
An analysis of interfacial characteristics between poly(vinylidene fluoride) (PVdF) and Cu substrate
- P-50 M. M. Ovhal, R. T. Ginting, J.-W. Kang** (*Republic of Korea*)
Flexible and semitransparent supercapacitor based on conducting polymers for wearable energy storage

- P-51 U. Acharya**, P. Bober, J. Stejskal, J. Pflieger (*Czech Republic*)
Polypyrrole-molybdenum(IV) sulfide composite with increased electrical conductivity
- P-52 S.-R. Shin**, E.B. Jeon, N. Kumar, J.-W. Kang (*Republic of Korea*)
Improved light out-coupling efficiency of flexible OLEDs with micro-textured films
- P-53 B. Pawłowski**, R. Pawłowski, P. Sobik, O. Jeremiasz (*Poland*)
EVA, graphene, and nanosilver composites with thermal conductive properties
- P-54 L. Mracek**, A. Hamáček, T. Syrový, S. Nespurek (*Czech Republic*)
Electrochemical transistors with ionic liquids
- P-55 J. Tousek**, J. Tousekova, R. Chomutova, I. Krivka, J. Stejskal (*Czech Republic*)
Mobility of holes in polyaniline films by frequency dependent impedance and CELIV measurements
- P-56 K.-J. Ko**, S.-R. Shin, J.-W. Kang (*Republic of Korea*)
Fabrication and characterization of hollow fiber based organic light emitting diode
- P-57 E. B. Jeon**, W.-Y. Jin, J.-W. Kang (*Republic of Korea*)
Improved performance of organic solar cells using micro-cone array textured flexible transparent electrodes
- P-58 B. Paruzel**, D. Rais, M. Menšík, J. Pflieger, E. Pavlova, M. Šlouf (*Czech Republic*)
Morphology, electrical and optical properties of poly(3-hexylthiophene) thin film/gold nanoparticles surface array system
- P-59 F. Piana**, B. Paruzel, J. Pflieger (*Czech Republic*)
Dependence of the dielectric properties of crosslinked poly[(2-cyanoethyl vinyl ether)-co-(vinyl alcohol)] on the curing agents
- P-60 P. I. Kos**, A. A. Gavrilov, A. V. Chertovich (*Russian Federation*)
Stability of polymer dispersions during evaporation
- P-61 T. Nakamura**, S. Hirata, M. Vácha (*Japan*)
Fluorescence properties and conformation of polyfluorene single chains in different environments

- P-62 S.-M. Bang**, S.-N. Kwon, B.-G. Lim, S.-I. Na (*Republic of Korea*)
Improved performance of perovskite solar cells with various dopant-free conjugated polymers as hole transporting materials
- P-63 M. Oh**, B. Parida, K.-J. Ko, J.-W. Kang, H. Kim (*Republic of Korea*)
Low-temperature electroluminescence analysis of lead iodide-based perovskite light-emitting diodes
- P-64 W.-Y. Jin**, J.-W. Kang (*Republic of Korea*)
Wearable solar textiles based on integrated fabrics
- P-65 A. Luczak**, L. Janasz, J. Jung, **J. Ulanski** (*Poland*)
Morphology effect on charge carrier transport in organic semiconductors at low temperatures
- P-66 V. Cimrová**, V. Pokorná, A. L. D. Yonkeu, D. Výprachtický (*Czech Republic*)
Donor-acceptor thienothiadiazole-based copolymer series: Photophysical, transport and photovoltaic properties
- P-67 V. Cimrová**, Z. Morávková, V. Pokorná, D. Výprachtický (*Czech Republic*)
Investigation of thienothiadiazole-based copolymer films and their blends with fullerene in the active layers of bulk heterojunction solar cells by optical and raman spectroscopy
- P-68 V. Cimrová**, V. Pokorná, D. Výprachtický (*Czech Republic*)
Thermochromic and spectroelectrochemical properties of donor-acceptor copolymers with thienothiadiazole-based electron acceptor and various electron donor units
- P-69 D. Rais**, P. Toman, M. Vala, M. Weiter, S. Stříteský, J. Krajčovič, M. Menšík, Y. R. Panthi, J. Pflieger (*Czech Republic*)
Searching for singlet exciton fission: Quantifying yield of photogenerated triplet states with ultrafast transient absorption method
- P-70 A. Růžička**, N. Bouguerra, S. Boudiba, V. Pokorná, D. Výprachtický, D. A. M. Egbe, V. Cimrová (*Czech Republic*)
Photophysical and transport properties of poly[(arylene ethynylene)-*alt*-(arylene vinylene)] copolymers

- P-71 S. Alam**, O. V. Nwadiaru, R. Meitzner, J. Cann, J. Ahner, M. D. Hager, D. A. M. Egbe, G. C. Welch, U. S. Schubert, H. Hoppe (*Germany*)
Introduction of non-fullerene acceptors into organic solar cells based on anthracene-containing PPE-PPVs
- P-72 S. Stritesky**, L. Omasta, O. Salyk, J. Vitecek, E. Safarikov, M. Vala, M. Weiter (*Czech Republic*)
Organic electrochemical transistors for cell culture monitoring
- P-73 S. Boudiba**, S. Bouguessa, A. Getachew, C. Ulbricht, S. Enengl, C. Enengl, L. Boudiba, A. Gouasmia, D.A.M. Egbe (*Algeria*)
Synthesis, characterisation and photophysical properties of a new anthracene-containing polymer
- P-74 J. Skocdopole**, L. Kalvoda, P. Nozar (*Czech Republic*)
Preparation of polymeric coatings by ionized jet deposition method
- P-75 K. Pauk**, A. Imramovský, M. Vala, S. Luňák Jr. (*Czech Republic*)
New dipole-type molecules as materials for high two-photon cross-section
- P-76 P. Steglich**, B. Dietzel, C. Villringer, S. Pulwer, A. Mai, C. Mai, M. Casalboni, S. Schrader (*Germany*)
Targeting femto-joule on-chip optical switches using a silicon-organic hybrid ring resonator
- P-77 C. Li, P. Steglich**, B. Dietzel, C. Villringer, M. Klomdsorff, S. Pulwer, A. Mai, C. Mai, S. Schrader (*Germany*)
Immobilization of biotin and streptavidin on APTES functionalized silicon surface for on-chip photonic biosensors