

5th International Symposium on Flexible Organic Electronics (ISFOE12)

2-5 July 2012, Thessaloniki, Greece

Preliminary Program

Monday 2 July 2012

08:00 – 20:00	Registration
09:00 – 09:15	"Welcome and Opening Remarks" S. Logothetidis ISFOE Chairman
09:30 – 11:00	Organic Semiconductors 1 Chairs:
09:15 – 09:45 KEYNOTE	"Scientific and Engineering Challenges and Opportunities in Printable and Flexible Organic Electronics" G. Hadziioannou <i>Laboratoire de Chimie des Polymères Organiques (LCPO), CNRS / UNIV. Bordeaux 1 / ENSCPB, France</i>
09:45 – 10:00	"Probing the Role of the First Monolayer in Solution Processed Polymeric Field-Effect Transistors for both Microstructure Evolution and Device Performance" Suhao Wang, Wojciech Pisula, Klaus Müllen <i>Max Planck Institute for Polymer Research, Germany</i>
10:00 – 10:15	"Performance enhancement of ZnPC:C60 bulk heterojunction solar cells via interface optimization" S. Kassavetis ¹ , P. Karagiannidis ² , T. Mete ¹ , W. Shindler ¹ , S. Logothetidis ² , and K. Fostiropoulos ¹ ¹ <i>Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Hahn-Meitner-Platz 1, 14109 Berlin, Germany</i> ² <i>Lab for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece</i>
10:15 – 10:30	"Design rules for fullerene/polymer composites used in organic bulk heterojunction solar cells" P. Troshin ¹ , D. Susarova ¹ , E. Khakina ¹ , O. Mukhacheva ¹ , A. Goryachev ¹ , C. Kaestner ² , S. Ponomarenko ³ , H. Hoppe ² , V. Razumov ¹ , D. Egbe ⁴ , N. S. Sariciftci ⁴ ¹ <i>Institute for Problems of Chemical Physics of Russian Academy of Sciences, Russia</i> ² <i>Ilmenau University of Technology, Institute of Physics, Germany</i> ³ <i>Enikolopov Institute of Synthetic Polymer Materials, Russian Academy of Sciences, Russia</i> ⁴ <i>Linz Institute for Organic Solar Cells (LIOS), Johannes Kepler University Linz, Austria</i>
10:30 – 10:45	"Electronic Structure Investigation of a Naphthalene Bisimide Derivative at the Interface With Gold" K. Emmanouil ¹ , D. Tsikritzis ¹ , S. Kennou ¹ , R. Rybakiewicz ² , P. Gawrys ² , M. Zagorska ² ¹ <i>Department of Chemical Engineering, University of Patras, Greece</i> ² <i>Faculty of Chemistry, Warsaw University of Technology, Poland</i>
10:45 – 11:00	"Impact of thermal annealing on the morphology and interfacial composition of bulk heterojunction organic solar cells" P.G. Karagiannidis, M. Seitanidou, N. Kalfagiannis, D. Georgiou, A. Laskarakis, C. Pitsalidis, S. Logothetidis <i>Lab for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, Greece</i>

11:00 – 11:30 Coffee Break - Posters – Exhibition - Networking

11:30 – 13:30 Organic Semiconductors 2

	Chairs:
11:30 – 12:00 INVITED	"Controlled Crystallization of Semiconducting Polymer Thin Films From Molecular Scale to Macroscopic Order" S. Ludwigs <i>Institut für Polymerchemie Universität Stuttgart, Germany</i>
12:00 – 12:15	"Gap states mapping of organic semiconductors by electrochemical impedance spectroscopy" V. Nádaždy ¹ , K. Gmucová ¹ , F. Schauer ² , M. Weis ¹ ¹ <i>Institute of Physics SAS, Slovak Republic</i> ² <i>Faculty of Informatics, Tomáš Bata University, Czech Republic</i>
12:15 – 12:30	"High ionization potential amorphous π -conjugated polymer field-effect transistors with high mobility of 0.3 cm ² /Vs" S. Georgakopoulos ¹ , D. Sparrow ² , F. Meyer ² , M. Shkunov ¹ ¹ <i>Advanced Technology Institute, University of Surrey, UK</i> ² <i>Merck Chemicals, Chilworth Technical Centre, University Parkway, UK</i>
12:30 – 12:45	"Excited state dynamics in merocyanine films and their blends with fullerene derivatives" D. Peckus ¹ , A. Devizis ¹ , D. Hertel ² , and V. Gulbinas ¹ ¹ <i>Center for Physical Sciences and Technology, Lithuania</i> ² <i>Department of Chemistry, University of Cologne, Germany</i>
12:45 – 13:00	"Triphenylene-based one-dimensional liquid crystalline semiconductors" P. Sleczkowski ^{1,2} , N. Katsonis ² , J-L. Fave ¹ , E. Lacaze ¹ ¹ <i>Institut des NanoSciences de Paris, UMR 7588 CNRS, Université Pierre et Marie Curie, France</i> ² <i>MESA+ Institute for Nanotechnology, University of Twente, The Netherlands</i>
13:00 – 13:15	"Optical and Vibrational Properties of 2-(2'-hydroxyphenyl) benzoxazole Derivatives" E.C. Moreira ¹ , L.M. Schneider ¹ and F.S. Rodembusch ² ¹ <i>Laboratório de Espectroscopia, Universidade Federal do Pampa, UNIPAMPA, Brazil</i> ² <i>Laboratório de Novos Materiais Orgânicos, Universidade Federal do Rio Grande do Sul, UFRGS, Instituto de Química, Brazil</i>
13:15 – 13:30	"Gravure printing and characterization of P3HT:PCBM thin films for organic photovoltaics" C. Koidis, C. Kapnopoulos, P. G. Karagiannidis, D. Georgiou, S. Kassavetis, C. Pitsalidis, A. Laskarakis, and S. Logothetidis <i>Lab for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, Greece</i>

13:30 – 15:00 Lunch Break - Networking

Tuesday 3 July 2011

08:00 – 20:00	Registration
---------------	--------------

09:00 – 11:00 Organic Semiconductors 2 Chairs:	
09:00 – 09:30 KEYNOTE	"From Growth Studies to Devices: organic and nano-hybrid structure synthesis by kinetic activated processes" S. Iannotta, L. Aversa, S. Gottardi, T. Toccoli, M. Tonezzer, R. Verucchi IMEM-CNR, Institute of Materials for Electronics and Magnetism, Italy
09:30 – 09:45	"Optoelectronic materials based on different semiconducting copolymers" L. Kallitsis Department of Chemistry, University of Patras, Greece
09:45 – 10:00	"Organic semiconductors for n-type transistors: tetraesters of tetraazaanthracene" P. Gawrys ¹ , T. Marszalek ² , E. Bartnik ¹ , M. Kucinska ² , J. Ulanski ² and M. Zagorska ¹ ¹ Faculty of Chemistry, Warsaw University of Technology, Poland ² Department of Molecular Physics, Technical University of Lodz, Poland
10:00 – 10:15	"Evidence for an organic semiconductor transition layer at the dielectric interface of polymer field-effect transistors" J.-M. Zhuo ^{1,2} , L.-Y. Wong ² , G.-H. Lim ² , H. Guo ² , L.-H. Zhao ¹ , X.-J. Yu ³ , A.T.-S. Wee ^{2,3} , W.-S. Sim ² , L.-L. Chua ^{1,2} , P.K.-H. Ho ² ¹ Department of Chemistry, National University of Singapore, Singapore ² Department of Physics, National University of Singapore, Singapore ³ Singapore Synchrotron Light Source, National University of Singapore, Singapore
10:15 – 10:30	"TIPS-functionalized Anthra- and Benzodithiophene Derivatives for solution processable Organic Thin Film Transistors" K. Schulze, T. Bilkay, T. Egorov-Brening, S. Janietz Fraunhofer Institute for Applied Polymer Research, Germany
10:30 – 10:45	"Metals and Insulating Molecules on the Rubrene Single Crystal Surface: Model Interfaces of an Organic Field Effect Transistor" Y. Nakayama ¹ , J. Niederhausen ² , S. Machida ³ , H. Kinjo ³ , Y. Uragami ³ , A. Vollmer ⁴ , N. Koch ² , H. Ishii ^{1,3} ¹ Center for Frontier Science, Chiba University, Japan ² Institut für Physik, Humboldt-Universität zu Berlin, Germany ³ Graduate School of Advanced Integration Science, Chiba University, Japan ⁴ BESSY-II, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Germany
10:45 – 11:00	"High-mobility and low turn-on voltage n-channel OTFTs based on solution processable derivative of naphthalene bisimide" I. Tsztydel ¹ , M. Kucinska ¹ , T. Marszalek ² , R. Rybakiewicz ² , A. Nosal ³ , J. Jung ³ , M. Gazicki-Lipman ³ , C. Pitsalidis ⁴ , C. Gravalidis ⁴ , S. Logothetidis ⁴ , M. Zagorska ² , J. Ulanski ¹ ¹ Department of Molecular Physics and European Centre for Bio- and Nanotechnology, Technical University of Lodz, Poland ² Faculty of Chemistry, Warsaw University of Technology, Poland ³ Institute of Materials Science and Engineering, Technical University of Lodz, Poland ⁴ Laboratory for Thin Films Nanosystems and Nanometrology, Physics Department, Aristotle University of Thessaloniki, Greece

11:00 – 11:30	Coffee Break – Posters ISFOE12 & FP7 – Exhibition - Networking
---------------	--

11:30 – 13:30 Transparent Electrodes Chairs:		11:30 – 13:30 Laser Technologies 2 Chairs:	
11:30 – 12:00 INVITED	"PolyIC's Roll to Roll Technology Platform Printed Products for Transparent Conductive Films (PolyTC) and Intelligent Packaging" Wolfgang Mildner PolyIC GmbH & Co. KG, Germany	11:30 – 12:00 INVITED	"Laser Processing of OLEDs and Organic Solar Cells with a Roll-to-Roll Manufacturing Process" Thomas Kießling, Jens Haenel, Maurice Clair, Christian Scholz 3D-Micromac AG
12:00 – 12:15	"Flexible ultrathin alloy layer as transparent electrode for indium-free organic photovoltaics indicates spatially inhomogeneous trap distributions" D. S. Ghosh ¹ , N. Formica ¹ , T. L. Chen ¹ , J. Hwang ² , I. Bruder ² , and V. Pruneri ^{1,3} ¹ ICFO-Institut de Ciències Fotòniques, Spain ² BASF SE, Germany ³ ICREA- Institució Catalana de Recerca i Estudis Avançats, Spain	12:00 – 12:30 INVITED	"Laser-Direct Parallel Patterning of Conductive Films for Electronic Applications" Choonghoe Kim, Myeongkyu Lee Dept of Materials Science and Engineering, Yonsei University, Korea
12:15 – 12:30	"FeCl ₃ intercalated few-layer graphene as a transparent conductor" I. Khrapach, F. Withers, T. Bointon, D. Polyushkin, W. Barnes, S. Russo, M.F. Craciun Centre for Graphene Science, University of Exeter, UK	12:15 – 12:30	"Laser technologies for 3D-Systems in Package on flexible substrates" E. Biver ¹ , J. Ailuno ¹ , M. Berta ² , A. Daleo ³ , L. Rapp ¹ , T. Phan ² , S. Maria ² , P. Alloncle ¹ , D. Gigmes ² , F. Fages ³ , Ph. Delaporte ¹ ¹ LP3, CNRS – Aix-Marseille University, Luminy Campus, France ² ICR, CNRS, Aix-Marseille University, St-Jérôme Campus, France ³ CINaM, CNRS, Aix-Marseille University, Campus de Luminy, France
12:30 – 12:45	"Electromechanical reliability of copper metallization on polymers" Oleksandr Glushko, Megan J. Cordill Montanuniversitaet Leoben, Materials Science Department, Austria	12:45 – 13:00	"Improving the resolution of R2R printed features by laser ablation" T.C. Claypole ¹ , S.M. Hamblyn ¹ , D.T. Gethin ¹ and P. Mason ² ¹ Welsh Centre for Printing and Coating, Swansea University ² Millenium Lasers, UK
12:45 – 13:00	"Numerical and experimental optimization of ZnO/Ag/ZnO multilayer electrodes for optoelectronic devices" A. El Hajji ¹ , S. Vedraïne ² , Ph. Torchio ² , B. Lucas ¹ , F. Flory ² ¹ XLIM Institute, CNRS-UMR 6172, Limoges University, France ² Institut Matériaux Microélectronique Nanosciences de Provence-IM2NP, CNRS-UMR 6334, Aix-Marseille University, Domaine Universitaire de St-Jérôme, France	13:00 – 13:15	"Laser Printing of Semiconducting Polymer Materials For Organic Solar Cells" I. Kalpyris, E. Sepretzoglou, I. Zergioti Physics Department, National Technical University of Athens, Greece
13:00 – 13:15	"High Efficiency and Air-Stable Inverted Polymeric Bulk-Heterojunction Solar Cells with Hydrophilic Conjugated Polymers as the Interlayer on ITO Cathode" J. Chen, Y. Cao State Key Lab of Luminescent Materials & Devices, Institute of Polymer Optoelectronic Materials & Devices, South China Univ. of Technology, China	13:15 – 13:30	"A hybrid dielectric ink consisting of TiO ₂ nanoparticle dispersed polyvinyl alcohol (PVA) " Saumen Mandal ^{1,2} , Monica Katiyar ^{1,2} ¹ Department of Materials Science & Engineering ² Samtel Centre for Display Technologies, Indian Inst. Technology Kanpur, India

13:30 – 15:00 Lunch Break - Posters ISFOE12 & FP7 - Networking

15:00 – 17:30 OPV 1		OLED Displays & Lighting	
15:00 – 15:30 INVITED	"Dye-sensitized hybrid bulk heterojunction solar cells: from high quantum efficiency towards new concepts" <u>Jörg Ackermann</u> <i>Centre Interdisciplinaire de Nanoscience de Marseille (CINaM), France</i>	15:00 – 15:30 INVITED	"Design rules for charge-transport efficient hosts for phosphorescent OLEDs" <u>Denis Andrienko</u> <i>Max Planck Inst. for Polymer Research, Germany</i>
15:30 – 16:00 INVITED	"On the stability of a variety of organic photovoltaic devices by IPCE and in-situ IPCE analyses-The ISOS-3 inter laboratory collaboration" <u>Monica Lira-Cantu</u> ¹ et al. <i>Centre d'Investigació en Nanociència i Nanotecnologia (CIN2, CSIC), Laboratory of Nanostructured Materials for Photovoltaic Energy, ETSE, Spain</i>	15:30 – 15:45	"Spectral stability of white organic light emitting diodes" <u>Ma Dongge</u> <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i>
		15:45 – 16:00	"Highly Efficient White Light-Emitting Devices Base on Polyfluorenes Containing Dibenzothiophene-S,S-dioxide Moiety" <u>Wei Yang</u> , Hongbin Wu, Yong Cao <i>School of Materials Science & Engineering, State Key Laboratory of Luminescent Materials & Devices, South China University of Technology, China</i>
16:00 – 16:15 PROJECT	"PRIMA: Plasmon Resonance for IMproving the Absorption of solar cells" <u>Tom Aernouts</u> <i>Organic Photovoltaics, IMEC, Belgium</i>	16:00 – 16:15	"Phosphorescent Dendrimers and Polymers for Solution Processed PLED" <u>Lixiang Wang</u> <i>State Key Laboratory of Polymer Physics and Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China</i>
16:15 – 16:30	"Design and synthesis of isoindigo-based low band gap polymers for polymer solar cells" <u>Ergang Wang</u> , ¹ Zaifei Ma, ² Patrik Henriksson, ¹ Olle Inganäs, ² Fengling Zhang, ² and Mats R. Andersson ¹ ¹ <i>Department of Chemical and Biological Engineering/Polymer Technology, Chalmers University of Technology, Sweden</i> ² <i>Biomolecular and Organic Electronics, IFM, Linköping University, Sweden</i>	16:15 – 16:30	"PELD – Printed Electro-Luminescent Driver" A. Marek ¹ , M. Kneidinger ¹ , A. Lehner ¹ , P. Hummenberger ¹ , H. Tumfart ¹ C. Lackner ¹ , F. Eibensteiner ² , <u>M. Sams</u> ³ ¹ <i>LiTec Linzer Technikum, HTL Paul Hahn Linz, Austria</i> ² <i>Prelonic technologies, Austria</i> ³ <i>Institute for Integrated Circuits, Johannes Kepler University Linz, Austria</i>
16:30 – 16:45	"Lifetime studies on solar cells fabricated with PCPDTBT synthesized by Pd-catalysed direct arylation polymerisation" <u>Jeff Kettle</u> ¹ , Huw Waters ¹ , S.W. Chang ² , M. Horie ² ¹ <i>School of Electronic Engineering, Bangor University, UK</i> ² <i>Frontier Research Center on Fundamental and Applied Sciences of Matters, Department of Chemical Engineering, National Tsing-Hua University, Taiwan</i>	16:30 – 16:45	"Transparent bacterial cellulose/ poly(ether imide) nanocomposite as substrate for flexible organic devices" <u>Calil, V.L.</u> ^{1,2} , Moreira, G.F. ¹ , Barud, H.S. ³ , Ribeiro, S.J.L. ³ , Cremona, M. ^{1,2} ¹ <i>Organic Device Laboratory, Dimat, Inmetro, Brazil</i> ² <i>Molecular Optoelectronic Laboratory, Physics Department, PUC-Rio, Brazil</i> ³ <i>Institute of Chemistry, UNESP, Brazil</i>
16:45 – 17:00	"Organic Photovoltaic Cells applying ZnO nanorod electrodes" I. Gonzalez-Valls ¹ , D. Angmo ² , S. A. Gevorgyan ² , F. C. Krebs ² and <u>M. Lira-Cantu</u> ¹ ¹ <i>Centre d'Investigació en Nanociència i Nanotecnologia (CIN2, CSIC), Laboratory of Nanostructured Materials for Photovoltaic Energy, ETSE, Spain</i> ² <i>Department of Energy Conversion and Storage, Technical University of Denmark, Denmark</i>	16:45 – 17:00	"Three-Carbazole-Armed Host Materials for Highly Efficient Organic Light-Emitting Diodes" <u>Shi-Jian Su</u> <i>Institute of Polymer Optoelectronic Materials and Devices, South China University of Technology, China</i>
17:00 – 17:15	"In Situ Raman probing of polymer solar cell annealing" <u>V.V. Bruevich</u> , A.A. Mannanov, V.A.Trukhanov, D.Yu. Paraschuk <i>Faculty of Physics & International Laser Center, Lomonosov Moscow State University, Russia</i>	17:00 – 17:15	"Determination of Optical constants of Transparent Thin Film conducting Electrode for Display Application" <u>S. Tiwari</u> , Ch. Sharma Rajesh Awasty, R. Patel, V. Kant Jogi, and J.K.Sharma <i>SoS in Electronics, Pt Ravishankar Shukla University, India</i>
17:15 – 17:30	"Molecularly-templated Polymer Network Solar Cells with Ultrafine Crosslinked Donor-Acceptor Morphology" <u>Bo Liu</u> ¹ , Rui-Qi Png ¹ , Richard H. Friend ^{1,2} , Lay-Lay Chua ^{1,2,3} , and Peter K.H. Ho ¹ ¹ <i>Department of Physics, National University of Singapore, Singapore,</i> ² <i>Department of Chemistry, National University of Singapore, Singapore,</i> ³ <i>Cavendish Laboratory, University of Cambridge, UK</i>		

17:30 – 18:30 Coffee Break - Posters ISFOE12 & FP7 – Exhibition - Networking

18:30 - 20:30 PLENARY (COMMON WITH NN12)	
18:30 – 19:10	<u>Phaedon Avouris</u> <i>Nanoscale science and technology group, Thomas J. Watson Research Center, IBM Research Division, USA</i>
19:10 – 19:50	"Design of Nano and renewables" <u>Alex Zunger</u> <i>University of Colorado, Boulder Colorado, USA</i>
19:50 – 20:30	<u>George Malliaras</u> <i>Dept of Bioelectronics, CMP, ENSMSE, France</i>
20:30	DINNER

Wednesday 4 July 2011

08:00 – 20:00	Registration
---------------	---------------------

09:00 – 11:00 Bioelectronics 1	
09:00 – 09:30 KEYNOTE	"Interfacial effects in bioelectronic OFETs" <u>Luisa Torsi</u> <i>Dipartimento di Chimica - Università degli Studi di Bari, Italy</i>
09:30 – 10:00 INVITED	"Conducting Polymer Devices for Neural Interfacing" <u>George Malliaras</u> <i>Dept of Bioelectronics, CMP, ENSMSE, France</i>
10:00 – 10:30 INVITED	"Chemo and biosensing based on charge detection by organic field effect devices" Monia Demelas, Stefano Lai, Andrea Spanu, Massimo Barbaro, Piero Cosseddu, and <u>Annalisa Bonfiglio</u> <i>Dept of Electrical and Electronic Engineering, University of Cagliari, Italy</i>
10:30 – 10:45	"Hydrogen Photogeneration in Polymeric Systems" <u>E. Lanzarini</u> ^{1,2} , M.R. Antognazza ¹ , L. Laudato ^{1,2} , G. Lanzani ^{1,2} ¹ Center for Nano Science and Technology @Polimi, Istituto Italiano di Tecnologia, Italy ² Politecnico di Milano, Dip.to di Fisica, Italy
10:45 – 11:00	"Modulation of biofilm formation processes using conducting polymers" <u>S. Gomez-Carretero</u> ^{1,3} , K. Persson ^{2,3} , P. Kjäll ^{1,3} , M. Berggren ^{2,3} , A. Richter-Dahlfors ^{1,3} ¹ Swedish Medical Nanoscience Center, Department of Neuroscience, Karolinska Institutet, Sweden ² Department of Science and Technology, Campus Norrköping, Linköpings Universitet, Sweden ³ Strategic Research Center for Organic Bioelectronics (OBOE)

11:00 – 11:30	Coffee Break – Posters ISFOE12 & FP7 – Exhibition - Networking
---------------	---

11:30 – 13:30 Bioelectronics 2	
11:30 – 12:00 INVITED	TITLE <u>Giuseppe Scarpa</u> <i>Institute for Nanoelectronics, Technische Universitat Munchen, Germany</i>
12:00 – 12:30 INVITED	TITLE <u>Roisin Owens</u> <i>Dept of Bioelectronics, CMP, ENSMSE, France</i>
12:30 – 12:45	"Real-Time Spectroscopic Ellipsometry to Study Protein Adsorption onto Organic Thin Films" <u>M. Gioti</u> , V. Karagkiozaki, and S. Logothetidis <i>Department of Physics, Aristotle University of Thessaloniki, Greece</i>
12:45 – 13:00	"Plasmonic nanosensors in the detection and remedy of cancer" <u>S.Das</u> ¹ , J.Turunen ² <i>Dept of Physics and Mathematics, University of Eastern Finland, Finland</i>
13:00 – 13:15	"Fluorescence based biosensors, simultaneous enzyme immobilisation and micro-fabrication using SU-8 resin for fluorescence" <u>P.D. van der Wal</u> ¹ , S.D. Psoma ² , N.F. de Rooij ¹ ¹ Institute of Microengineering, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland ² Dept of Engineering of Informatics and Telecommunications, University of Western Macedonia, Greece
13:15 – 13:30	tbf

13:30 – 15:00	Lunch Break - Posters ISFOE12 & FP7 - Networking
---------------	---

15:00 – 17:30 OPV 2 Workshop Chair:	
15:00 – 15:30 INVITED	"Plastic solar cells: from inkjet printing to roll-to-roll processing" <u>Paul Lacharme</u> <i>CETEMMSA Technological Centre, Spain</i>
15:30 – 16:00 INVITED	"Design of molecular donors for organic solar cells" <u>J. Roncali</u> <i>Group Linear Conjugated Systems, Moltech, France</i>
16:00 – 16:30 INVITED	"Nano-scale resolution imaging of phase separation and crystallization processes in molecular layer systems" <u>K. Fostiropoulos</u> <i>Helmholtz-Zentrum Berlin, Germany</i>
16:30 – 16:45	"X10D: Efficient, low-cost, stable tandem organic devices" <u>Tom Aernouts</u> <i>Organic Photovoltaics, IMEC, Belgium</i>
16:45 – 17:00	"Optimizing PCDTBT:PC70BM and P3HT:PC60BM polymer fullerene solar cells" <u>P.G. Karagiannidis</u> , M. Seitanidou, D. Georgiou, A. Laskarakis, C. Pitsalidis, S. Logothetidis <i>Lab for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, Greece</i>
17:00 – 17:15	"Effect of Phase Morphology on Device Efficiency in Poly(thiophene)-Fullerene Organic Photovoltaics" <u>A. Karim</u> ¹ , A. Huq ¹ , J.C. Garza ¹ , X. Gong ¹ , D.G. Bucknall ² , N. Deb ² , S. Sides ³ ¹ Department of Polymer Engineering, University of Akron, USA ² Department of Materials Science and Engineering Georgia Institute of Technology, USA ³ Tech-X Corporation, Colorado, USA
17:15 – 17:30	"Solution-processed triple bulk heterojunction organic photovoltaic cells: enhanced power conversion efficiencies with the incorporation of a heterophenanthroquinone" <u>R. Sai Santosh Kumar</u> ¹ , E.V. Canesi ¹ , L. Colella ² , Z. Kan ¹ , G. Lerario ¹ , V. Bonometti ³ , P.R. Mussini ³ , C. Bertarelli ² , and P. E. Keivanidis ¹ ¹ Center for Nano Science and Technology@PoliMi, Istituto Italiano di Tecnologia, Italy ² Dipartimento di Chimica, Materiali e Ing. Chimica "G. Natta", Politecnico di Milano, Italy ³ Dipartimento di Fisica Chimica ed Elettrochimica, Università degli Studi di Milano, Italy

17:30 – 18:00	Coffee Break - Posters ISFOE12 & FP7 – Exhibition - Networking
---------------	---

18:00 – 19:45		OPV 3 Workshop Chair:
18:00 – 18:30 INVITED	"Enhancement of Power Conversion Efficiency of Bulk-Heterojunction Polymer Solar Cells by Plasmonic Gold Nanoparticles" <u>J. Pfeleger</u> <i>Institute of Macromolecular Chemistry, ASCR, v.v.i., Czech Republic</i>	
18:30 – 19:00 INVITED	"Nanotechnologies based on hybrid material for PV applications" <u>B.Fillon</u> , S.Perraud, E.Quesnel, JP Garandet <i>CEA/LITEN, France</i>	
19:00 – 19:15	"A comprehensive study on the performance of plasmonic organic photovoltaics doped with silver nanoparticles" <u>N. Kalfagiannis</u> ¹ , P.G. Karagiannidis ¹ , C. Pitsalidis ¹ , N. T. Panagiotopoulos ² , C. Gravalidis ¹ , S. Kassavetis ¹ , P. Patsalas ³ and S. Logothetidis ¹ ¹ Laboratory for Thin Films – Nanosystems and Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, Greece ² University of Ioannina, Department of Physics, Greece ³ University of Ioannina, Department of Materials Science and Engineering, Greece	
19:15 – 19:30	"Nanoscale morphological study of polymer solar cells by current sensing AFM" <u>Ghislain Boloma</u> ¹ , Valérie Coudert ² , Fabrice Rossignol ² , Johann Bouclé ¹ , Bernard Ratier ¹ ¹ Institut XLIM, UMR 6172, Université de Limoges/CNRS, France ² Laboratoire de Science des Procédés Céramiques et de Traitements de Surface (SPCTS), France	
19:30 – 19:45	"Influence of the surface modification procedure of the CdSe and CuInS₂ nanocrystals on the performance of hybrid solar cells" <u>N.Radtchev</u> , M. Kruszynska, I.Lokteva, R. Miranti, J. Kolny-Olesiak, H. Borchert, J. Parisi <i>Dept of Physics, University of Oldenburg, Germany</i>	
19:45 – 20:00	"Doped organic solar cells: numerical modeling" V.A. Trukhanov, V.V. Bruevich, <u>D.Yu. Paraschuk</u> <i>Faculty of Physics & International Laser Center, Lomonosov Moscow State University, Russia</i>	

Thursday 5 July

08:00 – 20:00	Registration
---------------	--------------

09:00 – 10:00		Smart Textiles & Stretchable Electronics
09:00 – 09:30 INVITED	"SYSTEX: Coordination action for enhancing the breakthrough of intelligent textile systems (e-textiles and wearable microsystems)" <u>Carla Hertleer</u> <i>Ghent University, Belgium</i>	
09:30 – 09:45 PROJECT	"FLEXIBILITY:Flexible Multifunctional Bendable Integrated Light-Weight Ultra-Thin Systems" <u>Frank Ellinger</u> <i>Dresden University of Technology, Germany</i>	
09:45 – 10:00	"Textile based dye-sensitized solar cells" <u>S. Sensfuss¹, G. Nazmutdinova¹, H. Schache¹, M. Rudolph², M. Beu², K. Strauch², D. Schlettwein², Y. Zimmermann³, A. Neudeck³</u> ¹ <i>Thuringian Institute for Textile and Plastics Research, Dep. Functional Polymer Systems and Physical Research, Germany</i> ² <i>Justus-Liebig-University Giessen, Institute of Applied Physics, Germany</i> ³ <i>Textile Research Institute Thuringia-Vogtland, Germany</i>	
10:00 – 11:00		Sensors & Integrated Systems
10:00 – 10:30 INVITED	TITLE <u>Isabelle Chartier</u> <i>CEA LITEN, France</i>	
10:30 – 10:45 PROJECT	"ORICLA: Towards Electronic Product Coding with RFID tags based on hybrid organic-oxide complementary thin-film technology" <u>Tom Aernouts</u> <i>Organic Photovoltaics, IMEC, Belgium</i>	
10:45 – 11:00	"LABEL-FREE APPROACH FOR DOPAMINE SENSING BASED ON ELECTROLYTE-GATED ORGANIC FIELD EFFECT TRANSISTOR (EGOFET)" <u>F. Leonardi^{1,2}, S. Casalini¹, T. Cramer¹, F. Biscarini¹</u> ¹ <i>Consiglio Nazionale delle Ricerche, Istituto per lo studio dei Materiali Nanostrutturati (CNR-ISMN), Italy</i> ² <i>Alma Mater Studiorum, Università degli Studi di Bologna, Italy</i>	

11:00 – 11:30	Coffee Break – Posters ISFOE12 & FP7 – Exhibition - Networking
---------------	--

11:30 – 13:30		Manufacturing Processes
11:30 – 12:00 INVITED	"Vapor Phase Processing: Nano-controlled Thin Films and its application in Organic Electronics" <u>Nico Meyer</u> <i>AIXTRON, Germany</i>	
12:00 – 12:30 INVITED	"Production methods for large area electronics" <u>Thomas Kolbusch</u> <i>Coatema, Germany</i>	
12:30 – 12:45	"Roll to Roll Production for Printed Electronics" <u>Thomas Kießling, Jens Haenel, Maurice Clair, Daniel Pickarski, Rocco Kundt, Bernd Keiper, Christoph Folgner</u> <i>3D-Micromac AG, Germany</i>	
12:45 – 13:00	"Towards a workflow and tools dedicated to inkjet for printed electronics" <u>M. Borella, et. al.</u> <i>Ceradrop, France</i>	
13:00 – 13:15	" In-Line Spectroscopic Ellispometry as a tool for monitoring the quality of r2r gravure printed materials" <u>D. Georgiou, A. Laskarakis, C. Koidis, S. Logothetidis</u> <i>Lab for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Dept. Aristotle University of Thessaloniki, Greece</i>	
13:15 – 13:30	"R2R printing of conductive fine lines on flexible substrates by flexography" <u>T.C. Claypole, D.T. Gethin and D.Deganello</u> <i>Welsh Centre for Printing and Coating, Swansea University, UK</i>	
13:30 – 13:45	"Advances in ultrafast sintering of nanoparticle silver inks and its quality assessment for R2R manufacturing" <u>D.Deganello^{1,2}, M. Cherrington^{1,2}, D.A. Worsley², T.C. Claypole^{1,2}</u> ¹ <i>Welsh Centre for Printing and Coating</i> ² <i>College of Engineering, Swansea University, UK</i>	

13:45 – 15:00	Lunch Break - Posters ISFOE12 & FP7 - Networking
---------------	--

15:00 – 16:00		Manufacturing Processes
15:00 – 15:30 INVITED	"Functional films by roll-to-roll nanoimprint lithography" <u>Nikos Kehagias</u> <i>Catalan Institute of Nanotechnology (ICN-CIN2), Spain</i>	
15:30 – 16:45	"Ellipsometry and Polarimetry for research and quality control of thin coatings on flexible substrates" <u>R. Seitz¹, C. Eypert², J. Gaston²</u> ¹ <i>Horiba Scientific, Germany</i> ² <i>Horiba Scientific, France</i>	
15:45 – 16:00	"Pushing the limits in the R2R production of printed electronics" <u>Andrea Glawe, A. Frank Schäfer</u> <i>KROENERT GmbH & Co KG, Germany</i>	
16:00 – 17:30		OTFTs & Circuits
16:00 – 16:30 INVITED	"Organic field-effect transistors based on small molecules: Impact of the molecular structure" <u>Christine Videlot-Ackermann</u> <i>Centre Interdisciplinaire de Nanoscience de Marseille (CINaM), France</i>	
16:30 – 16:45 PROJECT	"COSMIC: Complementary Organic Semiconductor and Metal Integrated Circuits" <u>Axel Wille</u> <i>Fraunhofer EMFT, Germany</i>	
16:45 – 17:00 PROJECT	"TDK4PE: Technology & Design Kits for Printed-Electronics" <u>Jordi Carrabina</u> <i>Universitat Autònoma de Barcelona, Spain</i>	
17:00 – 17:15	"Ultra-low voltage Thin Film Transistors fabricated on flexible substrates" <u>Piero Cosseddu, Stefano Lai, Massimo Barbaro, and Annalisa Bonfiglio</u>	

	<i>University of Cagliari, Italy</i>
17:15 – 17:30	"Novel operation of organic transistors with high IP polymers" M. Shkunov ¹ , S. Georgakopoulos ¹ , D. Sparrowe ² , F. Meyer ² ¹ Advanced Technology Institute, University of Surrey, UK ² Merck Chemicals, Chilworth Technical Centre, University Parkway, UK

17:30 – 18:00	Coffee Break - Posters ISFOE12 & FP7 – Exhibition - Networking
---------------	--

18:00 – 19:15	OTFTS & Circuits
18:00 – 18:30 INVITED	"The role of the morphology of the gate dielectric-semiconducting layer interface in all-polymer field-effect transistors" Mark Geoghegan University of Sheffield, UK
18:30 – 18:45	"Electrode's Effect on the Stability of Organic Transistors and Circuits" Liqiang Li, Harald Fuchs, Lifeng Chi Institute of Physics, Muenster University, Germany
18:45 – 19:00	"Blade-coated TIPS-Pentacene OFETs utilizing PMMA buffer layer: Improvement of uniformity and reproducibility by controlling the crystallization process" C. Pitsalidis ¹ , N. Hastas ² , N. Kalfagiannis ¹ , P. Karagiannidis ¹ , C. Kapnopoulos ¹ , S. Logothetidis ¹ ¹ Lab for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, Greece ² Physics Department, Aristotle University of Thessaloniki, Greece
19:00 – 19:15	"Pentacene Based Diodes for Investigating Trap Characteristics in the Thin and Thick Pentacene Phases: Correlation with TFT Parameters" T. Mandal, A. Garg, Deepak IIT Kanpur, India
19:15 – 20:15	Networking & Commercialization
19:15 – 19:30 PROJECT	"FlexNet: NoE for building up Knowledge for improved Systems Integration for Flexible Organic and Large Area Electronics (FOLAE) & its Exploitation" Constantin Von Dewitz VDI/VDE Innovation + Technik GmbH, Germany
19:30 – 19:45 PROJECT	"Reinforce Organic Electronics Research Potential in Kentriki Makedonia (ROleMak) " A. Laskarakis, S. Logothetidis Lab for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, Greece
19:45 – 20:00 PROJECT	"FP7 Coordination & Support Actions Project "Commercialization Clusters of OLAE" (COLAE)" M. Chachamidou Lab for Thin Films-Nanosystems and Nanometrology (LTFN), Physics Department, Aristotle University of Thessaloniki, Greece
20:00 – 20:15 PROJECT	tbf
20:15 – 20:30	Young Researcher Award for Best Oral and Best Poster Presentations Closing Remarks and Discussion

Posters (tentative list)

Organic Semiconductors	
P1	<p>“Interfacial properties of Naphthalene bisimides derivatives with Gold” D. Tsikritzis¹, S. Kennou¹, R. Rybakiewicz², P. Gawrys², M. Zagorska² ¹Chemical Engineering Department, University Of Patras, Greece ²Faculty of Chemistry, Warsaw University of Technology, Poland</p>
P2	<p>“Effect of Inkjet printing parameters on PEDOT:PSS film printed on ITO coated flexible substrates for organic solar cell application” Arjun Singh,^{1,2} Ashish Garg,^{1,2} Monica Katiyar^{1,2} ¹Department of Materials Science & Engineering & ²Samtel Center for Display Technologies, Indian Institute of Technology, India</p>
P3	<p>“Influence of various chemical additives on optical properties, morphology and photovoltaic performance of the fullerene/polymer bulk heterojunction solar cells” D. Susarova, L. Leshanskaya, Z. Dzhivanova, V. Martynenko, P. Troshin, V. Razumov Institute for Problems of Chemical Physics of Russian Academy of Sciences, Russia</p>
P4	<p>“Alternative ways for creating donor-acceptor polymeric and carbon allotrope hybrid architectures for organic electronics” S. N. Kourkoulis¹; S. Kakogianni¹; P. Giannopoulos¹; A.K. Andreopoulou^{1,2}; A. A. Stefopoulos^{1,2}; J. K. Kallitsis^{1,2} ¹Department of Chemistry, University of Patras, Greece ²Foundation for Research and Technology Hellas, Institute of Chemical Engineering Sciences (FORTH-ICE-HT), Greece</p>
P5	<p>“1,8-Naphthalimide group containing imidazolium salts with different alkyl chain lengths and their application as electrolyte components for DSSCs” Saliha ÖZDEMİR, Canan VARLIKLI, Ceylan ZAFER, Cihan ÖZSOY Solar Energy Institute, Ege University, Turkey</p>
P6	<p>“Effect of Branched Alkyl Chain Length of Amphiphilic Ruthenium Complexes on the Performance of Dye Sensitized Solar Cells” Ceylan ZAFER¹, Cihan ÖZSOY¹, Cigdem ŞAHİN², Canan VARLIKLI¹ ¹Solar Energy Institute, Ege University, TURKEY ²Department of Chemistry, Art & Science Faculty, Pamukkale University, TURKEY</p>
P7	<p>“Optical and Electrical Characterization of Diketopyrrolopyrroles for Organic Electronics and Photonics” M. Špérová, P. Heinrichová, I. Ouzzane, M. Vala, M. Weiter Brno University of Technology, Faculty of Chemistry, Centre for Materials Research, Czech republic</p>
P8	<p>“Electrically conducting films of biphenyl / 3-octylthiophene copolymers synthesized by potentiostatic electropolymerization for organic photovoltaic cells” Karamanou Sophia, Johannis Simitzis National Technical University of Athens, School of Chemical Engineering, Department III, “Materials Science and Engineering”, Laboratory Unit “Advanced and Composite Materials”, Greece</p>
P9	<p>“Electrical properties and energy structure of thin films of glass forming compounds containing styryl-4H-pyran-4-ylidene fragment” K.Pudzis¹, A.Vembris¹, R.Grzybowski¹, B.Turovska² ¹Institute of Solid State Physics, University of Latvia, Latvia ²Latvian Institute of Organic Synthesis, Latvia</p>
P10	<p>“Charge carrier generation and transport in films of neat conjugated polymers and blends with fullerene derivatives” A. Devižis¹, D. Peckus¹, D. Hertel², V. Gulbinas¹ ¹Department of Molecular Compound Physics, Center for Physical Sciences and Technology, Lithuania ²Department of Chemistry, Physical Chemistry, University of Cologne, Germany</p>
P11	<p>“Picene vs pentacene in organic thin-film transistors” Abdou Karim Diallo and Christine Vidélot-Ackermann Centre Interdisciplinaire de Nanoscience de Marseille (CINaM), UMR CNRS 7325, Aix Marseille Université, France.</p>
P12	<p>“Structure-properties study of stable radical carbazole-TTM adducts” C. Gozálviz^{1,2}, S. Galindo², J. Puigdollers², L. Julià³, D. Velasco¹ ¹Grup de Materials Orgànics, Institut de Nanociència i Nanotecnologia (IN2UB), Departament de Química Orgànica, Universitat de Barcelona, Spain ²Departament d'Enginyeria Electrònica & Centre de Recerca en Nanoenginyeria, Universitat Politècnica de Catalunya, Spain ³Institut de Química Avançada de Catalunya (CSIC), Spain</p>
P13	<p>“Red-Emission from Charge Transfer States stabilized by Aggregation Processes in Dual Luminescent Carbazole Systems” M. Reig, F. López-Calahorra and Dolores Velasco Grup de Materials Orgànics, Institut de Nanociència i Nanotecnologia, Departament de Química Orgànica, Universitat de Barcelona, Spain</p>
P14	<p>“Synthesis and optical properties of new luminescent mononuclear copper (I) complexes for OLEDs” I. Andres-Tomé, P. Coppo Wolfson Centre, Brunel University, United Kingdom</p>
P15	<p>“New methods for evaluation of compositional purity and photochemical stability of conjugated polymers designed for photovoltaic applications”</p>

	<p>P. Troshin¹, D. Susarova¹, E. Levchenkova¹, N. Piven², K. Lizgina¹, Y. Moskin², Z. Dzhivanova¹, S. Babenko², V. Razumov¹</p> <p>¹ Institute for Problems of Chemical Physics of Russian Academy of Sciences, Russia ² Institute for Energy Problems of Chemical Physics of Russian Academy of Sciences (Branch), Russia</p>
P16	<p>“Structure of Novel Carbon Monoxide Sensor Based on Ferrocene-Conjugated Polypyrrole”</p> <p>Hamida MB Darwish¹, Salih Okur²</p> <p>¹Department of Physics, Faculty of Science, King Abdul Aziz University, Saudi Arabia ²Department of Material Science and Engineering, Faculty of Engineering in Izmir Katip, Turkey</p>
P17	<p>“Effect of solvent and substrate on microstructure development of drop casted and spin coated 6, 13-bis (Triisopropyl-silylethynyl) pentacene”</p> <p>Saumen Mandal^{1,2}, Monica Katiya^{1,2}</p> <p>¹Department of Materials Science & Engineering & ²Samtel Centre for Display Technologies, Indian Institute of Technology Kanpur,, India</p>
P18	<p>“Charge transporting properties of a family of highly phosphorescent iridium(III) complex-cored dendrimers”</p> <p>S. Gambino¹, Zehua Lu², Kevin A. Knights², Shih-Chun Lo³, P.L. Burn³ and I.D.W. Samuel¹</p> <p>¹Organic Semiconductor Centre, SUPA, School of Physics and Astronomy, University of St Andrews, United Kingdom ²Department of Chemistry, Chemistry Research Laboratory, University of Oxford, United Kingdom ³Centre for Organic Photonics and Electronics, The University of Queensland, Australia</p>

Electrodes	
P19	<p>“Electrical properties of high-resolution structures according to effects of the printing process”</p> <p>Larisa Salun¹, Jacqueline Rausch², Alexandra Lyashenko¹, Edgar Dörsam¹</p> <p>¹Institute of Printing Science and Technology, TU Darmstadt, Germany ²Institute of Electromechanical Design, TU Darmstadt, Germany</p>
P20	<p>“Correlation between Microstructure and Performance of PVDF-TrFE and PMMA Composite Memory Devices”</p> <p>Deepa Singh, Ashish Garg, Deepak</p> <p>Department of Materials Science & Engineering and Samtel Center for Display Technologies Indian Institute of Technology, India</p>
P21	<p>“Flexible Electroluminescent Device with Inkjet Printed Carbon Nanotube Electrodes”</p> <p>Suzanna Azoubel, Shay Shemesh and Shlomo Magdassi</p> <p>Casali Institute of Applied Chemistry, Institute of Chemistry, The Center for Nanoscience and Nanotechnology, The Hebrew University of Jerusalem, Israel</p>

Theoretical	
P22	<p>“Electric field effect on the electronic properties of the Au/ Thymine/Au molecular wire”</p> <p>M.H. Tayarani Najaran, F. Shariati Ashrafi</p> <p>Department of physics, Khayyam University of Mashhad, Iran</p>
P23	<p>“Multidrug resistance protein P-gp interaction with nanoparticles (fullerenes and carbon nanotube) to assess drug delivery to the CNS: a molecular docking study”</p> <p>S. Shityakov, C. Förster</p> <p>Department of Anesthesiology and Critical Care, University of Würzburg, Germany</p>

Laser	
P24	<p>“Laser printing of oligonucleotides, for the fabrication of a label free biosensor”</p> <p>I. Kalpyris¹, M. Chatzipetrou¹, G. Tsekenis², M.K. Filippidou³, V. Tsouti³, S. Chatzandroulis³, I. Zergioti¹</p> <p>¹National Technical University of Athens, Physics Department, Greece ²Biomedical Research Foundation of the Academy of Athens, Greece ³Institute of Microelectronics NCSR Demokritos, Greece</p>
P25	<p>“Laser printing of organic semiconductor for thin film transistor realization”</p> <p>K. Kaur¹, C. Contantinescu¹, L. Rapp¹, A.K. Dialo², F. Serein-Spirau³, J-P. Lère-Porte³, Ch. Videlot-Ackermann², F. Fages², A.P Alloncle¹, Ph. Delaporte¹</p> <p>¹LP3, CNRS – Aix-Marseille University, Luminy Campus, France ²CINaM, CNRS, Aix-Marseille University, Campus de Luminy, France ³ Institut Charles Gerhardt, Ecole Nationale Supérieure de Chimie de Montpellier, France</p>

OPV	
P26	<p>“3D nano-structures for enhanced performance of organic solar cells”</p> <p>Jeff Kettle¹, S.W. Chang², M. Horie²</p> <p>¹School of Electronic Engineering, Bangor University, UK ²Frontier Research Center on Fundamental and Applied Sciences of Matters, Department of Chemical Engineering, National Tsing-Hua University, Taiwan</p>
P27	<p>“Optical anisotropy of thin ZnTPP-films on Si(111)”</p> <p>S. P. Kate¹, S. Pop¹, N. Esser¹, J. Rappich², K. Hinrichs¹</p> <p>¹Leibniz-Institut für Analytische Wissenschaften - ISAS - e.V., Germany ²Helmholtz-Zentrum für Materialien and Energy GmbH, Germany</p>
P28	<p>“Cost effective patterning alternative anode for polymer fullerene organic solar cells on AZO”</p> <p>Miguel García-Vélez¹, A. L. Álvarez¹, C. Coya¹, Xavier Díez-Betriu² and Alicia de Andrés²</p> <p>¹Escuela Superior de Ciencias Experimentales y Tecnologías, Universidad Rey Juan Carlos, Spain ²Instituto de Ciencia de Materiales de Madrid, Consejo Superior de Investigaciones Científicas. Cantoblanco, Spain</p>

P29	<p>“Effect of Thickness Variations of Constituent Layers on Inverted Organic Solar Cells Performance” Shailendra K. Gupta¹, Abhishek Sharma², Radha Gahlot², Nikhil Aggarwal², Deepak¹ and Ashish Garg¹ ¹Department of Materials Science and Engineering, IIT Kanpur, INDIA ²Moser Baer India Limited, INDIA</p>
P30	<p>“Annealing medium effect on TiO₂ based hybrid solar cell” Osman Örne¹, Arif Kösemen^{2,3}, Yusuf YERLİ², Sait Eren SAN² ¹Sakarya University, Faculty of Education, Department of Science Education, Turkey ²Department of Physics, Faculty of Sciences, Gebze Institute of Technology, Turkey ³Department of Physics, Muş Alparslan University, Turkey</p>
P31	<p>“Effect of P3HT: PCBM ratio on TiO₂ thin film based inverted solar cell” Arif KÖSEMEN^{1,3}, Osman ÖRNEK², Zühal ALPASLAN KÖSEMEN¹, Yusuf YERLİ¹, Sait Eren SAN¹ ¹Department of Physics, Faculty of Sciences, Gebze Institute of Technology, Turkey ²Sakarya University, Faculty of Education, Department of Science Education, Turkey ³Department of Physics, Muş Alparslan University, Turkey</p>
P32	<p>“Efficiency Optimization of the CuInS₂ QD Doped Organic-Inorganic Hybrid Solar Cells Through The Nanocrystal Size and Composition Controlling” Cihan OZSOY, Deniz A. ERGUN, Ceylan ZAFER Solar Energy Institute, Ege University, Turkey</p>
P33	<p>“Synthesis and Characterization of a New Family of EDO-TTF Bearing Pyridine Ligands” Y. Hen, X. Xiao, J. Fang Department of Chemical Engineering, Ningbo University of Technology, China</p>

OLEDs	
P34	<p>“Organic light-emitting diode operating at high current density” A. Sidi Said¹, M.S Belkaid¹, M. Laghrouche¹, S. Oussalah² ¹Laboratory of Advanced Technologies of Genie Electrics. Department of Electronics-FGEI, Mouloud Mammeri University, Algeria ²Microelectronics and Nanotechnology Division. Center for Development of Advanced Technologies, Algeria</p>
P35	<p>“Hydrogen doped transition metal oxides for advanced interface engineering in efficient organic light emitting devices” M. Vasilopoulou¹, A.Soultati¹, D. G. Georgiadou¹, L.C.Palilis², A. M. Douvas¹, I. Kostis^{1,3}, S. Kennou⁴, N. A. Stathopoulos⁴, N. Konofaos⁵, A. Iliadis⁶, D. Davazoglou¹, P. Argitis¹ ¹Institute of Microelectronics, NCSR Demokritos, Greece ²Department of Physics, University of Patras, Greece ³Department of Electronics, Technological and Educational Institute of Pireaus, Greece ⁴Department of Chemical Engineering, University of Patras, Greece ⁵Department of Informatics, Aristotle University, Greece ⁶ECE Department, University of Maryland, USA</p>
P36	<p>“Light emission properties of solution processed thin films from organic compounds containing pyraniliden fragment” A. Vembris, K. Pudzs, I. Muzikante University of Latvia, Institute of Solid State Physics, Latvia</p>
P37	<p>“Formation of ZnS thin film for enhanced light out-coupling of OLED lighting” Dang Mo Yoon^{1,2}, Il Gu Kim^{1,3}, Miyoung Kim¹, Seung-Hyun Lee¹, Bum-Joo Lee¹, Chel-Jong Choi³, Choong Hun Lee², Jin-koog Shin¹ ¹Korea Printed Electronics Center, Korea Electronics Technology Institute, Republic of Korea ²Division of Microelectronics and Display Technology Wonkwang University, Republic of Korea ³School of Semiconductor and Chemical Engineering Chonbuk National University, Republic of Korea</p>
P38	<p>“Enhanced electro-optic properties of Inkjet Printing Processed Polymer Organic Light Emitting Diode with Uniform Emission Layer” SongJin Jo¹, Dang Mo Yoon¹, Jae-Taek Kwon¹, Miyoung Kim¹, Seung Hyun Lee¹, Ju Hwan Choi¹, Bum-Joo Lee¹, Sungkyu Park², Jin-Koog Shin¹ ¹Korea Printed Electronics Center, Korea Electronics Technology Institute, Korea ²Electrical and Electronics Engineering, College of Engineering Chung-Ang University, Seoul</p>
P39	<p>“Study on multilayer pixel patterning by inkjet printing in solution-processed small molecule OLEDs” Jae-Taek Kwon^{1,2}, Seung Hyun Lee^{1,4}, Miyoung Kim¹, Bum Joo Lee¹, Dae Hyuk Choi³, Jeong No Lee^{1*}, Jin-Koog Shin¹, Soo-Hyong Lee⁴ ¹Korea Printed Electronics Center, Korea Electronics Technology Institute, Republic of Korea ²School of Flexible Printed Electronics Engineering, Chonbuk National University, Republic of Korea ³DUKSAN HI-METAL Floor #11, Heung Duk U-Tower, Geong Gi Province ⁴School of Semiconductor and Chemical Engineering, Chonbuk National University, Republic of Korea</p>
P40	<p>“White Organic Light Emitting Diodes Prepared by Newly Synthesized Organic Dyes” I. Oner¹, O. Cimen², C. Varlikli¹, H. Dincalp², M. Ozturk³, Y.H. Kaya³ ¹Department of Energy, Solar Energy Institute, Ege University, Turkey ²Department of Chemistry, Faculty of Arts and Science, Celal Bayar University, Turkey ³EAE Electric Joint Stock Company, Turkey</p>
P41	<p>“Producing and Characterizations of Large-Area White OLEDs Based on Organometallic Complexes” I. Oner¹, C. Varlikli¹, M. Ozturk², Y.H. Kaya²</p>

	¹ Department of Energy, Solar Energy Institute, Ege University, Turkey ² EAE Electric Joint Stock Company, Turkey
P42	“Inkjet Printing Processed Polymer Organic Light Emitting Diode with Uniform Emission Layer” SongJin Jo ¹ , Dang Mo Yoon ¹ , Jae-Taek Kwon ¹ , Miyoung Kim ¹ , Ju Hwan Choi ¹ , Bum-Joo Lee ¹ , Sungkyu Park ² , Jin- Koog Shin ¹ ¹ Korea Printed Electronics Center, Korea Electronics Technology Institute, Korea ² Electrical and Electronics Engineering, College of Engineering Chung-Ang University, Seoul
P43	“Analysis of Indium Gallium Zinc Oxide films for the development of active-matrix organic light-emitting diode (AMOLED) displays” T.-T. Nguyen Thi, B. Aventurier, G. Rodriguez, J.-P. Barnes, F. Templier Display Lab, Optics and Photonics Department, CEA-Leti MINATEC Campus, France
P44	“Enhanced Efficiency in OLEDs via surface plasmon cross coupling by using DBR covering an opaque metal layer” Zhang Hongmei, Huang Wei School of Materials Science & Engineering, Nanjing University of Posts and Telecommunications, P. R. China

OTFTs	
P45	“Time resolved photoresponse mapping of pentacene thin film transistors” C. Westermeier, M. Fiebig, B. Nickel Department für Physik and CeNS, Ludwig-Maximilians-Universität, Germany
P46	“Polythiophene Nanowires for Water and Octylamine Sensing Applications” M. Hampton ¹ , A. Dragoneas ² , M. Grell ² , J.E. MacDonald ¹ ¹ School of Physics and Astronomy, Cardiff University, The Parade, UK ² Department of Physics and Astronomy, University of Sheffield, UK
P47	“New materials for biosensing” Ana Alcalde-Aragonés, ¹ Eloi Ramon, ¹ Mariana Medina-Sánchez, ² Carme Martínez-Domingo, ¹ Sandrine Miserere, ² Arben Merkoçi ^{2,3} and Jordi Carrabina ¹ ¹ Printed Microelectronics Group, Center of accessibility and environmental intelligence from Catalonia (CAIAC) Autonomous University of Barcelona, Engineering School, Spain ² Nanobioelectronics & Biosensors Group, Catalan Institute of Nanotechnology (ICN), Autonomous University of Barcelona, Spain ³ Institució Catalana de Recerca i Estudis Avançats (ICREA), Spain
P48	“Charge distribution in the transistor channel measured by Scanning Kelvin Probe Microscopy” M.Kucinska ¹ , M.Szymanski ² , I.Tszydel ¹ , J.Ulanski ¹ , F.Chandezon ² ¹ Department of Molecular Physics, Lodz University of Technology, Company, Poland ² SPRAM 5819 (CEA-CNRS-UJF)/LEMOH CEA, France
P49	“The Effect of Perforation Levels on the Sensing Properties of Monolayer-Capped Metallic Nanoparticle Films” Meital Segev-Bar, Gregory Shuster, Sagi Glikzman, Hossam Haick The Department of Chemical Engineering and Russell Berrie Nanotechnology Institute, Technion – Israel Institute of Technology, Israel
P50	“Double luminescent azocarbazoles for mimicking advanced logic operations” D. Velasco and J. Garcia-Amorós Grup de Materials Orgànics, Institut de Nanociència i Nanotecnologia (IN2UB), Departament de Química Orgànica, Universitat de Barcelona, Spain
P51	“n-Type Organic Thin-Film Transistors based on a Push-Pull Carbazole System” M. Reig, ¹ C. Gozálviz, ¹ A. Marsal, ² J. Puigdollers, ² L. Julià ³ and Dolores Velasco ¹ ¹ Grup de Materials Orgànics, Institut de Nanociència i Nanotecnologia, Departament de Química Orgànica, Universitat de Barcelona, Spain ² Dept. Eng. Electrònica & Centre de Recerca en Nanoenginyeria. Universitat Politècnica de Catalunya, Spain ³ Institut de Química Avançada de Catalunya (CSIC), Spain
P52	“Singlet Excitation Energy Transfer and Triplet Emission for Dual-Wavelength Ratiometric Luminescence Sensing” L. Martelo ^{1,2} , A. Jiménez ² , H. Burrows ¹ , A. Valente ¹ , A. Marques ^{1,3} , M. Forster ³ , U. Scherf ³ , M. Peltzer ² , S. Fonseca ¹ 1 Department of Chemistry, University of Coimbra, Portugal 2 Department of Analytical Chemistry, Nutrition and Food Sciences, University of Alicante, Spain 3 Macromolecular Chemistry Group, Bergische University of Wuppertal, Germany
P53	“Rechargeable Printed Li-ion Batteries Innovative thin-film and flexible Li-ion batteries” J. Salomon, H. Rouault, D. Mourzagh, S. Solan, S. Paillet CEA-Grenoble, Liten/DEHT/LCPB, France
P54	“Gate dielectric solvent effect on OFET performance” Zühal Alpaslan Kösemen ¹ , Derya Malkoç ² , Arif Kösemen ^{1,3} , Büşra Şengez ⁴ , Kadir Esmer ² , Engin Başaran ^{2,5} ¹ Department of Physics, Faculty of Sciences, Gebze Institute of Technology, Turkey ² Department of Physics, Marmara University, Faculty of Arts and Sciences, Turkey ³ Department of Physics, Muş Alparslan University, Turkey ⁴ Department of Chemistry, Faculty of Sciences, Istanbul Medeniyet University, Turkey ⁵ Department of Engineering Physics, Faculty of Sciences, Istanbul Medeniyet University, Turkey
P55	“Solution Processed Polyfluorene : Naphthalenediimide : N-doped TiO2 Hybrids for Ultraviolet Photodetector Applications” Gorkem MEMISOGLU, Canan VARLIKLI, Halide DIKER Solar Energy Institute, Ege University, Turkey