



ERPOS-12

Electronic, Related Properties of Organic Systems

12th INTERNATIONAL CONFERENCE

Poster presentations

**11 July
MONDAY**

18:10 – 20:00 POSTER SESSION I

Dynamics, Coherent Spectroscopy

- P1-01** **STIMULATED EMISSION FROM ORIGINAL GLASS FORMING ORGANIC COMPOUNDS**
A.Vembris, I.Muzikante, R.Karpicz, V.Gulbinas
- P1-02** **LUMINESCENCE PROPERTIES OF STYRYL-4H-PYRAN-4-YLIDENE FRAGMENT CONTAINING DERIVATIVES**
A.Vembris, I.Muzikante, R.Karpicz, V.Gulbinas, S.Jursenas, A.Masojedovas
- P1-03** **ON PHOTO-OXIDATION OF TERRYLENE. CONTRIBUTION TO SINGLE MOLECULE STUDIES**
B. Kozankiewicz, I. Deperasińska, E. Karpiuk, A. Makarewicz
- P1-04** **BIFUNCTIONAL TRIPHENYLAMINE DERIVATIVES FEATURING EMISSION ENHANCEMENT IN A SOLID STATE**
S. Raišys, K. Kazlauskas, M. Daškevičienė, T. Malinauskas, V. Getautis, S. Juršėnas
- P1-05** **EXCITATION WAVELENGTH DEPENDENCE OF THE TRANSIENT SPECTRA OF PERIPHERAL LIGHT – HARVESTING COMPLEXES OF PHOTOSYNTHETIC BACTERIA**
E. Songaila, A. Gall, V. Gulbinas, O. Iliaia, B. Robert, L. Valkunas
- P1-06** **LOW TEMPERATURE EMISSION SPECTRA OF OPTICALLY NONLINEAR N-BENZYL-METHYL-4-NITROANILINE CRYSTAL**
K. Piel, B. Kozankiewicz, J. Lipiński, M. M. Szostak
- P1-07** **ENHANCEMENT OF OPTICAL KERR EFFECT IN NEMATIC LIQUID CRYSTAL DUE TO INTERACTION WITH LOCALIZED SURFACE PLASMON**
P. Karpinski, A. Miniewicz
- P1-08** **FLUORESCENCE POLARIZATION SINGLE COMPLEX IMAGING OF CIRCULAR LH ANTENNA**
Sumera Tubasum, Yuxi Tian, Daniel Thomsson, Richard Cogdell, Ivan Scheblykin, Tõnu Pullerits
- P1-09** **QUANTUM-CHEMICAL CALCULATIONS OF NOVEL PHOSPHORESCENT IRIIDIUM COMPLEXES**
S. Toliautas, J. Šulskus, K. Kazlauskas, S. Juršėnas, V. Getautis, L. Valkūnas
- P1-10** **REDUCTION OF THE GRAPHITE OXIDE TO GRAPHENE WITH LASER IRRADIATION**
R. Trusovas, G. Račiukaitis, J. Barkauskas, R. Mažeikienė
- P1-11** **TEMPERATURE-DEPENDENT ENERGY TRANSFER, LUMINESCENCE OF LANTHANIDE COMPLEXES**
M. Tsvirko, V. Venchikov
- P1-12** **SECOND-ORDER PERTURBATION ANALYSIS OF DISORDERED FRENKEL EXCITONS IN CIRCULAR MOLECULAR AGGREGATES**
M. Gabrielaitis, G. Trinkunas
- P1-13** **PHOSPHORESCENT BIS-CYCLOMETALLATED IRIIDIUM COMPLEXES BASED ON TRIAZOLE LIGAND**
D. Tomkute-Luksiene, T. Malinauskas, A. Masojedovas, K. Kazlauskas, S. Jursenas, V. Getautis
- P1-14** **PHOTOPHYSICS OF ORGANIC, HYBRID LIGHT EMITTING MATERIALS: FROM BODIPY DYES TO QUANTUM DOTS**
Gordon J. Hedley, Arvydas Ruseckas, Nils Froehlich, Ramkumar Santhanagopal, Sybille Allard, Ullrich Scherf, Lenuta Stroea, Francesco Antolini, Anthony Harriman, Ifor D.W. Samuel
- P1-15** **NON-LINEAR MULTIMODAL OPTICAL MICROSCOPE**



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- J. Kiškis, A. Dementjev
- P1-16 SPECTROSCOPIC ANALYSIS OF POLYSILANES CONFINED IN DIFFERENT SiO, TiO NANOSTRUCTURES**
D. Peckus, N. Ostapenko, P. Vodolazkyy, V. Moiseenko, S. Suto, A. Watanabe, V. Gulbinas
- P1-17 EXCITATION ENERGY TRANSFER IN POROUS SILICON, CONJUGATED POLYMER COMPOSITES**
V. Pranculis, R. Karpič, V. Gulbinas
- P1-18 EXCITON DYNAMICS, RELAXATION IN A HETERODIMER**
V. Balevičius, Jr., A. Gelžinis, D. Abramavicius, L. Valkunas
- P1-19 INTRAMOLECULAR VIBRATIONS, QUANTUM COHERENCE DYNAMICS IN 2D SPECTRA SIMULATIONS OF PORPHYRIN HEXAMER**
V. Butkus, D. Abramavicius, D. Zigmantas, R. Augulis, L. Valkunas
- P1-20 LUMINESCENCE STUDY OF DIFFERENT PHASES OF MOLECULAR COMPOUND SALOL**
N.A. Davydova, V.I. Melnik, V.V. Nesprava
- P1-21 APLIANE OF SMECTIC PHASE OF PHOTOCHROMIC LIQUID CRYSTALS FOR HOLOGRAPHIC GRATING RECORDING**
M. Czajkowski, J. Mysliwiec, S. Bartkiewicz, K. Zygodlo, Z. Galewski
- P1-22 DIRECT OBSERVATION OF THE n, π^* -TYPE EXCITED SINGLET, TRIPLET STATES OF *N*-TRIPHENYLMETHYLSALICYLIDENEIMINE MOLECULE**
Aleksandra Lewanowicz, Lech Sznitko, Renata Karpicz
- P1-23 TERAHERZ PROBING OF CNT / EPOXY COMPOSITES**
I. Macutkevicius, D. Seliuta, G. Valusis, J. Banyas, P. Kuzhir, M. Shuba, A. Paddubskaya, S. Maksimenko, L. Coderoni, F. Micciulla, G. Rinaldi, I. Sacco, S. Bellucci
- P1-24 DICHOTOMOUS EXCITON MODEL IN SPECTRAL SIMULATIONS OF LIGHT-HARVESTING COMPLEXES**
J. Meldaiakis, O. Zerlauskienė, D. Abramavicius, L. Valkunas
- P1-25 SPECTROSCOPIC PROPERTIES OF CARBAZOLE-FLUORENEBENZOTIADIAZOLE COMPOUNDS**
R. Karpicz, S. Puzinas, S. Malickaja, S. Toliautas, J. Sulskus, V. Gulbinas
- P1-26 CHARACTERIZATION OF POSITIVE CHARGE BEARING MERCAPTOHEXYLPYRIDINIUM SAM AT GOLD ELECTRODE**
I. Kairytė, Z. Kuodis, A. Matijoška, O. Eicher-Lorka, G. Niaura
- P1-27 CONTROL OF THE OPTICAL PROPERTIES OF PYRROLOPYRIMIDINE DERIVATIVES BY POLAR GROUPS**
K. Kazlauskas, L. Skardžiūtė, A. Gruodis, J. Dodonova, S. Tumkevičius, S. Jursėnas

Nano-, Bio-systems

- P1-28 MULTIFUNCTIONAL NANOPARTICLES FOR TWO-PHOTON INDUCED PHOTODYNAMIC THERAPY**
Olivier Mongin, Cédric Rouxel, Youssef Mir, Mireille Blanchard-Desce, Céline Frochot, David Brevet, Laurence Raehm, Jean-Olivier Durand, Alain Morère, Magali Gary-Bobo, Marcel Garcia
- P1-29 SERS CHARACTERIZATION OF DECAPEPTIDE NEUROMEDIN B INTERACTION WITH SILVER, GOLD, COPPER ELECTRODES**
I. Ignatjev, G. Niaura, E. Proniewicz, L. M. Proniewicz
- P1-30 SENSORIC, BIOCATALYTIC PROPERTIES OF IMMOBILIZED PHENOLOXIDASES**
A. Chyla, J. Cabaj, E. Suska
- P1-31 INFLUENCE OF THE INTERFACE ON THE SOLID SURFACE COATINGS FORMED BY THE FIBRIL-LIKE ASSEMBLIES OF ALPHA-SYNUCLEIN**
V. Bukauskas, A. Šetkus, I. Šimkienė, S. Tumėnas, I. Kašalynas, A. Rėza, J. Babonas, V. Časaitė, S. Povilonienė, R. Meškys
- P1-32 MECHANISMS OF PROTON TRANSLOCATION, CATALYTIC REACTION IN NITRIC OXIDE REDUCTASE: COMPUTATIONAL STUDY**
A. Pisljakov
- P1-33 SYNERGISTIC CYTOTOXICITY OF VITAMINS C, K₃ COMPLEX DUE TO EFFICIENT INTERMOLECULAR TRANSFER OF ELECTRONS**
K. Šarka, N. Galikova, A. Gruodis, R. Saulė, D. Batiuškaitė, G. Saulis
- P1-34 LINEAR, NONLINEAR OPTICAL PROPERTIES OF DNA/RHODAMINE-SILICA THIN FILMS**
M. Pranaitis, M. Mihaly, A. Comanescu, M. Moldoveanu, I. Rau K. Iliopoulos, V. Kažukauskas, B. Sahraoui
- P1-35 EFFECT OF NANOSIZE METAL OVERLAYER ON C60 THIN FILM OPTICAL PARAMETERS NEAR FUNDAMENTAL ABSORPTION EDGE**
N. Dmitruk, O. Borkovskaya, D. Naumenko, T. Havrylenko, E. Basiuk, E. Shpilevsky
- P1-36 FORMATION OF AU-NANOPARTICLES IN LC PI DENDRIMERS**
M. Franckevicius, A. Kulbickas, R. Vaisnoras, N. Cheval, A. Fahmi, J. Babonas, I. Simkiene
- P1-37 STUDY OF BOVINE LEUKEMIA VIRUS ANTIGEN GROWTH KINETICS BY TOTAL INTERNAL REFLECTION ELLIPSOMETRY**
A. Ramanavičius, Z. Balevičius, A. Makaravičiūtė, I. Balevičiūtė, A. Ramanavičienė
- P1-38 *p*-PHENYLENEDIACETONITRILE NANOPARTICLES WITH FLUORESCENCE TURN-ON**
A. Miasojedovas, K. Kazlauskas, E. Arbaciauskienė, V. Getautis, A. Sackus, D. Dobrovolskas, G. Tamulaitis, S. Jursenas
- P1-39 STUDY OF RELAXATION AND SOLVATATION IN MOLECULAR SYSTEMS USING VIBRATIONAL AND 2D CORRELATION SPECTROSCOPY**
M. Pareigis, A. Drazdauskas, A. Gruodis, V. Aleksa
- P1-40 ULTRAFast DYNAMICS OF PHOTOCHROMIC SWITCHES BASED ON OXAZINE RING OPENING**
M. Vengris, L. Kontenis, K. Redekas, V. Martynaitis, A. Šačkus

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P1-41 THE PHOTOCHROMISM OF BENZOINDOLO-BENZOXAZINES
L. Kontenis, M. Vengris, V. Martynaitis, A. Šačkus

12 July
TUESDAY

18:00 – 20:00 POSTER SESSION II

Devices

- P2-01 POLYMER ELECTROPHOSPHORESCENT COMPOSITES FOR DEVICES WITH WHITE LIGHT EMISSION**
R. Grykien, I. Glowacki
- P2-02 ELECTRONIC, THERMAL PROPERTIES OF LOW BAND-GAP COPOLYMERS OF TRIARYLAMINE, NAPHTALENEDIIMIDE**
M. Krompiec, M. Grucela, E. Schab-Balcerzak
- P2-03 ULTRAFAST HOLE TRANSFER DYNAMICS IN POLYMER:FULLERENE BLENDS**
Almis Serbenta, Vlad G. Pavelyev, Jan C. Hummelen, Maxim S. Pshenichnikov, Paul H. M. van Loosdrecht
- P2-04 CHARGE TRANSFER FROM CONTACTS TO POLYMER/FULLERENE BLEND IN P3HT:PCBM DEVICES**
M. Nyman, R. Österbacka
- P2-05 EFFECT OF SUBSTITUTES TO PHTHALOCYANINE MOLECULES ON THE PROPERTIES OF THEIR FILMS, HETEROSTRUCTURES**
Ya.Vertsimakha, S. Mamykin, P.Lutsyk
- P2-06 EFFICIENT BILAYER ELECTRODES FOR PHOTSENSITIVE ORGANIC HETEROSTRUCTURE, SOLAR CELLS**
Ya.Vertsimakha, S. Mamykin, A. Pud
- P2-07 KINETIC STUDIES OF PHOTOSWITCHABLE GATE INSULATOR IN OFETS**
Petro Lutsyk, Krzysztof Janus, Juliusz Sworakowski
- P2-08 ELECTRICAL PROPERTIES OF P3HT:CDSE NANOCOMPOSITE**
U. Bielecka, P. Lutsyk, M. Nyk, K. Janus, M. Samoć, W. Bartkowiak, S. Nespurek, J. Sworakowski
- P2-09 ELECTRODES FOR GAOHPC:PCBM/P3HT:PCBM BULK HETEROJUNCTION SOLAR CELL.**
I.Kaulachs, I.Muzikante, L.Gerca, G.Shlihta, I.Tale, G.Rozite
- P2-10 ORGANIC FIELD EFFECT TRANSISTORS FABRICATED BY PLOTTER PRINTING, SPRAY DEPOSITION OF MATERIALS**
Petro Lutsyk, Marcin Sojka, Krzysztof Janus, Juliusz Sworakowski
- P2-11 LIGHT-HARVESTING, PHOTO-REGULATION IN MOLECULAR SYSTEMS BASED ON A HEXAPHENYLBENZENE FRAMEWORK**
G. Kodis, Y. Terazono, S. D. Straight, P. A. Liddell, T. A. Moore, A. L. Moore, D. Gust
- P2-12 ELECTRIC CURRENT FLOW THROUGH ORGANIC HETEROJUNCTION IN THE PRESENCE OF IMAGE FORCE**
Malgorzata Makowska, Jan Godlewski, Justyna Szostak, Ryszard Signerski
- P2-13 STUDY OF ELECTROCHEMICAL REDUCTION OF NO₂ WITH POROUS CARBON ELECTRODE IN ROOM TEMPERATURE IONIC LIQUIDS**
D. Rais, S. Nešpurek, S. Pochekailov, J. Reboun, A. Hamacek

Transport Phenomena

- P2-14 RESONANCE ENERGY TRANSFER IN CHARGE-TRANSFER DYES: THE ROLE OF DARK STATES IN AN ESSENTIAL-STATE PICTURE**
C. Sissa, A. K. Manna, F. Terenziani, S. K. Pati, A. Painelli
- P2-15 IMPACT OF THE GAUSSIAN DISTRIBUTION OF TRAPING STATES ON THERMALLY STIMULATED CURRENT SPECTRA IN MDMO-PV**
M. Pranaitis, V. Kažukauskas
- P2-16 OPTICAL, ELECTRICAL PROPERTIES OF NEW DIKETOPYRROLO-PYRROLES FOR ORGANIC ELECTRONICS**
M. Vala, M. Weiter, S. Luňák, J. Vyňuchal
- P2-17 ON SMALL SIGNAL CAPACITANCE SPECTRA OF ORGANIC PLANAR SYSTEMS**
G. Jarosz
- P2-18 PHOTOVOLTAIC PROPERTIES OF CdTe/PERYLENE DYE THIN FILM HETEROJUNCTION**
R. Signerski, G. Jarosz, J. Godlewski
- P2-19 ELECTRICAL CONDUCTIVITY, OPTICAL TRANSMITTANCE OF SINGLE-WALL CARBON NANOTUBES FILMS**
V. Ksenevich, M. Shuba, A. Paddubskaya, P. Kuzhir, S. Maksimenko, P. Buka, T. Veselova, G. Dovbeshko, O. Fesenko, O. Gnatyuk, K.Yakovkin
- P2-20 PHOTOGENERATION OF FREE CHARGE CARRIERS IN π -CONJUGATED POLYMERS WITH BULKY SIDE GROUPS**
M. Menšík, M. Jex, J. Pfleger, J.Jung
- P2-21 UNUSUAL FEATURES OF CHARGE CARRIER TRAPS ENERGY SPECTRA IN SILICON ORGANIC POLYMERS**
A.Gumenyuk, N. Ostapenko, O.Kerita, S.Suto
- P2-22 POLING OF EO POLYMERS - CORONA DISCHARGE PROCESS OPTIMIZATION.**
E. Nitišs, E. Titavs, M. Rutkis, O. Vilitis
- P2-23 STUDIES OF CHARGE CARRIER TRANSPORT IN THIN FILMS OF BAY SUBSTITUTED PERYLENE BISIMIDES**
K.Pudzis, I.Muzikante, M.Rutkis, J.V.Grazulevicius, R.Reghu



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- P2-24 NOOLANDI-HONG VERSUS ONSAGER MODELLING OF CHARGE PHOTOGENERATION IN ORGANIC SOLIDS**
K. Falkowski, W. Stampor, P. Grygiel, W. Tomaszewicz
- P2-25 THE CONTACTS, LAYER MORPHOLOGY INFLUENCE ON SHORT CIRCUIT CURRENT IN ORGANIC MATERIALS**
M. Obarowska, J. Godlewski
- P2-26 THEORETICAL INVESTIGATIONS OF CHARGE TRANSPORT PROPERTIES IN OLIGOTHIOPHENES**
M. M. Mikołajczyk, P. Toman, W. Bartkowiak
- P2-27 SPECTRAL DEPENDENCES OF PHOTOCURRENT IN POLYTHIOPHENE DOPED WITH SILVER NANOPARTICLES**
I. Szeremeta, M. Nyk, A. Chyla, M. Samoc
- P2-28 ON THE TRUE MEANING OF THE FLAT PLATEAUS ON THE TIME-OF-FLIGHT CURVES IN MOLECULARLY DOPED POLYMERS**
A. Tyutnev, R. Ikhsanov, V. Saenko, E. Pozhidaev
- P2-29 TRANSIENT CURRENTS ACROSS POLYMER THIN FILMS CONSISTING OF SINGLE, DUAL, TRIPLE LAYERS**
A. Tameev, A. Yusupov, A. Lachinov, A. Vannikov
- P2-30 INFLUENCE OF ENERGETIC, SPATIAL DISORDER ON THE YIELD OF GEMINATE-PAIR DISSOCIATION – A MONTE CARLO STUDY**
W. Tomaszewicz, W. Stampor, P. Grygiel
- P2-31 PHOTOELECTRICAL PROPERTIES OF THIN FILMS OF DMABI DERIVATIVES**
R. Grzibovskis, M. Indrikova, J. Latvels, I. Muzikante, B. Turovska, P.J. Pastors, V. Kampars
- P2-32 EXCITATION ENERGY TRANSFER, QUENCHING IN THE PHOTOSYNTHETIC MAJOR LIGHT-HARVESTING COMPLEXES**
I. Chmeliov, L. Valkūnas, G. Trinkūnas, C. D. P. Duffy, R. van Grondelle, A. V. Ruban
- P2-33 CHARGE CARRIER PHOTOGENERATION, RECOMBINATION IN POLYMER/FULLERENE BULK HETEROJUNCTION FILMS**
G. Sliauzys, V. Gulbinas, K. Arlauskas
- P2-34 HIGH MOBILITY HOLE TRANSPORTING DIPHENYLETHENYL SUBSTITUTED TRIPHENYLAMINES**
T. Malinauskas, G. Bubniene, M. Daskeviciene, V. Gaidelis, V. Jankauskas, G. Juska, K. Arlauskas, V. Getautis
- P2-35 PHYSICOCHEMICAL PROPERTIES OF A NEW PHOTOCHROMIC LIQUID CRYSTAL**
L. Mazur, K. Matczyszyn, S.-J. Yoon, S.Y. Park, J.-L. Fave, F. Mathevet, A.-J. Attias, M. Samoć
- P2-36 FROM ALLYLBITHIOPHENE TO NEW CONDUCTING POLYTHIOPHENES CONTAINING ISOXAZOLE MOIETIES**
M. Filapek, I. Grudzka, M. Krompiec, C. Pietraszuk, S. Krompiec, W. Danikiewicz

Excited States, Optical Nonlinearities

- P2-37 ROTAXANES – MATERIALS FOR ADVANCED POLYMER BLENDS: MULTICOLOUR ASE, ULTRA-BROAD OPTICAL GAIN**
M. M. Mroz, S. Brovelli, T. Virgili, G. Sforazzini, A. Paleari, H. L. Anderson, F. Cacialli, G. Lanzani
- P2-38 MODIFICATION OF CHITOSAN BY AZO MONOMERS VIA RAFT POLYMERIZATION**
Sebastian Zawalski, Ewelina Ortyl, Stanisław Kucharski
- P2-39 THE AMPLIFIED SPONTANEOUS EMISSION FROM POLYMERIC FILMS DOPED WITH 3-(1,1-DICYANOETHENYL)-1-PHENYL-4,5-DIHYDRO-1H-PYRAZOLE**
L. Sznitko, J. Mysliwiec, K. Parafiniuk, K. Palewska, A. Miniewicz, S. Bartkiewicz
- P2-40 THE DYNAMICS OF THE NO GROUP IN THE SOLID – CONSEQUENCES FOR ITS THERMODYNAMIC STABILITY, PROPERTIES**
G. M. Wójcik
- P2-41 SOLVENT EFFECTS ON TWO-PHOTON ABSORPTION SPECTRA OF ORGANIC COMPOUNDS**
M. Wielgus, J. Kurzawa, L. Mazur, J. Olesiak-Banska, J. Szeremeta, D. Wawrzynczyk, M. Samoc, W. Bartkowiak
- P2-42 QUANTUM-MECHANICAL INVESTIGATIONS OF DISSOCIATIVE IONIZATION OF THE METHIONINE MOLECULE**
I. Tamuliene, L.G. Romanova, V.S. Vukstich, R.V. Lutsiuk, A.V. Snegursky, M. L. Balevicius
- P2-43 COVALENTLY COUPLED MULTI-DMABI CHROMOPHORES: SYNTHESIS, LINEAR, NONLINEAR OPTICAL PROPERTIES**
J. Kreicberga, J. Sirotkina, V. Kampars, L. Mihailovs, M. Rutkis, A. Jurgis
- P2-44 LINEAR, NONLINEAR OPTICAL PROPERTIES OF BINUCLEAR RUTHENIUM (II) COORDINATION COMPLEX DNA PROBES**
P. Hańczyk, M. Samoć, P. Lincoln, B. Norden
- P2-45 MODELLING OF PHOTOCHROMIC PROPERTIES OF BENZOXAZINE COMPOUND BY MEANS OF QUANTUM CHEMICAL METHODS**
S. Toliautas, J. Šulskus, M. Mačernis, M. Vengris, L. Valkūnas
- P2-46 TEMPERATURE IMPACT ON PHOTOISOMERISATION OF CARBOXYL GROUP AZOBENZENE MOLECULES**
E. Laizane, D. Gustina, I. Muzikante, M. Narels
- P2-47 NONLINEAR OPTICAL PROPERTIES, HUMIDITY EFFECT IN BACTERIORHODOPSIN FILMS FOR HOLOGRAPHIC RECORDING**
E. Korchemskaya, N. Burykin, D. Stepanchikov, A. Savchuk, S. Balashov