

8th International Workshop “Organic Electronics of Highly-Correlated Molecular Systems”



Program

Suzdal, 2018

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Mendeleev Russian
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Sunday, 23rd of September

	Time
Registration	8 ³⁰ -9 ⁰⁰
Opening Ceremony	9 ⁰⁰ -9 ¹⁵

Session 1

Chaired by Prof. Kunio Awaga

Prof. Dieter Wöhrle <i>Universität Bremen, Institute of Organic and Macromolecular Chemistry, Germany</i> Phthalocyanines in organic electronics	9 ¹⁵ -10 ⁰⁰
Prof. Nagao Kobayashi <i>(Shinshu University, Japan)</i> Structurally or electronically intriguing phthalocyanines	10 ⁰⁰ -10 ³⁰
Dr. Dmitry Konarev <i>Institute of Problems of Chemical Physics RAS, Russia</i> Coordination complexes of metal phthalocyanines bearing functional ligands	10 ³⁰ -10 ⁵⁰

Coffee-break	10 ⁵⁰ -11 ²⁰
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Session 2

Chaired by Prof. Oskar Koifman

Prof. Tomas Torres <i>Autonoma University of Madrid, Spain</i> Phthalocyanines and related systems as components of photovoltaic and artificial photosynthetic systems	11 ²⁰ -12 ⁰⁰
Prof. Nadezhda Usol'tseva <i>Ivanovo State University, Russia</i> Self-organization peculiarities of A3B-type phthalocyanines with different electron-donating/withdrawing substituent ratio	12 ⁰⁰ -12 ²⁰

Group photo of the workshop participants	12 ²⁰ -12 ³⁰
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Lunch	12 ³⁰ -14 ⁰⁰
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Session 3

Chaired by Prof. Tomas Torres

Prof. Yulia Gorbunova

14⁰⁰-14³⁰

Frumkin Institute of Physical Chemistry and Electrochemistry RAS, Russia

Nonlinear optical materials based on conjugates of phthalocyanines with quantum dots and nanoparticles

Prof. Mikhail K. Islyaikin

14³⁰-14⁵⁰

Ivanovo State University of Chemistry and Technology, Russia

Synthesis of hemihexaphyrazines, self-organization on surface and selective deprotonation by STM method

Prof. Pavel Stuzhin

14⁵⁰-15¹⁰

Ivanovo State University of Chemical Technology, Russia

Phthalocyanine analogues with electron deficient contracted macrocycles

Dr. Georgy Pakhomov

15¹⁰-15²⁰

RAS Institute for Physics of Microstructures, Russia

Thin films of thiadiazolosubporphyrines: fabrication, properties and potential applications in electronic devices

Poster Session

15²⁰-16²⁰

Coffee-break

Session 4

Chaired by Prof. Hirofumi Yoshikawa

Prof. Mikhail Vener <i>Mendeleev University of Chemical Technology, Russia</i> Inhibiting Low-Frequency Vibrations Explains Exceptionally High Electron Mobility in 2,5-Difluoro-7,7,8,8-tetracyanoquinodimethane (F2-TCNQ) Single Crystals	16 ²⁰ -16 ⁴⁰
Prof. Georgiy Girichev <i>Ivanovo State University of Chemistry and Technology, Russia</i> Structure and Energetics of Binuclear Hexafluoracetylacetonate Complexes of Lanthanides and Potassium)	16 ⁴⁰ -17 ⁰⁰
Prof. Sergey Shlykov <i>Ivanovo State University of Chemistry and Technology, Russia</i> Conformations and Molecular Structures of Six-Membered Saturated Cycles: Episode IV	17 ⁰⁰ -17 ¹⁰
Dr. Yuriy Zhabanov <i>Ivanovo State University of Chemistry and Technology, Russia</i> The structure of off-centered Y, La, Lu-complexes of an ABABAB-type macroheterocycle by DFT method	17 ¹⁰ -17 ²⁰
Dr. Kiyonori Takahashi <i>Research Institute for Electronic Science, Hokkaido University, Japan</i> Molecular Rotation in Semiconducting [Ni(dmit) ₂] Salt of (3-fluoroadamantylammonium)(<i>trans-syn-trans</i> -dicyclohexano[18]crown-6)	17 ²⁰ -17 ³⁰
Prof. Tatyana Lomova <i>G. A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences, Russia</i> Quantitative description of the self-assembly via Axial Coordination in the metal porphyrin – pyridyl-substituted fulleropyrrolidine systems	17 ³⁰ -17 ⁴⁰
Welcome Party	19 ⁰⁰

Monday, 24th of September

Session 5

Chaired by Prof. Dieter Wöhrle

Prof. Kunio Awaga <i>Nagoya University, Japan</i> Fundamentals and Applications of Highly-Correlated Electron Systems, Formed by Organic Radicals	9 ⁰⁰ -9 ⁴⁰
Prof. Takayoshi Nakamura <i>Research Institute for Electronic Science, Hokkaido University, Japan</i> Crystalline Molecular Electronic Materials Based on the Supramolecular Structures of Heteroaromatic Cations and Large-Cavity Crown Ethers	9 ⁴⁰ -10 ⁰⁰
Prof. Oleg Rakitin <i>N.D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Russia</i> Fused chalcogen-nitrogen heterocycles: synthesis and application as photovoltaic materials	10 ⁰⁰ -10 ²⁰
Dr. Nikolai Semenov <i>Novosibirsk Institute of Organic Chemistry, Siberian Branch, Russian Academy of Sciences, Russia</i> Design, synthesis, structural and functional characterization of novel para- magnetics based on 1,2,5-chalcogenadiazolidyl radical-anions	10 ²⁰ -10 ⁴⁰
Coffee-break	10 ⁴⁰ -11 ¹⁰

Session 6

Chaired by Prof. Takayoshi Nakamura

Prof. Sergey Ponomarenko <i>Enikolopov Institute of Synthetic Polymeric Materials of Russian Academy of Sciences, Russia</i> Molecular self-doping in conjugated oligomers single crystals	11 ¹⁰ -11 ⁴⁰
Prof. Hirofumi Yoshikawa <i>Kwansei Gakuin University, Japan</i> Electron Storage Behavior of Organic Materials	11 ⁴⁰ -12 ⁰⁰
Dr. Yang Wu <i>Nagoya University, Japan</i> Conductive Polymer Modified Covalent Organic Framework: Polymerisation in Nanochannel and Increase in Electrical Conductivity	12 ⁰⁰ -12 ¹⁰
Dr. Seiya Yokokura <i>Nagoya University, Japan</i> AC photoelectric conversion cells driven by polarization of insulator layers	12 ¹⁰ -12 ²⁰
Lunch	12 ²⁰ -13 ³⁰

Session 7

Chaired by Prof. Nagao Kobayashi

Prof. Weihua Zhu <i>School of Chemistry and Chemical Engineering, Jiangsu University, China</i> Electrochemically Reductive Catalysis by Synthetic Metallo-Porphyrinoids	13 ³⁰ -13 ⁵⁰
Prof. Xu Liang <i>School of Chemistry and Chemical Engineering, Jiangsu University, China</i> Electrochemically Reductive Catalysis by Synthetic Metallo-Porphyrinoids	13 ⁵⁰ -14 ¹⁰
Dr. Kseniya Zhdanova <i>Moscow Technological University, Russia</i> Synthesis of functionalized meso-arylporphyrins for potential application in DSSC	14 ¹⁰ -14 ²⁰
Prof. Larisa Maiorova <i>Ivanovo State University of Chemistry and technology, Russia</i> Porphyrin nanostructures	14 ²⁰ -14 ³⁰
Mr. Ivan Skvortsov <i>Ivanovo State University of Chemistry and Technology, Russia</i> Synthesis and study of subporphyrazines fused with pyrazine fragments	14 ³⁰ -14 ⁴⁰
Dr. Yuriy Marfin <i>Ivanovo State University of Chemistry and Technology, Russia</i> BODIPY dyes in monomeric and aggregated forms as perspective optical converters	14 ⁴⁰ -14 ⁵⁰
Closing Ceremony	14 ⁵⁰ -15 ²⁰
Coffee-break	15 ²⁰ -16 ⁰⁰
Excursion "Suzdal"	16 ⁰⁰ -18 ³⁰
Conference Banquet	19 ⁰⁰

POSTER SESSION

- P-01 I.V. Baranovsky, L.S. Konstantinova, O.A. Rakitin**
Transformation of 4,4'-di(thien-2-yl)-5,5'-(1,2,3-dithiasolydene) into 3,6-di(5,5'-dibromothien-2-yl)isothiazolo[5,4-d]isothiazole – new potential building-block for photovoltaic materials
- P-02 P.S. Bocharov, A.A. Ksenofontov, E.V. Antina**
Investigation of the supramolecular interaction of BODIPY with bovine serum albumin
- P-03 E. Danilova, Y. Butina, L. Avramenko**
The synthesis of bis(5-amino-1,3,4-thiadiazole-2-yl)alkanes
- P-04 M.P. Donzello, E. Viola, C. Ercolani**
Synthesis, Structure, Physicochemical and Photophysical Properties of the widely studied Tetrakis-2,3-[5,6-di(2-pyridyl)pyrazino]porphyrazines
- P-05 I.Y. Dudkin, A.V. Borisov, I.N. Abrosimova**
Metallo-complexes of "sandwich" type, containing fragments of tetraanthraquinonoporphyrazine and of tetraphenyloxy(thio)phthalocyanine
- P-06 A. Ezhov, F. Vyal'ba, A. Zaytsev, K. Zhdanova, A. Zhdanov, A. Smirnova, N. Bragina**
Meso-substituted porphyrins as sensitizers for dye-sensitized solar cells
- P-07 Y. Filippova, E. Ivanov, M. Islyaikin**
Synthesis of Thiadiazole Annelated Hemihexaphyrazine
- P-08 N. Giricheva, G. Girichev, V. Slyznev, E. Morozova, A. Alikhanyan, I. Nikitin**
Structure of $\text{Co}_4\text{O}(\text{piv})_6$ molecule by gas-phase electron diffraction and DFT
- P-09 E. Ivanov, Y. Filippova, M. Islyaikin**
Synthesis of substituted hemihexaphyrazine based on 4-(2,6-diisopropylphenoxy)-5-chlorophthalonitrile
- P-10 A.N. Kiselev, D.S. Anisimov, A.S. Sizov, A.A. Trul, V.P. Chekusova, O.V. Borshchev, A.A. Vasiliev, E.V. Agina, S.A. Ponomarenko**
Gas sensing by monolayer OFETs with metal-containing porphyrins receptor layers
- P-11 O.I. Koifman**
New functional materials on the base of macroheterocycles compounds

- P-12 V. Kotova, K. Korolkova, O. Pimenov, N. Belova**
The molecular structure of terbium and neodymium pyrazolonate complexes by DFT method
- P-13 U. Kovkova, I. Skvortsov, O. Razgonyaev, P. Stuzhin**
Synthesis and Acid-Base Properties of Perhalogenated Azaanalogues of Subphthalocyanine
- P-14 K. Ksenofontova, E. Rumyantsev**
Synthesis and Spectral Properties Study of Lysine-BODIPY Conjugates
- P-15 T. Kudayarova, E. Rogova, Y. Piteva**
Investigation of applied properties 1N-alkyl-3,5-diamino-1,2,4-triazoles for creation of perspective organic materials with forecasted characteristics
- P-16 A. Kuznetsova, A. Razryadov, M. Islyaikin**
Microwave-assisted synthesis of dicarbahemiporphyrazines based on 4-methoxy- and 4-ethoxyethoxyphthalonitriles
- P-17 A. Kuznetsova, M. Islyaikin**
Microwave-assisted synthesis of tetrapyrazinoporphyrazines containing camphor groups
- P-18 A. Larionov, A. Kiselev, A. Balmasov, O. Golubchikov**
Electrical deposition of silver coating from electrolytes containing 5-(4-aminophenyl)-10,15,20-(4'-sulphophenyl)porphine and study of its adsorption capability
- P-19 S. Makarov, D. Wöhrle, G. Schnurpfeil, O. Suvorova, S. Ketkov**
Oligomeric phthalocyanine zinc(II) complexes as model compounds for polymeric phthalocyanines
- P-20 A.A. Maksimova, N.M. Berezina**
Synthesis, electrochemical properties and temperature stability 5,10,15,20 – tetrakis(1'-methyl-pyrid-4- and 3-yl) porphine Ts_4^- and I_4^-
- P-21 E. Maylovskaya, G. Berezina**
Synthesis and spectral properties of water-soluble macroheterocyclic compounds based on periacenaphthcyclohexanedione
- P-22 A.P. Merlyan, V.V. Veretennikov, A.A. Otlyotov, Y.A. Zhabanov**
Molecular structure of a thiadiazole-containing expanded heteroazaporphyrinoid

- P-23 M.S. Mikhailov, N.S. Gudim, E.A. Knyazeva, N. Robertson, L. Zhang, L.V. Mikhailchenko, V.V. Popov, O.A. Rakitin**
9-(*p*-Tolyl)-2,3,4,4a,9,9a-hexahydro-1*H*-carbazole – a new donor building-block in the design of sensitizers for dye-sensitized solar cells
- P-24 K. Mochalina, T. Kudayarova, E. Danilova**
Biological activity of 3,5-diamino-1,2,4-triazole and its metal complexes
- P-25 E.V. Motorina, T.N. Lomova, E.Yu. Tyulyaeva**
Reactions of niobium(V) porphyrin with pyridine as a self-assembly model towards metal porphyrin - pyridyl-substituted fullerene systems
- P-26 I. Nikitin, I. Skvortsov, P. Stuzhin**
Synthesis and characterization of boron(III) hexaazasubphthalocyanines
- P-27 E. Ovchenkova, N. Bichan, T. Lomova**
Controlling self-assembly of porphyrin/phthalocyanine – fullerenes with photoinduced electron transfer
- P-28 N. Popov, A. Smirnova, N. Usol'tseva, P. Popov**
Liquid crystal sensing of surface active substances in aqueous solutions
- P-29 A.A. Popov, P.A. Stuzhin**
Spectral-luminescent of tetrakis(1,2,5-thiadiazolo)porphyrazine and its Zn- and Li-complexes in dimethylsulfoxide solutions
- P-30 K.M. Soldatova, N.I. Giricheva**
Influence of substituents on the electronic absorption spectrum of porphyrin derivatives A3B-type
- P-31 V. Travkin, A. Fedoseev, G. Pakhomov, A. Koptyaev, M. Khamdoush, P. Stuzhin**
Thiadiazolosubporphyrazines: sublimation behavior and absorption spectra

