





2nd INTERNATIONAL SYMPOSIUM

"NONCOVALENT INTERACTIONS IN SYNTHESIS, CATALYSIS, AND CRYSTAL ENGINEERING" (NCI-2022)

Moscow, 14-16 November 2022

PROGRAM

TECHNICAL SUPPORT



In the framework of the Russian Academy of Sciences initiative "Towards the 300th anniversary of the Russian Academy of Sciences"

ORGANIZERS

A.N. Nesmeyanov Institute of Organoelement Compounds RAS
Institute of Chemistry, Saint Petersburg State University
Tomsk Polytechnic University

N.S. Kurnakov Institute of General and Inorganic Chemistry RAS

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Monday, November 14

	Main hall, Chair Elena Shubina
10:00	OPENING CEREMONY
10:15-10:55	PL1 Valentine Ananikov Hierarchical structure of catalytic systems studied with artificial intelligence algorithms
10:55-11:25	KL1 Alexey Timoshkin Donor-acceptor origin of Noncovalent Interactions
11:25-11:55	COFFEE BREAK
	Parallel sessions Main hall, Chair Alexey Timoshkin
11:55-12:15	IL1 Alexander Martynov Structure, optical and magnetic properties of sandwich lanthanide phthalocyaninates as a function of solvation
12:15-12:35	IL3 Sergey Ketkov The role of non-covalent interactions in the stability and spectroscopic properties of organoelement compounds: From phenylated pnictogen derivatives to sandwich complexes of 3d metals
12:35-12:50	OC1 Andrei Churakov Peroxosolvates of biologically active compounds
12:50-13:05	OC3 Pavel Petunin Stable radicals as tectones in design of magnetic materials
13:05-13:15	SC1 Matvey Shurikov Noncovalent interactions as the driving force for building of molecular magnets based on nitronyl-nitroxide radicals
13:15-13:25	SC3 Marina Volostnykh Supramolecular Hybrids Based on Ru(II) Porphyrin and Isonicotinate end-Decorated Octahedral Mo(II) Iodide Cluster
13:25-13:35	SC5 Leila Zargarova Noncovalent interactions in fluorinated bis(benzofuro) benzenes and their influence on the physical properties

	Library, Chair Sergey Konchenko	
11:55-12:15	IL2 Elena Grachova Non-covalent interactions in the design of luminophores based on transition metal complexes	
12:15-12:35	IL4 Pavel Panchenko Novel fluorescent chemosensors for the detection of metal ions in aqueous solutions and in living cells	
12:35-12:50	OC2 Ivan Fedyanin Supramolecular organization and electronic structure of 4H [1,2,3]Triazolo[4,5-c][1,2,5]oxadiazole 5-oxide and its salts	
12:50-13:05	OC4 Nikolay Semenov 1,2,5-chalcogenadiazoles – donors of chalcogen bonding for molecular recognition and sensorics	
13:05-13:15	SC2 Anna Shchukina Study of the complexing properties of ligands with picolinate chelating groups	
13:15-13:25	SC4 Sergey Kovalenko Tricarbonyl manganese(I) hydrides as donors of proton or hydride ion	
13:25-13:35	SC6 Alsu Nugmanova Self-Assembly of Hybrid Photocatalysts Based on Porphyrin SURMOFs and Graphene Oxide	
13:35-15:00	LUNCH	
	Main hall, Chair Petr Tolstoy	
15:00-15:30	KL2 Julia Kostina Non-covalent interactions polymer-solvent: from a "small nuisance" to structural-molecular plasticization	
15:30-16:00	KL3 Andrey Karasik Molecular Recognition via Chemo- and Biosensing of Novel Luminescent Complexes Based on Cyclic Phosphines	
16:00-16:30	KL4 Pavel Abramov Self-assembly patterns of non-metalloid silver thiolates	
16:30-17:00	COFFEE BREAK	

	Parallel sessions		
	Main hall, Chair Andrey Karasik		
17:00-17:15	OC5 Maksim Shmelev Influence of noncovalent interactions on the structure and luminescent properties of Cd(II) and Ln(III) fluorobenzoate complexes.		
17:15-17:30	OC7 Dmitry Lyubov The first examples of acetylene complexes of Ca and Ln(II) based on 1,8-bis(ethynyl)carbazoles		
17:30-17:40	SC7 Maksim Sokolov Self-assembly of porphyrin-based metal-organic framework in layered europium hydroxide: a symbimetic hybrid material		
17:40-17:50	SC9 Grigory Zhigulin Noncovalent interactions in the aminohydroximate metallamacrocycles bearing alkali and rare earth ions		
17:50-18:00	SC11 Anton Rozhkov Non-covalent interactions of cyclometallted diketonate platinum(II) complexes with anticrown		
	Library, Chair Pavel Abramov		
17:00-17:15	OC6 Ruslan Asfin Self-association of Dimethylarsinic Acid: Optical, NMR, and Calculation Study of Solid State and Solutions		
17:15-17:30	OC8 Elena Tupikina Non-covalent interactions in the active center of the antioxidant enzyme glutathione peroxidase		
17:30-17:40	SC8 Aleksandra Puzyk Structure of hydrogen-bonded complexes of compounds containing As=O group		
17:40-17:50	SC10 Mger Navasardyan Hydrazinosolvates: unusual isomorphism and isomorphous substitution		
17:50-18:00	SC12 Mikhail Kostin Estimation of the strength and geometry of hydrogen bonds in complexes with phosphine oxides by IR and NMR spectroscopy		
18:00-20:00	Welcome reception		

Tuesday, November 15

	Main hall, Chair Oleg Filippov	
10:00-10:30		
10:30-11:00	KL6 Maria Kalinina Noncovalent self-assembly of supramolecular hybrids	
11:00-11:40	PL2 Jean-Pierre Djukic (remote lecture) Correlation of Noncovalent Interactions with Reactivity, a «Game Changer» for Catalyst Enginering?	
11:40-12:10	COFFEE BREAK	
	Parallel sessions Main hall, Chair Sergey Adonin	
12:10-12:40	KL7 Leyong Wang (remote lecture) The Orthogonal Self-Assembly of Supramolecular Materials	
12:40-13:00	IL5 Dmitrii Bolotin Homogeneous Organocatalysis Provided by the σ-Hole Donors	
13:00-13:20	IL7 Vladimir Larionov Chiral Non-Classical Metal-Templated Hydrogen Bond Donor Catalysts	
13:20-13:35	OC9 Olga Syzgantseva Theoretical insights on non-covalent interactions in functional materials	
	Parallel sessions Library, Chair Maria Kalinina	
12:40-13:00	IL6 Sergey Konchenko Functionalised Chalcogenadiazoles and their Coordination Compounds: Intermolecular Contacts in the Crystals	
13:00-13:20	IL8 Daniil Ivanov Metal iodide as I-centered Lewis acid	

13:20-13:35	OC10 Alina Sonina Crystal Structure Control of Perylene Single Crystals by Additive-Assisted Crystallization
13:35-15:00	LUNCH
	Main hall, Chair Petr Prikhodchenko
15:00-15:40	PL3 Igor Alabugin (remote lecture) Non-Covalent Interactions with Neutral Radicals: Control of Selectivity of Bond Formation and Bond Breaking in Radical Cyclization/Fragmentation Cascades of Alkynes
15:40-16:10	FLASH POSTER PRESENTATIONS
	FP1 Aleksandra Antonova Structure and properties of hydrazide-chelate of the Hoveyda-Grubbs type catalysts
	FP2 Sergey Baykov Stacking interactions: a supramolecular approach to upgrade weak halogen bond donors
	FP3 Vladimir Burmistrov Synthesis of supramolecular complexes of beta- cyclodextrin with adamantane ureas - new series of encapsulated soluble epoxide hydrolase inhibitors
	FP4 Ekaterina Radiush Chalcogen-bonded donor–acceptor complexes of 1,2,5-selenadiazoles with halide ions
	FP5 Daria SedIova Characterization of novel bimetallic complexes (^{tBu} PXCYP)Pd(μ-OC)M(CO) ₂ L and their reactivity toward HCOOH
	FP6 Gleb Taranenko Alkoxide ligand environment for stabilization of reactive complexes of rare- and alkaline-earth metals
	FP7 Hamza Zakaria Alkali metal complexes with 1,8-bis(ethynyl)carbazolyl ligands
16:10-16:40	COFFEE BREAK

Parallel sessions Main hall, Chair Vladimir Larionov		
16:40-16:55 OC11 Aleksandra Zvyagina One-Step Self-assembly of Graphene Oxide and Organic Chromophores into Multicomponent ultrathin films for Organic Electronics 16:55-17:10 OC13 Alexander Voronin Application of lattice sums of non-covalent interaction energies in pharmaceutical crystal engineering 17:10-17:20 SC13 Alexander Volodin Various Approaches to Studying the Phase Transition in an Octamethylcyclotetrasiloxane Crystal: From X-Ray Structural Analysis to Metadynamics 17:20-17:30 SC15 Roman Guliaev Preparation of PET@UiO-66 Functional Materials for Selective Binding of Chlorobenzenes Via Halogen Bonding: From Design to Application 17:30-17:40 SC17 Edem Chakalov The distance between minima of electron density and electrostatic potential as a measure of halogen bond strength 17:40-17:50 SC19 Natalia Kulikovskaya Electrophoretic NMR is a tool for studying ionic compounds Library, Chair Pavel Panchenko 16:40-16:55 OC12 Svetlana Kuznetsova Three-dimensional Crystalline Organic Framework Linked by Hydrogen bonds and Additionally Stabilized by the Opposite Charges of the Components as Heterogeneous Acid Catalyst and a Media Stabilizing Metal Nanoparticles 16:55-17:05 SC23 Alena Naumova Plasmon resonance-enhanced absorption of visible light		Parallel sessions
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17:10-17:20	SC14 Maria Ustimova Noncovalent DNA/RNA labeling with asymmetric bis(styryl) dyes	
17:20-17:30	SC16 Alina Saifutiarova Study of the interaction of benzo[d]thiazolo[3,2-a] quinolin-10-ium derivatives with DNA and antitumor activity in vitro	
17:30-17:40	SC18 Anastasiya Eliseeva Metal-involving Noncovalent Interactions in Dithiocarbamate and Dithiocarbonate Pt(II) and Pd(II) Complexes	
17:40-17:50	SC20 Evgeniia Ondar Hydrosilylation reaction catalyzed by platinum on carbon support: heterogeneous or dynamic?	
17:50	Poster session	

Wednesday, November 16

	Main hall, Chair Pavel Postnikov	
10:00-10:40	PL4 Giuseppe Resnati	
	Anion···anion Self-assembly via unconventional interactions	
10:40-11:20	KL8 Ekaterina Bartashevich	
10.40-11.20	Can we merge the covalent and tetrel bonds (TtB)?	
11:20-11:40	` '	
11.20-11.40	KL9 Olga Kataeva Noncovalent Interactions in Crystal Engineering of	
	Charge-transfer Complexes of Polyaromatic Donors	
	and Quinone-type Acceptors	
11:40-12:10	COFFEE BREAK	
	Parallel sessions	
	Main hall, Chair Ekaterina Bartashevich	
12:10-12:40 KL10 Di Sun (remote lecture)		
	Silver Nanoclusters	
12:40-13:00 IL9 Mikhail Kinzhalov		
	Metal-Involving Noncovalent Interaction in Palladium(II)	
	and Platinum(II) Isocyanide Complexes	
13:00-13:20	IL11 Petr Prikhodchenko	
	Structure-directing Role of Hydrogen Bonds of	
	Hydroperoxo Groups in Crystalline Adducts of Organic	
	and Inorganic Hydroperoxides	
13:20-13:35	OC15 Alexander Goloveshkin	
	Noncovalent interaction-driven stabilization of	
	octahedral coordination in molybdenum disulfide	
	sheets alternating with organic interlayers	
10.10.10.00	Library, Chair Olga Kataeva	
12:40-13:00	IL10 Maxim Sokolov	
	Phosphorescent complexes of {Mo ₆ I ₈ } ⁴⁺ and {W ₆ I ₈ } ⁴⁺	
	with perfluorinated aryl thiolates featuring unusual molecular structures	
10.00 10.00		
13:00-13:20	IL12 Aleksei Trofimov	
	Photonics in Superbasic Environment	

13:20-13:35 OC16 Marina Gorshkova New self-cross-linkable hydrogels based on natural and synthetic polyacids. 13:35-15:00 LUNCH Main hall, Chair Sergey Ketkov 15:00-15:20 IL13 Natalia Soldatova Diaryliodonium sulfonates as tecton for crystal engineering 15:20-15:35 OC17 Anna Vologzhanina Voronoi molecular surface for analysis of noncovalent interactions 15:35-15:50 OC19 Mikhail Vener Calculations of the energy of non-covalent interactions in organic crystals. Comparison of periodic and non-periodic models 15:50-16:05 OC21 Ivan Ananyev Inhomogeneity of electron density in a central potential: more insights into the localization phenomenon 16:05-16:20 OC23 Alexander Medvedev Noncovalent interactions in crystalline hydroperoxo complexes of p-block elements 16:20-16:30 SC21 Anastasia Danshina Crystallization cocktails for X-ray diffraction analysis of liquids Library, Chair Mikhail Kinzhalov 15:00-15:20 IL14 Aleksei Titov Role of Intermolecular Interactions in the Chemistry of Cyclic d¹º Metal Pyrazolates 15:20-15:35 OC18 Anastasia Solomatina Aggregation-induced emission of non-symmetric C^N*N*C-cyclometallated platinum(II) complexes 15:35-15:50 OC20 Alexander Antonov Steric Effects in The Synthesis, Structure and Reactivity of Lithioanilines		
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	15:35-15:50	Steric Effects in The Synthesis, Structure and

15:50-16:05	OC22 Elena Osipova Bimetallic ionic pairs (^{tBu} PXCYP)Pd(μ-OC)M(CO) ₂ L in catalytic dehydrogenation
16:05-16:20	OC24 Lev Zelenkov The case of cocrystals of group 10 metal dithiocarbamates with electrondeficient arenes: the first example of Ni(II) reverse sandwich structure
16:20-16:30	SC22 Roman Pankov Study of the effect of the electron-withdrawing substituents on the catalytic capabilities of Pd/NHC complexes
16:30-17:00	COFFEE BREAK
	Main hall Chair Natalia Belkova
17:00-17:30	KL11 Oleg Filippov The intriguing world of noncovalent interactions
17:30-18:00	KL12 Petr Tolstoy NMR study of hydrogen and halogen bonds with P=O and POOH groups
18:00	Closing ceremony

	POSTER SESSION		
FP1	Aleksandra Antonova	Structure and properties of hydrazide-chelate of the Hoveyda-Grubbs type catalysts	
FP2	Sergey Baykov	Stacking interactions: a supramolecular approach to upgrade weak halogen bond donors	
FP3	Vladimir Burmistrov	Synthesis of supramolecular complexes of beta-cyclodextrin with adamantane ureas - new series of encapsulated soluble epoxide hydrolase inhibitors	
FP4	Ekaterina Radiush	Chalcogen-bonded donor–acceptor complexes of 1,2,5-selenadiazoles with halide ions	
FP5	Daria Sedlova	Characterization of novel bimetallic complexes $(^{lBu}PXCYP)Pd(\mu-OC)M(CO)_2L$ and their reactivity toward HCOOH	
FP6	Gleb Taranenko	Alkoxide ligand environment for stabilization of reactive complexes of rare- and alkaline-earth metals	
FP7	Hamza Zakaria	Alkali metal complexes with 1,8-bis(ethynyl) carbazolyl ligands	
P8	Ruslan Asfin	Application of the Morse Approximation for the Study of Noncovalent Interactions	
P9	Gleb Averochkin	Bioderived C ₆ furanics in cycloaddition reactions	
P10	Anna Cheranyova	Tin(IV) iodide as a halogen bond donor	
P11	Anton Fedonin	Molecular interactions in racemic and enantiopure thioureas	
P12	Grigory Chernov	Nucleophilic Ring Openining of Donor-Acceptor Cyclopropanes Catalyzed by Iodonium Salts	
P13	Veronika Gak	Diaryliodonium iodides and polyiodides	
P14	Anna Efimova	Styryl dyes for noncovalent labeling	
P15	Darya Gerasimova	Relationship between the configuration lability of nitrogen and sulfur atoms of sulfonamides of the thiazine series during the formation of crystal-forming motifs	
P16	Eugene Katlenok	Supramolecular Assembly Of Binuclear Metal Complexes Via Metal-Involving Chalcogen Bonds	

Sergei Legkov	Study of the structural features of aqueous solutions of monoethpnolamine of various compositions by experimental and theoretical methods of vibrational spectroscopy
Olga Lodochnikova	Forming Stereochemically Challenging Z'>1 Motifs in Organic Crystals through Various Non- Covalent Interactions
Darina Nasyrova	Short contacts in nitroxide radicals' crystals with adamantyl and perfluorophenyl substituents
Ekaterina Patil	Quantification of Pd/NHC evolution products in the Heck, Sonogashira, and transfer hydrogenation reactions
Pavel Pirozhkov	Analysis of Noncovalent Interactions in the Polymorphic Structures of N-(3-Chloro-2-methylphenyl)anthranilic Acid
Liliya Sahharova	Re-thinking the Role of Dimeric Species in Catalysis
Irina Sterkhova	Noncovalent Interactions in New Derivatives of Triflamide
Ruslan Shaydullin	XAS study of palladium catalyst changes in the Heck reaction
Polina Verbitskaya	Crystal Structure Control of Organic π-Conjugated molecules by Additive-Assisted Crystallization
Anna Vorobyova	Crystal engineering and magnetic properties of coordination polymers based on transition metal nitrate complexes with singly charged cations
Julia Voronina	Non-covalent interactions in organic precursors as a driving factor of coordination compounds structure
Dmitriy Zakharychev	Stable reproducibility of a stereochemically complex three-dimensional motif of hydrogen bonds in various crystalline forms of 15-en-steviol and dihydrosteviol
Daria Zapravdina	Application of Zn carboxylates in the synthesis of symmetrical nitrogen-containing derivatives of camphor
	Colga Lodochnikova Darina Nasyrova Ekaterina Patil Pavel Pirozhkov Liliya Sahharova Irina Sterkhova Ruslan Shaydullin Polina Verbitskaya Anna Vorobyova Julia Voronina Dmitriy Zakharychev Daria

