

**"Advances of Synthesis and Complexing" - 2019**  
**PLENARY LECTURES and Section of Physical and Colloidal Chemistry**  
**(Ordzhonikidze st., 3, Faculty of Science)**

**Monday, 22 April 2019**

Time	Lecturer	Title
<b>(Miklukho-Maklaya str.6 , Main building)</b>		
12.00-15.00	Registration	
15.00-15.10	Conference Opening ( <b>Assembly Hall</b> )	
15.10-16.10	<i>PL-1</i> <i>J.-P. Sauvage</i> <i>(University of Strasbourg, France)</i>	From Chemical Topology to Molecular Machines
16.10-17.00	<i>PL-2</i> <i>B. List</i> <i>(Max Planck Institut fur Kohlenforschung,</i> <i>Germany)</i>	Very Strong and Confined Acids Enable a General Approach to Asymmetric Lewis Acid Catalysis
16.10-17.00	COFEE BREAK	
17.00-18.00	<i>PL-3</i> <i>V. Ananikov</i> <i>(N.D. Zelinsky Institute of Organic</i> <i>Chemistry, Russia)</i>	Dynamic catalytic systems for organic synthesis and sustainable development
19.00	Dinner for Invited Speakers	

**Tuesday, 23 April 2019**

<b>Time</b>	<b>Lecturer</b>	<b>Title</b>
<b>Hall 2</b>		
9.00-10.00	<i>PL-4</i> <i>V. Gevorgyan</i> <i>(University of Illinois at Chicago, USA)</i>	Development of Novel C–H Functionalization Methodologies
10.00-11.00	<i>PL-5</i> <i>M. Rueping</i> <i>(King Abdullah University of Science and Technology, Saudi Arabia)</i>	New Developments in Nickel Catalysis
11.00-11.40	COFEE BREAK	
<b>Chair - Prof. A. Terent'ev (room 102)</b>		
11.40-11.50	<i>A. Cherednichenko</i> <i>(RUDN University)</i>	
11.50-12.30	<i>KN-1</i> <i>A. Terent'ev</i> <i>(N.D. Zelinsky Institute of Organic Chemistry RAS)</i>	Cyclic peroxides as a base for antiparasitic and anticancer drugs
12.30-13.10	<i>KN-2</i> <i>V. Cortés</i> <i>(Institute of Catalysis and Petrochemistry)</i>	Green catalytic synthesis of aliphatic aldehydes and esters
13.10-14.00	<i>KN-3</i> <i>V. Kogan</i> <i>(N.D. Zelinsky Institute of Organic Chemistry RAS)</i>	Interlayer dynamics of the active sites of transition metal sulfide-based catalysts and the mechanisms of hydrodesulfurization of oil fractions and synthesis gas conversion into higher alcohols and other oxygenates
14.00-15.00	LUNCH	
<b>Chair - Prof. V. Kogan (room 102)</b>		
15.00-15.20	<i>OR-1</i> <i>S. Gorbunov</i> <i>(IMET)</i>	Hydrogen desorption from activated Palladium-Yttrium foil
15.20-15.40	<i>OR-2</i> <i>V. Tuguldurova</i> <i>(Tomsk State University)</i>	Condensation of glyoxal with ammonia in aqueous solution: A DFT study
15.40-16.00	<i>OR-3</i> <i>S. Gorbacheva</i> <i>(A.V. Topchiev Institute of Petrochemical Synthesis)</i>	Novel highly ordered liquid crystals resulting from the complexation of alkyl- and alkoxybenzoic acids
16.00-16.20	<i>OR-4</i> <i>D. Kayumova</i> <i>(IGIC RAS)</i>	A mass spectrometric study of the Cadmium Pivalate Phenanthroline Complex

16.20-16.40	<i>OR-5</i> <i>N. Gelfand</i> <i>(Far Eastern Federal University)</i>	Spectral features of difluoroboron $\beta$ -diketonates with aromatic substituents: an analysis based on DFT and TD-DFT calculations
16.40-17.00	<i>OR-6</i> <i>A. Kholodkova</i> <i>(Lomonosov MSU)</i>	Formation and growth of barium titanate nanocrystals in water vapor
11.00-18.00	<b>Poster Session (PhysChem+InorgChem)</b>	
18.00-21.00	<b>Banquet</b>	

Wednesday, 24 April 2019

Time	Lecturer	Title
<b>Chair – Dr. A. Cherednichenko (room 102)</b>		
10.00-10.40	<i>KN-4</i> A. Cherednichenko (RUDN University)	Materials for organic light emitting devices: synthesis and application
10.40-11.00	<i>OR-7</i> T. Vagramyan (Mendeleev University of Chemical Technology of Russia)	Protective conversion titanium-oxide nanocoatings on Iron and Non-ferrous Metals
11.00-11.30	COFEE BREAK	
<b>Chair – Dr. A. Cherednichenko (room 102)</b>		
11.30-12.10	<i>KN-5</i> E. Miroshnichenko (N.N.Semenov Institute of Chemical Physics RAS)	Thermochemistry of polyazidocontaining compounds. Enthalpies of formation and reorganizatoin of azoradicals
12.10-12.30	<i>OR-8</i> R. Gorshkova (Institute of Macromolecular Compounds)	Metal and toxin-binding ability of pectin polysaccharides obtained by the method of combined fractionation
12.30-12.50	<i>OR-9</i> Z. Murga (RUDN University)	Nanocarbon formation in dry reforming of methane over supported Ni
12.50-13.10	<i>OR-10</i> V. Tkachenko (Lomonosov MSU)	Synthesis, Structural Organization of Ruthenium Complex $\text{Li}_8\text{Ru}_2\text{OCl}_{14}$ and Its Catalytic Properties in the Water Oxidation Reaction
13.10-13.30	<i>OR-11</i> L. Pashchenko (Lomonosov MSU)	Thermochemical study of some perfluorocompounds
13.30-14.30	LUNCH	
<b>Chair – Dr. A. Cherednichenko (room 102)</b>		
14.30-14.50	<i>OR-12</i> E. Romanenko (RUDN University)	Effect of high-frequency hydrogen and argon plasma treatment on the microstructure of NASICON type catalysts
14.50-15.10	<i>OR-13</i> V. Osipova (Postovsky Institute of Organic Synthesis Ural Branch)	Functionalization of halloysite by aminoalkoxysilanes
15.10-15.30	<i>OR-14</i> I. Hayrullina (RUDN University)	The influence of hydrothermal synthesis temperature on luminescence changing of sensitive element of biosensor based on ZnO films under the action of DNA

15.30-15.45	<i>OR-15</i> <i>E. Kasatkin</i> <i>(RUDN University)</i>	Adsorption of benzene onto activated carbon AR-A and onto activated carbons of the Baojun Activated Carbon Co
15.45-16.00	<i>OR-16</i> <i>S. Kovtun</i> <i>(RUDN University)</i>	The study of the catalytic activity of nanocrystalline powders of gadolinium complex oxides
11.00-18.00	<b>Poster Session (PhysChem+InorgChem)</b>	
21.00	<b>Moscow Sightseeing Night Tour</b>	

Thursday, 25 April 2019

Time	Lecturer	Title
<b>Hall 2</b>		
9.00-10.00	<i>PL-6</i> <i>R. Tenne</i> <i>(Weizmann Institute of Science, Israel)</i>	Inorganic Nanotubes and Fullerene-like Nanoparticles
10.00-11.00	<i>PL-7</i> <i>F. D. Toste</i> <i>(University of California, Berkley, USA)</i>	
11.00-11.40	COFEE BREAK	
<b>Chair - Dr. V. C. Cortés (room 102)</b>		
11.40-12.20	<i>KN-6</i> <i>F. Rossner</i> <i>(Carl von Ossietzky University Oldenburg)</i>	Heterogeneously catalysed acylation of aromatics
12.20-13.00	<i>KN-7</i> <i>V. Matveeva</i> <i>(Tver State Technical University)</i>	Nanocatalysts Based on Metal/Hypercrosslinked Polystyrene Composites
13.00-13.40	<i>KN-3</i> <i>I. Mikhaleenko</i> <i>(RUDN University)</i>	NASICON type catalysts $\text{Na}(\text{Cs})_{1-2x}\text{M}_x\text{Zr}_2(\text{PO}_4)_3$ for aliphatic alcohols` vapor-phase conversions
13.40-14.00	<i>OR-17</i> <i>M. Einemann</i> <i>(Carl von Ossietzky University Oldenburg)</i>	Influence of promoters and reaction conditions on the iron based Fischer-Tropsch synthesis
14.00-15.00	LUNCH	
<b>Chair - Dr. F. Rossner (room 102)</b>		
15.00-15.20	<i>OR-18</i> <i>A. Stepacheva</i> <i>(Tver State Technical University)</i>	Fine nanoparticle deposition on the porous supports using subcritical water
15.20-15.40	<i>OR-19</i> <i>S. Chuklina</i> <i>(RUDN University)</i>	Dehydration of ethanol on ZSM-5 zeolites modified with nanodispersed titanium dioxide
15.40-16.00	<i>OR-20</i> <i>A. Damps</i> <i>(Carl von Ossietzky University Oldenburg)</i>	Encapsulated Pt-particles for poison-resistant catalysis
16.00-17.00	<b>Road to the boat trip</b>	
17.00-21.00	<b>Boat trip with banquet</b>	

Friday, 26 April 2019

Time	Lecturer	Title
<b>Hall 2</b>		
9.00-10.00	PL-9 S. Hashmi (Heidelberg University, Germany)	Gold Catalysis: A Highly Versatile Tool for Synthesis
<b>Chair – Prof. I. Mikhaleenko (room 102)</b>		
10.00-10.20	OR-21 V. Molchanov (Tver State Technical University)	Analysis of Amino Acid Synthesis Kinetic in Organic Raw Materials Bioconversion
10.20-10.40	OR-22 I. Flyagina (A.N. Frumkin Institute of Physical Chemistry and Electrochemistry)	Quantum-chemical simulation of the adsorption induced reduction of strength of siloxane bonds
10.40-11.00	OR-23 M. Osman (RUDN University)	Methods for the Improvement of Physicochemical Parameters of Petrodiesel and Jatropa curcas L Biodiesel Using Eco-friendly Materials and Gamma Radiation
14.00-15.00	COFEE BREAK	
<b>Chair – Prof. I. Mikhaleenko (room 102)</b>		
11.40-12.00	OR-24 A. Shulga (RUDN University)	Optical properties of cerium doped zinc oxide nanoparticles synthesized on molybdenum surface
12.00-12.20	OR-25 A. Medvedeva (Photochemistry Center RAS) B.	Study of influence solid phase formation of silica gel on the optical properties of 4 - DASPI
12.20-12.40	OR-26 S. Maslenkova (RUDN University)	Influence of Composition and Thermal Treatments on Cu-Containing Zr-Al Oxides Catalysts in Ethanol Dehydrogenation Reaction
12.40-13.00	OR-27 L. Akhmedova (RUDN University)	Acidic properties of $M_{0.5(1+x)}Al_xTi_{2-x}(PO_4)_3$ catalysts: effect on ethanol dehydration activity
13.00-13.20	OR-28 I. Kalagaev (Nizhny Novgorod State Technical University)	Cluster approach in liquid structure modeling
13.20-13.40	OR-29 A. Stepnova (Moscow State Pedagogical University)	Investigation of the catalytic activity of heteropoly compounds on the propane cracking model reaction

13.40-14.00	<i>OR-30</i> <i>V. Kost</i> <i>(RUDN University)</i>	Catalytic behaviour of surface cobalt on GdFeO <sub>3</sub> perovskite in the syngas production
14.00-15.00	LUNCH	
<b>Hall 2</b>		
15.00-15.30	<i>A. Malkov</i> <i>(Loughborough University, UK)</i>	Catalytic Stereoselective Formation of C-C and C-N Bonds in Target-Oriented Synthesis
15.40-16.10	<i>D. Werz</i> <i>(Technische Universität Braunschweig, Germany)</i>	Gain by Strain: Cyclopropanes as Spring-Loaded Entities for Organic Synthesis
16.10-16.40	<i>R. Luque</i> <i>(Universidad de Cordoba, Spain)</i>	Benign-by-design catalysis in Organic Chemistry for a more sustainable future
16.40	<b>Closing of the Conference</b>	
11.00-18.00	<b>Poster Session (OrgChem)</b>	