III International School-Conference
«Applied Nanotechnology & Nanotoxicology»
«ANT-2019»

October 10 – 13, 2019
Sochi, Russia

PRELIMINARY SCIENTIFIC PROGRAM
<table>
<thead>
<tr>
<th>Time</th>
<th>October 10 Thursday</th>
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<th>October 11 Friday</th>
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<th>October 12 Saturday</th>
<th>October 13 Sunday</th>
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<tbody>
<tr>
<td>09:00-09:45</td>
<td>PL-2 Vo</td>
<td>09:00-09:45</td>
<td>PL-4 Hernández</td>
<td>10:00-18:00</td>
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<td>09:45-10:30</td>
<td>PL-3 Goumenou</td>
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<td>PL-5 Moshkin</td>
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<td>10:30-11:00</td>
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<td>11:00-11:30</td>
<td>KL-3 Dostanic</td>
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<td>11:30-12:00</td>
<td>KL-4 Docea</td>
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<td>KL-6 Shur</td>
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<td>12:00-12:15</td>
<td>OP-01 Drozdov</td>
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<td>OP-17 Rachkovskaya</td>
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<td>12:15-12:30</td>
<td>OP-02 Mel’gunov</td>
<td>12:15-12:30</td>
<td>OP-18 Krivoshapkin</td>
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<td>12:30-12:45</td>
<td>OP-03 Shubin</td>
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<td>OP-19 Stepanova K.</td>
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<td>12:45-13:00</td>
<td>OP-04 Yeganyan</td>
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<td>OP-20 NazarovaKia</td>
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<td>14:30-14:45</td>
<td>OP-05 Stoyanovskii</td>
<td>14:30-16:00</td>
<td>Poster Session</td>
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<td>14:45-15:00</td>
<td>OP-06 Stepanova L.</td>
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<td>15:00-15:15</td>
<td>OP-07 Prozorovich</td>
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<td>OP-09 Kokatev</td>
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<td>OP-10 Bauman</td>
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<td>Sightseeing excursion around Rosa Khutor</td>
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<td>19:00-21:00</td>
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<td>Banquet</td>
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09.00 – 16.00 Registration

Hall 1

16.00 – 16.15 Opening Ceremony

OP-Opening
Reporter: Dr. Aleksey Vedyagin
Vedyagin A.A., Zibareva I.V.
BALANCING BETWEEN TECHNOLOGICAL ADVANTAGES AND TOXICOLOGICAL JEOPARDY OF THE NANOOBJECTS
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

16.15 – 17.00
PL-1
Reporter: Professor Toyoko Imae
PREPARATION OF METAL/METAL OXIDE/CARBON NANOPARTICLES AND THEIR FUNCTIONALITIES AND CATALYTIC APPLICATIONS
National Taiwan University of Science and Technology, Taipei, Taiwan

17.00 – 17.30
KL-1
Reporter: Professor Kirill Golokhvast
SURFACE NANOSTRUCTURING BY FEMTOSECOND LASER RADIATION AS APPROACHES TO DIRECTED CELL DIFFERENTIATION
Far Eastern Federal University, Vladivostok, Russia

17.30 – 18.00
KL-2
Reporter: Dr. Pavel Krivoshapkin
Krivoshapkin P.1, Koshevaia E.2, Kiselev G.1, Sherstyuk A.1, Nazarovskaia D.1, Krivoshapkina E.1, Morozov V.3, Shtil A.4
HIGH-ELECTRON DENSITY NANOMATERIALS FOR THERANOSTICS
1ITMO University, Saint-Petersburg, Russia
2Institute of chemistry Komi SC RAS, Syktyvkar, Russia
3Burnazyan Federal Medical Biophysical Center, Moscow, Russia
4Blokhin Cancer Research Center, Moscow, Russia

19.00 Welcome reception
OCTOBER 11
Hall 1

09.00 – 09.45
PL-2
Reporter: Professor Dai-Viet N. Vo
SYNGAS GENERATION FROM GREEN CATALYTIC REFORMING PROCESSES
University Malaysia Pahang (UMP), Kuantan, Malaysia

09.45 – 10.30
PL-3
Reporter: Professor Marina Paraskevi Goumenou
REGULATORY FRAMEWORK FOR NANOMATERIALS AND NANOTOXICOLOGY
Department of Toxicology and Forensic Sciences of the Medical School at the University of Crete, Heraklion, Crete, Greece

10.30 – 11.00 Coffee

OCTOBER 11
Hall 1

11.00 – 11.30
KL-3
Reporter: Dr. Jasmina Dostanic
PHOTOCATALYTIC HYDROGEN PRODUCTION OVER NI MODIFIED TITANIA BASED CATALYSTS
University of Belgrade, Belgrade, Serbia

11.30 – 12.00
KL-4
Reporter: Professor Anca Oana Docea
IN VIVO TOXICITY TESTING FOR NANOPARTICLES FOCUS ON METAL NANOPARTICLES
University of Medicine and Pharmacy of Craiova, Craiova, Romania

12.00 – 12.15
OP-1
Drozdov V.A., Trenikhin M.V., Gulayeva T.I., Yurpalov V.L., Lavrenov A.V.
STRUCTURE, TEXTURE AND MORPHOLOGY OF THE NANOPARTICLES FORMED BY RELATIVISTIC ELECTRON BEAM IRRADIATION OF CARBON BLACK
Center of New Chemical Technologies BIC, Omsk, Russia

12.15 – 12.30
OP-2
Mel’gunov M.S.
SPECIFIC SURFACE AREA OF METAL-ORGANIC FRAMEWORKS
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
12.30 – 12.45
OP-3
Shubin Y.V.¹, Plyusnin P.E.¹, Vedyagin A.A.², Stoyanovskii V.O.², Korenev S.V.¹
SYNTHESIS AND CATALYTIC PROPERTIES OF NANOALLOYS OF IMMISCIBLE METALS
¹Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia
²Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

12.45 – 13.00
OP-4
Yeganyan J.R., Knyazyan N.B.
OBTAINING NANOSTRUCTURED MATERIALS BASED ON SEGREGATING ALUMINOBOROSILICATE SYSTEMS
M.G. Manvelyan Institute of General and Inorganic Chemistry of the NAS RA, Yerevan, Armenia

13.00 – 14.30 Lunch

OCTOBER 11
Hall 1

14.30 - 14.45
OP-5
Stoyanovskii V.O.¹, Vedyagin A.A.¹, Volodin A.M.¹, Kenzhin R.M.¹, Plyusnin P.E.²
PHOTOLUMINESCENCE SPECTROSCOPY OF Rh³⁺ IONS IN ESTIMATION OF THE THERMAL STABILITY OF BIMETALLIC PdRh/La-Al₂O₃ MODEL CATALYSTS
¹Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
²Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia

14.45 – 15.00
OP-6
Stepanova L.N.³, Belskaya O.B.¹,², Kobzar E.O.¹, Vasilevich A.V.¹, Leont’eva N.N.¹, Licholobov V.A.³
STUDY OF INFLUENCE OF THE COMPOSITION OF Ni(Mg)AlOₓ CATALYSTS, PREPARED BY MECHANOCHEMOCAL ROUTE, ON THEIR PROPERTIES IN AQUA-PHASE FURFURAL HYDROGENATION
¹Center of New Chemical Technologies BIC, Omsk, Russia
²Omsk State Technical University, Omsk, Russia
³Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

15.00 – 15.15
OP-7
Ivanets A.I.¹, Prozorovich V.G.¹, Roshchina M. Yu.¹, Srivastava V.², Sillanpaa M.²,³
EFFICIENCY DESTRUCTION OF IBUPROFEN ONTO MAGNESIUM FERRITE CATALYST
¹Institute of General and Inorganic Chemistry of National Academy of Sciences of Belarus, Minsk, Belarus
²Department of Green Chemistry, Lappeenranta University of Technology, Mikkeli, Finland
³Department of Civil and Environmental Engineering, Florida International University, Miami, USA
15.15 – 15.30
OP-8
Gongxuan Lu
PHOTOCATALYTIC HYDROGEN EVOLUTION OVER 2-D CdS CATALYST
Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, Lanzhou, China

15.30 – 15.45
OP-9
Yakovleva N.M.¹, Kokatev A.N.¹, Lukiyanchuk I.V.², Rudnev V.S.² ³, Stepanova K.V.¹, Pettersson Håkan⁴
CATALYTICALLY ACTIVE COMPOSITE COATINGS WITH SELF-ORGANIZED POROUS ALUMINA MATRIX MODIFIED BY γ-MnO₂ NANOPARTICLES
¹Petrozavodsk State University, Petrozavodsk, Republic of Karelia, Russia
²Institute of Chemistry, Far East Branch, Russian Academy of Sciences, Vladivostok, Russia
³Far Eastern Federal University, Vladivostok, Russia
⁴Halmstad University, Halmstad, Sweden

15.45 – 16.00
OP-10
Bauman Y.I.¹, Mishakov I.V.¹ ², Serkova A.N.¹, Rieder D.³, Vedyagin A.A.¹
SYNTHESIS OF FUNCTIONAL CARBON NANOSTRUCTURES ON SELF-ORGANIZING Ni-M CATALYSTS
¹Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
²Novosibirsk State University, Novosibirsk, Russia
³Karlsruhe Institute of Technology, Karlsruhe, Germany

OCTOBER 11
Hall 2

14.30 – 14.45
OP-11
Chislova I.V., Sokolova E.S., Yafarova L.V., Khabibulina V.R., Zvereva I.A.
PEROVSKITES GdCo₁₋ₓFeₓO₃ NEW INORGANIC ANTIMICROBIAL MATERIALS
Saint-Petersburg State University, Saint-Petersburg, Russia

14.45 – 15.00
OP-12
Sherstiuk A.A., Azaryan A.D., Fakhardo A.F., Krivoshapkin P.V.
HAFNIUM OXIDE NANOPARTICLES MODIFIED WITH POLYMER SHELL
ITMO University, Saint-Petersburg, Russia

15.00 – 15.15
OP-13
Sutunkova M.P.¹, Katsnelson B.A.¹, Privalova L.I.¹, Minigalieva I.A.¹, Gurvich V.B.¹, Soloveva S.N.¹, Klinova, S.V.¹, Makeyev, O.G.², Valamina, I.E.², Sakhaustinova R.R.¹, Bushueva T.V.¹, Shur, V.Y.³, Zubarev, I.V.³, Shishkina, E.V.³
YEKATERINBURG NANOTOXICOLOGICAL TEAM’S EXPERIENCE IN ASSESSING EXPERIMENTALLY ADVERSE HEALTH EFFECTS OF METAL OXIDE NANOPARTICLES
¹The Yekaterinburg Medical Research Center for Prophylaxis and Health Protection in Industrial Workers, Yekaterinburg, Russia
15.15 – 15.30
OP-14
Nikolaeva V.O., Krivoshapkina E.F.
SPIDER WEB AS A NATURAL NANOCOMPOSITE MATERIAL FOR ECO-FRIENDLY APPLICATIONS
ITMO University, Saint-Petersburg, Russia

15.30 – 15.45
OP-15
Martakov I.S., Torlopov M.A., Sitnikov P.A., Shevchenko O.G.
FORMATION OF PHENOLIC ACID LAYER ON γ-AIOOH NANOPARTICLES SURFACE AND THEIR ANTIOXIDANT AND MEMBRANE-PROTECTIVE ACTIVITY
1Institute of Chemistry, Komi Science Centre, Ural Branch, RAS, Syktyvkar, Russia
2Institute of Biology, Komi Science Centre, Ural Branch, RAS, Syktyvkar, Russia

15.45 – 16.00
OP-16
Golubeva O.Yu., Shamova O.V.
HEMOLYTIC ACTIVITY OF ALUMINOSILICATE NANOPARTICLES WITH DIFFERENT MORPHOLOGY
1Institute of Silicate Chemistry, Russian Academy of Sciences, Saint-Petersburg, Russia
2Institute of Experimental Medicine, Saint-Petersburg, Russia

16.00 – 20.00 Sightseeing excursion around Rosa Khutor
OCTOBER 12
Hall 1

09.00 – 09.45
PL-4
Reporter: Professor Antonio F. Hernández Jerez
NANOFORMULATIONS OF PESTICIDES AND SAFETY - TOXICOLOGY AND RISK ASSESSMENT
University of Granada, Granada, Spain

09.45 – 10.30
PL-5
Reporter: Professor Mikhail Moshkin
NANOPARTICLES AND BRAIN
Federal Research Centre Institute Cytology and Genetics SB RAS, Novosibirsk, Russia

10.30 – 11.00 Coffee

OCTOBER 12
Hall 1

11.00 – 11.30
KL-5
Reporter: Dr. Ilya Mishakov
SYNTHESIS OF NANOSTRUCTURED CARBON MATERIALS VIA METAL DUSTING OF Ni-BASED ALLOYS
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

11.30 – 12.00
KL-6
Reporter: Professor Vladimir Shur
Shur V.Ya., Shishkina E.V., Gunina E.V., Zubarev I.V., Kuznetsov D.K., Vazhenin V.A., Morozova M.V., Zelenovskii P.S.
HIGHLIGHTS AND PERSPECTIVES OF NANOPARTICLE FABRICATION AND SHAPE CONTROL FOR NANOTOXICOLOGY IN THE URAL CENTER FOR SHARED USE “MODERN NANOTECHNOLOGY”
School of Natural Sciences and Mathematics, Ural Federal University, Ekaterinburg, Russia

12.00 – 12.15
OP-17
Rachkovskaya L.N.¹, Volodin A.M.², Rachkovsky E.E.¹, StoyanovskyV.O.², Vedyagin A.A.², Parmon V.N.², Bukhtiyarov V.I.², Madonov P.G.¹, Korolev M.A.¹, Letyagin A.Yu.¹
SORBENTS FOR PHARMACOLOGY
¹Research Institute of Clinical and Experimental Lymphology – Branch of the Institute of Cytology and Genetics, SB RAS, Novosibirsk, Russia
²Boreskov Institute of Catalysis SB RAS Novosibirsk, Russia
12.15 – 12.30
OP-18
Paramonova A.P., Nikolaeva V.O., Krivoshapkina E.F.
NANOBIOARCHITECTONICS: DIRECTED DESIGN OF HYBRID MATERIALS
ITMO University, Saint Petersburg, Russia

12.30 – 12.45
OP-19
Stepanova K.V., Kokatev A.N., Shulga A.M., Yakovleva N.M.
SURFACE NANOSTRUCTURING OF POROUS TITANIUM SPONGE SINTERED POWDERS BY MEANS OF ANODIZATION
Petrozavodsk State University, Petrozavodsk, Russia

12.45 – 13.00
OP-20
Nazarovskaia D.A.¹, Koshevaia E.D.², Morozov V.N.³, Kolyvanova M.A.⁴, Krivoshapkina E.F.¹, Krivoshapkin P.V.¹
SOL-GEL SYNTHESIS OF TANTALUM OXIDE NANOPARTICLES FOR CANCER THERANOSTICS
¹SCAMT Laboratory, ITMO University, Saint-Petersburg, Russia
²Institute of Chemistry, FRC Komi SC UB RAS, Syktyvkar, Russia
³Lomonosov Moscow State University, Moscow, Russia
⁴Burnasyan SRC-FMBC FMBA, Moscow, Russia

13.00 – 14.30 Lunch

OCTOBER 12
Hall 3

14.30 – 16.00 Poster Session

16.00 – 16.30 Coffee

OCTOBER 12
Hall 1

16.30 – 16.45
OP-21
Koskin A.P., Volodin A.M., Vedyagin A.A.
SYNTHESIS OF CALCIUM AND STRONTIUM MAYENITE-TYPE ALUMINATES AS A PRECURSOR OF OXYGEN CONDUCTIVE CERAMICS
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
16.45 – 17.00
OP-22
Alikin E.A.1, Denisov S.P.1, Baksheev E.O.1,2, Vedyagin A.A.3
NANOTECHNOLOGICAL ASPECTS IN DESIGN OF OXYGEN STORAGE COMPONENTS
1Ecoalliance LTD, Novouralsk, Russia
2Ural Federal University, Yekaterinburg, Russia
3Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

17.00 - 17.15
OP-23
Belopukhov E.A.1,2, Tregubenko V.Yu.1,2
METHODS OF REGULATING OF THE ALUMINA CATALYST SUPPORTS MECHANICAL STRENGTH: AN EXPERIMENT AND A MODEL USING THE DECISION TREES AND RANDOM FOREST
1Center of New Chemical Technologies BIC, Omsk, Russia
2Omsk State Technical University, Omsk, Russia

17.15 – 17.30
OP-24
Karnaukhov T.M.1,2, Veselov G.B.1,2, Vedyagin A.A.1
NANOSTRUCTURED METAL OXIDE SYSTEMS BASED ON MgO FOR OXIDATION AND REDUCTION PROCESSES
1Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
2Novosibirsk State University. Novosibirsk, Russia

17.30 – 17.45
OP-25
Kuryavyi V.G.1, Buznik V.M.2, Ustinov A.Yu.1, Tkachenko I.A.1, Kvach A.A.1, Marchenko Yu.V.1, Oprad P.1
NANOSTRUCTURED SAMPLES AND NANOCOMPOSITES OBTAINED IN A PLASMA OF A PULSE HIGH-VOLTAGE DISCHARGE
1Institute of Chemistry, Far East Branch, Russian Academy of Sciences, Vladivostok, Russia
2All Russian Scientific Research Institute of Aviation Materials, Moscow, Russia

17.45 – 18.00 Closing

19.00 Banquet

OCTOBER 13

10.00 – 18.00 Post-Tour to Sochi
POSTER SESSION

PP-1
Baksheev E.O., Alikin E.A., Pronina M.O., Kasyanova V.V., Myshkina A.V., Bazhukova I.N., Mashkovtsev M.A.
THE ENZYME-LIKE CATALYTIC ACTIVITY OF MALTODEXTRIN-COATED CERIUM OXIDE NANOPARTICLES
1Ural Federal University, Yekaterinburg, Russia
2Ecoalliance LTD, Novouralsk, Russia

PP-2
Chichkan A.S., Chesnokov V.V.
CATALYTIC DECOMPOSITION OF LIGHT HYDROCARBONS FOR ASSOCIATED PETROLEUM GAS UTILIZATION
1Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
2Novosibirsk State Technical University, Novosibirsk, Russia

PP-3
Dudysheva N., Golyshova E., Dzuba S.
NANOSTRUCTURES FORMED BY GUEST MOLECULES IN DISORDERED MEDIA BY PULSED EPR OF SPIN PROBES
1Physics Department, Novosibirsk State University, Novosibirsk, Russia
2Voevodsky Institute of Chemical Kinetics and Combustion RAS, Novosibirsk, Russia

PP-4
Ilyina E.V., Bedilo A.F., Shuvarakova E.I.
SYNTHESIS AND PROPERTIES OF NANOCRYSTALLINE CALCIUM ALUMINATES
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-5
Egorova E.M., Kaba S.I.
THE CORRECTION OF IN VITRO TOXICITY OF A SILVER NANOPARTICLE STABILIZER IN STUDIES ON ENDOTHELIAL CELLS
Institute of General pathology and Pathophysiology, Moscow, Russia

PP-6
THE STUDY OF CARTILAGE CELLS MORPHOLOGY GROWN ON THE MWCNT ARRAY
1Scientific-manufacturing complex “Technological Centre”, Moscow, Russia
2National Research University of Electronic Technology MIET, Moscow, Russia
3M. Sechenov First Moscow State Medical University, Moscow, Russia
4N.F. Gamaleya Scientific Research Institute of Epidemiology and Microbiology, Moscow, Russia

PP-7
Kuriganova A.B., Smirnova N.V.
ELECTROCHEMICAL ONE-POT SYNTHESIS OF NANODISPERSED SnO₂-BASED MATERIALS FOR PEM FUEL CELLS APPLICATIONS
Platov South-Russian State polytechnic University (NPI), Novocherkassk, Russia
FEATURES OF ELECTROPHORETIC DEPOSITION AND PHYSICOCHEMICAL PROPERTIES OF NANOSTRUCTURED Al-CuOx POWDER MATERIALS

1National Research University of Electronic Technology, Zelenograd, Russia
2Scientific-manufacturing Complex “Technological Centre”, Zelenograd, Russia

EFFECT OF SYNTHESIS CONDITIONS ON THE NANOSTRUCTURE OF (Ce1-xMx)0.8Ni0.2Oy CATALYSTS (M = La, Mg)

1Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
2Institute of Coal Chemistry and Material Science FRC CCC SB RAS, Kemerovo, Russia

STATE-OF-THE-ART IN CHARACTERIZATION OF ALUMINA POROUS STRUCTURE

Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

EXPERIMENTAL DATA FOR CHARACTERIZING TYPOLOGY OF METAL OXIDE NANOPARTICLES COMBINED TOXICITY AND ON ITS ATTENUATION WITH BIO-PROTECTORS

Yekaterinburg Medical Research Center for Prophylaxis and Health Protection in Industrial Workers, Yekaterinburg, Russia

STUDYING THE POSSIBILITY OF APPLYING THE Ni AND Mo HYDROGENATING ELEMENTS IN A GIVEN RATIO TO ALUMINA PREPARED BY ELECTRO-CHEMICAL ANODIZING

1Uzbek chemical-pharmaceutical research institute after A. Sultanov (UzCPRI), Tashkent, Uzbekistan
2National University of Uzbekistan named after M. Ulugbek, Tashkent, Uzbekistan

NEW METHODS OF SYNTHESIS OF BIMETALLIC COATINGS FOR THE CATALYTIC APPLICATION IN ENVIRONMENTALLY IMPORTANT REDOX REACTIONS

1Lomonosov Moscow State University, Moscow, Russia
2Ioffe Physico-Technical Institute of RAS, Saint-Petersburg, Russia
3Institute of Chemistry, Far Eastern Branch of RAS, Vladivostok, Russia
THE DEVELOPING OF COMPOSITIONS AND THERMAL CONDUCTIVITY OF ZINC OXIDE NANOFLOUIDS

1Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
2Novosibirsk State Technical University, Novosibirsk, Russia
3Kutateladze Institute of Thermophysics SB RAS, Novosibirsk, Russia

SHAPE CONTROL OF PbO NANO PARTICLES PRODUCED BY LASER ABLATION IN LIQUID
School of Natural Sciences and Mathematics, Ural Federal University, Ekaterinburg, Russia

CREATION OF NANO PARTICLES AND SURFACE NANOSTRUCTURES OF METAL OXIDES BY HOT WATER TREATMENT
School of Natural Science and Mathematics, Ural Federal University, Ekaterinburg, Russia