

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

Sumy State University

Technical University of Moldova

Lublin University of Technology

**2017 IEEE 7th International Conference on
Nanomaterials: Applications & Properties
(NAP – 2017)**

PROGRAM

Zatoka, Ukraine

September 10–15, 2017

Table of Contents

General Conference Information	3
Program-at-a-Glance	6
List of Presentations	13
Oral Session O1	13
Oral Session O2	17
Oral Session O3	21
Oral Session O4	23
Oral Session O5	26
List of Posters	29
Poster Session P1	29
Poster Session P2	34
Poster Session P3	39
Poster Session P4	44
Authors Index	49

Information for the Participants

The NAP – 2017 Organizing Committee is very pleased to
Welcome You to Ukraine!

The NAP – 2017 Conference is devoted to the most interesting aspects of modern Materials Science with the prime focus on nanoscale materials. Although nanoscience and nanotechnology are still in their infancy, this rapidly evolving field of research is quickly transforming almost all aspects of our everyday life. From the low power electronics and supercomputers, to advanced drugs and personalized medicine, from new industrial applications, and renewable energy to advanced transportation and clean air technologies, nanoscience is the foundation of many of the transformational discoveries in the decades to come.

Our goal is to bring together a broad international community of scientists, engineers, and educators who are already involved in defining a future where the understanding and controlling of matter at the nanoscale will ultimately lead to revolutionary technological and industrial advances.

We welcome you to Ukraine and hope that the NAP-2017 Conference will serve as an excellent international platform for an engaging and informal exchange of ideas, that provides opportunities to strengthen existing collaborations and catalyze new partnerships, and thus ultimately accelerating the application of nanotechnology to address the most urgent societal needs.

The NAP-2017 Organizing Committee wishes you fruitful work and a pleasant stay in the beautiful town of Zatoka!

ZATOKA

Zatoka (Cyrillic: **Затока**, meaning "bay") is an urban-type settlement and beach resort in Bilhorod-Dnistrovskyi Municipality in southwestern Ukraine. Zatoka - is not only a soft wave rolling on over 20 kilometers sandy beach of the Black sea, the sun caressing your skin and a sense of peace, but also the opportunity to taste fine vintage wines from the famous Swabian basements. History of Zatoka goes back to the old days, the campaigns of Duke Oleg to Tsargrad, whence comes the name Tsarigradski Lighthouse, built in 1857. The resort is located only 60 kilometers from the eternally young Odessa (excursion on Thursday) and 18 km from the ancient Akkerman (Bilhorod-Dnistrovskyi, excursion on Wednesday), which has one of the largest and best preserved medieval fortress in Ukraine.

CONFERENCE SESSIONS

Oral and Poster Sessions will be held from Monday, Sept. 11th through Friday, Sept. 15th at Ruta Hotel Complex, 114 Prymorska St., 67772 Zatoka, Odessa Region, Ukraine. Information about possible changes in the Program will be available via the announcements at the Local Organizing Committee information desk or online at <http://nap.sumdu.edu.ua>.

PRESENTATIONS

Speakers are to bring their presentation on a flash drive. All presentations will be loaded onto the desktop of the presentation room laptop *prior* to the start of the session. Use of personal laptop computers is discouraged. Speakers who have video clips in their presentation should check the compatibility with the projection equipment before the session starts.

Invited reports: presentation – 25 min. questions – 5 min.

Regular contributions: presentation – 13 min, questions – 2 min.

It is important to stay within the time limit so that other presenters will have an equal opportunity to present their papers and have time for answering questions.

Recommended poster size is A1 (594 × 841 mm).

LANGUAGE

English is the *official language* of the *Conference*.

OUTSTANDING STUDENT PRESENTATION AND POSTER AWARDS

The Conference Organizing Committee Members will select the best student oral and poster presentations. The presentations will be evaluated according to the quality of the research, originality of the work, and quality of the presentation. All student presenters, who are also co-authors of the proceeding paper, are eligible for these awards. The winners will receive a special Certificate and will be announced during the Closing Ceremony of the Conference.

CONFERENCE PROCEEDINGS

The proceeding papers will be published online on IEEE Xplore Digital Library site.

“PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON NANOMATERIALS: APPLICATIONS AND PROPERTIES’ 2017” (PROC. NAP-2017)

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Program-at-a-Glance

SUNDAY, SEPTEMBER 10, 2017

14:00 - 20:00 Registration of the Participants

MONDAY, SEPTEMBER 11, 2017

08:00 - 08:45 **Breakfast**

08:45 - 09:00 Official Opening of the Conference
Prof. Alexander Pogrebnjak
 Chairman of the NAP-2017 Conference, Sumy State University,
 Ukraine

ORAL SESSION O1

Chairs: **Dr. Prof. Alexander POGREBNJAK**, Sumy State University,
 Ukraine; **Dr. Valentine NOVOSAD**, Materials Science Division,
 Argonne National Laboratory, IL 60439, USA

09:00 - 09:30 Report No O1.1
 09:30 - 10:00 Report No O1.2 Proceeding ID 04NESP17
 10:00 - 10:30 Report No O1.3 Proceeding ID 01NNPT04

Track: *Properties and Characterization of Surfaces and Interfaces*
 10:30 - 10:45 Report No O1.4 Proceeding ID 01PCSI24

Track: *Nanostructured Thin Films*
 10:45 - 11:00 Report No O1.5 Proceeding ID 02NTF02
 11:10 - 11:25 Report No O1.6 Proceeding ID 02NTF26

11:15 - 11:40
Coffe/Tea Break

11:40 - 11:55 Report No O1.7 Proceeding ID 02NTF14

Track: *Nanomaterials for Biomedicine*
 11:55 - 12:10 Report No O1.8 Proceeding ID 04NB16

Track: *Functional Nanostructured Coatings*
 12:10 - 12:25 Report No O1.9 Proceeding ID 01FNC11

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*
 12:25 - 12:40 Report No O1.10 Proceeding ID 03NNSA03
 12:40 - 12:55 Report No O1.11 Proceeding ID 03NNSA13

13:00 - 14:00

Lunch

14:00 - 15:00

POSTER SESSION P1**ORAL SESSION O1** (*Continuation*)

Chairs: **Dr. Prof. Serhiy PROTSENKO**, Sumy State University, Ukraine;
Prof. Marek PRZYBYLSKI, Academic Centre for Materials and
 Nanotechnology, AGH University of Science and Technology,
 Poland

15:00 - 15:30 Report No O1.12

15:30 - 16:00 Report No O1.13

16:00 - 16:30 Report No O1.14

16:30 - 16:50

Coffe/Tea BreakTrack: *Nanostructured Thin Films*

15:50 - 17:05 Report No O1.15 Proceeding ID 02NTF11

17:05 - 17:20 Report No O1.16 Proceeding ID 02NTF03

Track: *Properties and Characterization of Surfaces and Interfaces*

16:20 - 17:35 Report No O1.17 Proceeding ID 01PCSI31

Track: *Magnetic Fine Particles and Multilayers*

17:35 - 17:50 Report No O1.18 Proceeding ID 02MFPM01

ORAL SESSION O2

Chairs: **Dr. Prof. Leonid SUKHODUB**, Sumy State University, Ukraine;
Prof. Oleg LUPAN, Technical University of Moldova, Moldova

09:00 - 09:30 Report No O2.1

09:30 - 10:00 Report No O2.1

10:00 - 10:30 Report No O2.3

Track: *Nanostructured Thin Films*

10:30 - 10:45 Report No O2.4 Proceeding ID 02NTF29

10:45 - 11:00 Report No O2.5 Proceeding ID 02NTF05

Track: *Functional Nanostructured Coatings*

11:00 - 11:15 Report No O2.6 Proceeding ID 01FNC04

11:15 - 11:35

Coffe/Tea Break

11:35 - 11:50	Report No O2.7	Proceeding ID 01FNC05
11:50 - 12:05	Report No O2.8	Proceeding ID 01FNC07
12:05 - 12:20	Report No O2.9	Proceeding ID 01FNC08
12:20 - 12:35	Report No O2.10	Proceeding ID 01FNC14

Track: *Nanomaterials for Electronics, Spintronics and Photonics*
 12:35 - 12:50 Report No O2.11 Proceeding ID 04NESP05

13:00 - 14:00

Lunch

14:00 - 15:00

POSTER SESSION P2**ORAL SESSION O2** (*Continuation*)

Chairs: **Prof. Pavlo MIKHEENKO**, University of Oslo, Norway;
Prof. Toshiyuki SHIMA, Magnetic Materials Laboratory of
 Engineering Faculty, Tohoku Gakuin University, Japan

15:00 - 15:30	Report No O2.12
15:30 - 16:00	Report No O2.13

Track: *Functional Nanostructured Coatings*
 16:00 - 16:15 Report No O2.14 Proceeding ID 01FNC17

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*
 16:15 - 16:30 Report No O2.15 Proceeding ID 03NNSA30

16:30 - 16:50

Coffe/Tea Break

Track: *Nanoparticles and Nanodevices Production Technology*
 16:50 - 17:05 Report No O2.16 Proceeding ID 01NNPT06

Track: *Carbon-Based Nanomaterials*
 17:05 - 17:20 Report No O2.17 Proceeding ID 03CBN13

Track: *Nanomaterials for Energy*
 17:20 - 17:35 Report No O2.18 Proceeding ID 03NE01
 17:35 - 17:50 Report No O2.19 Proceeding ID 03NE13

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*
 17:50 - 18:05 Report No O2.20 Proceeding ID 03NNSA40

ORAL SESSION O3

Chairs: **Prof. Dmytro NYKYPANCHUK**, Brookhaven National Laboratory, Center for Functional Nanomaterials, NY 11973, USA;
Prof. Jindrich MUSIL, University of West Bohemia in Pilsen, Czech Republic

09:00 - 09:30 Report No O3.1
 09:30 - 10:00 Report No O3.2
 10:00 - 10:30 Report No O3.3 Proceeding ID 03NE05

Track: *Nanoparticles and Nanodevices Production Technology*
 10:30 - 10:45 Report No O3.4 Proceeding ID 01NNPT11

Track: *Measurements and Analysis at the Nanoscale*
 10:45 - 11:00 Report No O3.5 Proceeding ID 02MAN05

Track: *Nanomaterials for Electronics, Spintronics and Photonics*
 11:00 - 11:15 Report No O3.6 Proceeding ID 04NESP18

11:15 - 11:35
Coffe/Tea Break

Track: *Nanomaterials for Biomedicine*
 11:35 - 11:50 Report No O3.7 Proceeding ID 04NB01
 11:50 - 12:05 Report No O3.8 Proceeding ID 04NB07
 12:05 - 12:20 Report No O3.9 Proceeding ID 04NB10
 12:20 - 12:35 Report No O3.10 Proceeding ID 04NESP06
 12:35 - 12:50 Report No O3.11 Proceeding ID 04NB23

13:00 - 14:00

Lunch

14:00 - 19:00 19-30
Excursion to Bilhorod-Dnistrovskyi Banquet

ORAL SESSION O4

Chairs: **Prof. Haifeng DING**, State Key Laboratory of Solid State Microstructures, School of Physics, Nanjing University, China;
Prof. Volodymyr IVACHENKO, Institute for Problems of Material Science, NASU, Kyiv, Ukraine

09:00 - 09:30 Report No O4.1
 09:30 - 10:00 Report No O4.2 Proceeding ID 02MFPM10

Track: *Nanoparticles and Nanodevices Production Technology*
 10:00 - 10:15 Report No O4.3 Proceeding ID 01NNPT05

Track: *Carbon-Based Nanomaterials*
 10:15 - 10:30 Report No O4.4 Proceeding ID 03CBN04
 10:30 - 10:45 Report No O4.5 Proceeding ID 03CBN12

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*
 10:45 - 11:00 Report No O4.6 Proceeding ID 03NNSA20

Track: *Properties and Characterization of Surfaces and Interfaces*
 11:00 - 11:15 Report No O4.7 Proceeding ID 01PCSI15

11:15 - 11:35

Coffe/Tea Break

11:35 - 11:50 Report No O4.8 Proceeding ID 01PCSI37

Track: *Nanomaterials for Biomedicine*
 11:50 - 12:05 Report No O4.9 Proceeding ID 04NB15
 12:05 - 12:20 Report No O4.10 Proceeding ID 04NB25
 12:20 - 12:35 Report No O4.11 Proceeding ID 04NB31

Track: *Nanostructured Thin Films*
 12:35 - 12:50 Report No O4.12 Proceeding ID 02NTF30

13:00 - 14:00

Lunch

Track: *Nanomaterials for Electronics, Spintronics and Photonics*
 14:00 - 14:15 Report No O4.13 Proceeding ID 04NESP08

Track: *Measurements and Analysis at the Nanoscale*
 14:15 - 14:30 Report No O4.14 Proceeding ID 02MAN10

Track: *Carbon-Based Nanomaterials*
 14:30 - 14:45 Report No O4.15 Proceeding ID 03CBN01

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*
 14:45 - 15:00 Report No O4.16 Proceeding ID 03NNSA15

14:00 - 15:00

POSTER SESSION P3

15:00 - 20:00

Excursion to Odessa

ORAL SESSION O5

Chairs: **Dr. Vadym ZAYETS**, Spintronics Research Center, National Institute of Advanced Industrial Science and Technology (AIST), Japan; **Dr. Vladimir KOMANICKY**, Institute of Physics, Pavol Jozef Safarik University, Slovakia

09:00 - 09:30 Report No O5.1

09:30 - 10:00 Report No O5.2

10:00 - 10:30 Report No O5.3

Track: *Nanostructured Thin Films*

10:30 - 10:45 Report No O5.4

Proceeding ID 02NTF19

10:45 - 11:00 Report No O5.5

Proceeding ID 02NTF28

Track: *Carbon-Based Nanomaterials*

11:00 - 11:15 Report No O5.6

Proceeding ID 03CBN14

11:00 - 12:00

POSTER SESSION

11:15 - 11:35

Coffe/Tea Break

Track: *Measurements and Analysis at the Nanoscale*

11:35 - 11:50 Report No O5.7

Proceeding ID 02MAN09

Track: *Nanomaterials for Energy*

11:50 - 12:05 Report No O5.8

Proceeding ID 03NE07

12:05 - 12:20 Report No O5.9

Proceeding ID 03NE11

Track: *Nanomaterials for Electronics, Spintronics and Photonics*

12:20 - 12:35 Report No O5.10

Proceeding ID 04NESP11

Track: *Nanomaterials for Biomedicine*

12:35 - 12:50 Report No O5.11

Proceeding ID 04NB17

13:00 - 14:00

Lunch**ORAL SESSION O5 (Continuation)**

Chairs: **Dr. Prof. Igor Lyubchanskii**, Donetsk O.O. Galkin Institute of Physics and Engineering, National Academy of Sciences of Ukraine, Kharkiv, Ukraine; **Dr. Vladimir CAMBEL**, Institute of Electrical Engineering, Slovak Academy of Sciences, Slovakia

14:00 - 14:15 Report No O5.12 Proceeding ID 04NB06

14:15 - 14:30 Report No O5.13 Proceeding ID 04NB26

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*

14:30 - 14:45 Report No O5.14 Proceeding ID 03NNSA39

POSTER SESSION P1

Track: *Properties and Characterization of Surfaces and Interfaces*

Track: *Functional Nanostructured Coatings*

Track: *Plasma and Ions for Surface Engineering.
Radiations Effects*

Track: *Nanoparticles and Nanodevices Production Technology*

POSTER SESSION P2

Track: *Nanoparticles and Nanodevices Production Technology*

Track: *Nanostructured Thin Films*

Track: *Measurements and Analysis at the Nanoscale*

Track: *Nanomaterials for Energy*

Track: *Nanomaterials for Electronics, Spintronics and Photonics*

POSTER SESSION P3

Track: *Measurements and Analysis at the Nanoscale*

Track: *Magnetic Fine Particles and Multilayers*

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*

Track: *Carbon-Based Nanomaterials*

POSTER SESSION P4

Track: *Carbon-Based Nanomaterials*

Track: *Nanomaterials for Energy*

Track: *Nanomaterials for Biomedicine*

Track: *Nanomaterials for Electronics, Spintronics and Photonics*

List of Presentations

MONDAY, SEPTEMBER 11, 2017

Oral SESSION O1

Plenary Reports

09:00 - 09:30

O1.1 DNA Programmed Assembly of Nanomaterials

*Nykypanchuk D.**Brookhaven National Laboratory, Center for Functional Nanomaterials, NY 11973, USA*

09:30 - 10:00

O1.2 Photonic Integration of Plasmonic Magneto-optical Waveguide and Si Nanowire Waveguide

*Zayets V.**Spintronics Research Center, National Institute of Advanced Industrial Science and Technology (AIST), Japan**Zayets V., Saito H., Yuasa S.*

04NESP17

10:00 - 10:30

O1.3 Single Nanowire Nanosensors: Fabrication and Detailed Studies

*Lupan O.**Department of Microelectronics and Biomedical Engineering, Technical University of Moldova, Moldova**Lupan O., Postica V., Lazari E., Gröttrup J., Kaidas V., Adeling R.*

01NNPT04

Track: *Properties and Characterization of Surfaces and Interfaces*

10:30 - 10:45

O1.4 Influence of the Surface Acoustic Wave on the Electron States of Adsorbed Semiconductor Surface

Seneta M., Peleshchak R., Guba S.

01PCSI24

Track: *Nanostructured Thin Films*

10:45 - 11:00

O1.5 Interplay Between Spin Polarization and Superconductivity in an *ex-situ* Bilayer $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ - $\text{YBa}_2\text{Cu}_3\text{O}_{7-d}$ *Mikheenko P., Fjellvåg A.S., Hjelmeland T.B., Mollatt H.J.,**Qureishy T.H.*

02NTF02

11:00 - 11:15

- O1.6 Self-organized Growth of Nickel Structures During Prolonged Quasi-equilibrium Condensation

Kosminska Yu., Perekrestov V., Rybalko Yu.

02NTF26

11:15 - 11:40

Coffe/Tea Break

11:40 - 11:55

- O1.7 Structure and Kinetics of the Crystallization of Oxide Films, Deposited by Laser Ablation

Bagmut A.G., Bagmut I.A.

02NTF14

Track: *Nanomaterials for Biomedicine*

11:55 - 12:10

- O1.8 Photoluminescence ZnO Nanorod Biosensors for Medical and Food Safety Applications

Viter R., Riektina U., Pleiko K., Savchuk M., Poletaev N., Ramanavicius A.

04NB16

Track: *Functional Nanostructured Coatings*

12:10 - 12:25

- O1.9 On the Increase in the Recrystallization Temperature of Nanostructured Vacuum Copper Based Condensates

Glushchenko M., Sobol' O.V., Zubkov A.I.

01FNC11

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*

12:25 - 12:40

- O1.10 Structural Performance of Nanoquasicrystalline Composites Based on Al-Fe-Cr-alloy: Synthesis and Key Characteristics

Byakova A., Yurkova A.

03NNSA03

12:40 - 12:55

- O1.11 The Influence of the Constant Physical Fields on Structure of Polymer Composites with Cadmium Oxide and Polyaniline

Bardadym Yu., Sporyagin E.

03NNSA13

13:00 - 14:00

Lunch

14:00 - 15:00

POSTER SESSION P1 (see p. 29 for details)

Plenary Reports

15:00 - 15:30

O1.12 Biological Applications of Transition Metal and Oxide Nanoparticles

*Kuznetsov D.**Department of Functional Nanosystems & High Temperature Materials, National University of Science and Technology "MISIS", Russian Federation*

15:30 - 16:00

O1.13 Apatite-biopolymer Nanostructured Materials for Biomedicine

*Sukhodub L.**Department of Biophysics, Biochemistry, Pharmacology and Biomolecular Engineering, Sumy State University, Ukraine*

16:00 - 16:30

O1.14 IR and THz Technologies. Application to Bioimaging and Medicine

*Sizov F.**Department of Physics and Technology of Low-Dimensional Systems, V.E. Lashkaryov Institute of Semiconductor Physics NAS of Ukraine, Ukraine*

16:30 - 16:50

Coffe/Tea Break**Track: Nanostructured Thin Films**

16:50 - 17:05

O1.15 Method of Receiving of Graphite Films and Oxide of Aluminum in a Polymeric Matrix

Makhanov K.M., Yermaganbetov K., Chirkova L., Arinova Ye., Arinova Ye.

02NTF11

17:05 - 17:20

O1.16 Current Transport through Ohmic Contacts to Indium Nitride with High Defect Density

Sai P., Safriuk N.V., Shynkarenko V.V.

02NTF03

Track: Properties and Characterization of Surfaces and Interfaces

17:20 - 17:35

O1.17 Stability of Magnetite Layer on $\text{Fe}_3\text{O}_4/\text{MgO}(001)$ and $\text{Fe}_3\text{O}_4/\text{Fe}/\text{MgO}(001)$ Films under 1MeV Kr^+ Ion Irradiation*Krupska M., Duda A., Kim-Ngan N.-T.H., Balogh A.G.*

01PCSI31

Track: *Magnetic Fine Particles and Multilayers*

17:35 - 17:50

O1.18 Current Controlled Magnetic Memory Based on Hysteretic Switching of Impedance in Conductor with Inclined Anisotropy Easy Axis

Ipatov M., Zhukova V., Zhukov A., Gonzalez J.

02MFPM01

TUESDAY, SEPTEMBER 12, 2017

Oral SESSION O2
Plenary Reports

09:00 - 09:30

O2.1 High Ku Magnetic Thin Films with Perpendicular Anisotropy

*Shima T.**Magnetic Materials Laboratory of Engineering Faculty, Tohoku Gakuin University, Japan*

09:30 - 10:00

O2.2 Towards Skyrmion Spintronics: Hybrid Magnetic Skyrmion

*Ding H.**State Key Laboratory of Solid State Microstructures, School of Physics, Nanjing University, China*

10:00 - 10:30

O2.3 Fundamental Limits to Nanotechnology

*Przybylski M.**Academic Centre for Materials and Nanotechnology, AGH University of Science and Technology, Poland*

Track: Nanostructured Thin Films

10:30 - 10:45

O2.4 Dynamical Dielectric Function of 2DEG in HgTe-based Quantum Wells in RPA Formalism

Melezhib E., Gumenjuk-Sichevska J., Dvoretzky S., Mikhailov N.

02NTF29

10:45 - 11:00

O2.5 Dendritic Flux Avalanches in High-quality NbN Superconducting Films

Mikheenko P., Qureishy T.H., Mercier F., Jacquemin M., Pons M.

02NTF05

Track: Functional Nanostructured Coatings

11:00 - 11:15

O2.6 Nanostructured PVD Film-Coated Alumina Powders for Thermal Spraying Technologies

Furman V., Smirnov I., Chorny A., Dolgov N., Andreytsev A.

01FNC04

11:15 - 11:35

Coffe/Tea Break

11:35 - 11:50

O2.7 Detection Properties of Individual and Networked CNT-ZnO-Hybrid Tetrapods

Lupan O., Postica V., Şontea V., Trofim V., Schütt F., Smazna D., Mishra Y.K., Adlung R.

01FNC05

11:50 - 12:05

O2.8 Enhancing the Conductivity of ZnO Micro- and Nanowire Networks with Gallium Oxide

Smazna D., Wolff N., Shree S., Schütt F., Mishra Y.K., Kienle L., Adlung R.

01FNC07

12:05 - 12:20

O2.9 Characterization of a Polydimethylsiloxane-Polythiourethane Polymer Blend with Potential as Fouling-Release Coating

Baum M., Gapeeva A., Hölken I., Adlung R.

01FNC08

12:20 - 12:35

O2.10 Research of Topological Aspects of Adaptive Behavior

Dadunashvili S.

01FNC14

Track: *Nanomaterials for Electronics, Spintronics and Photonics*

12:35 - 12:50

O2.11 Physical Mechanism of Resistive Switchings in Nanoscale Contacts Based on Complex Transition-Metal Oxides

Shapovalov A.P., Prikhna T., Revenko Yu., Belogolovskii M., Kordyuk A.

04NESP05

13:00 - 14:00

Lunch

14:00 - 15:00

POSTER SESSION P2 (see p. 34 for details)

Plenary Reports

15:00 - 15:30

O2.12 Flexible Nanocomposite Coatings: Role of Energy

Musil J.

Department of Physics, University of West Bohemia in Pilsen, Czech Republic

15:30 - 16:00

O2.13 Photonic-Magnonic Crystals

Lyubchanskii I.

Donetsk O.O. Galkin Institute of Physics and Engineering, National Academy of Sciences of Ukraine, Ukraine

Track: *Functional Nanostructured Coatings*

16:00 - 16:15

- O2.14 Conducting Polymers in the Design of Enzymatic Sensors
*Ramanavicius A., Mikoliunaite L., Gicevicius M., Popov A.,
 Ramanaviciene A.*

01FNC17

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*

16:15 - 16:30

- O2.15 Monte-Carlo Study of the Percolation in a Binary Composites:
 Hardcore and Softcore Models Comparison
Sagalianov I., Lazarenko O., Vovchenko L., Matzui L.

03NNSA30

16:30 - 16:50

Coffe/Tea Break**Track: *Nanoparticles and Nanodevices Production Technology***

16:50 - 17:05

- O2.16 The Criteria of Formation of InAs Quantum Dots in the Presence of
 Ultrasound
Peleshchak R., Kuzyk O., Dan'kiv O.

01NNPT06

Track: *Carbon-Based Nanomaterials*

17:05 - 17:20

- O2.17 Liquid-phase Laser Fabrication of Carbon Encapsulated Metal
 Nanoparticles for Plasmonics and Catalysis
Soni R.K., Navas M.P., Kero N., Tarasenko N.

03CBN13

Track: *Nanomaterials for Energy*

17:20 - 17:35

- O2.18 Lead Chalcogenide Films Grown by Pulsed Laser Deposition
Virt I., Tur Y., Potera P., Lusakowska E., Luka G.

03NE01

17:35 - 17:50

- O2.19 Anomalous High Temperature Crystal Structure Behaviour of
 $\text{PrCo}_{0.5}\text{Cr}_{0.5}\text{O}_3$
Vasylychko L., Hreb V., Pavlovska O., Mykhalichko V.

03NE13

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*

17:50 - 18:05

O2.20 Improvement of Catalytic Activity of Lipase in the Presence Two
Fluorescent Calix[4]arene Derivatives-grafted Fe₃O₄ Nanoparticles
Yilmaz M., Çetingüney S., Özyilmaz E.

03NNSA40

WEDNESDAY, SEPTEMBER 13, 2017

Oral SESSION O3**Plenary Reports**

09:00 - 09:30

- O3.1 Chalcogenide Semiconducting Glasses: a Class of Materials with Great Potential for Applications in Nanotechnology

*Komanicky V.**Condensed Matter Physics Department, Institute of Physics,
Pavol Jozef Safarik University, Slovakia*

09:30 - 10:00

- O3.2 Patterned Magnetic and Superconducting Thin Films: Fabrication, Properties and Applications

*Novosad V.**Materials Science Division, Argonne National Laboratory,
IL 60439, USA*

10:00 - 10:30

- O3.3 Nanomaterials for Renewable Energy Economy

*Mikheenko P.**Department of Physics, University of Oslo, Norway*

03NE05

Track: Nanoparticles and Nanodevices Production Technology

10:30 - 10:45

- O3.4 Diamond-like Local Structures in the Ball-milled Graphite

Rud A.D., Kirian I.M., Lakhnik A.M., Kornienko N.E., Kirichenko A.N.

01NNPT11

Track: Measurements and Analysis at the Nanoscale

10:45 - 11:00

- O3.5 Structural and Optical Properties of $\text{Cd}_{1-x}\text{Zn}_x\text{Te}$ Thick Films with High Zn Concentrations

*Znamenshchikov Ya., Kosyak V.V., Opanasyuk A.S., Kolesnyk
M.M., Fochuk P.M., Čerškus A.*

02MAN05

Track: Nanomaterials for Electronics, Spintronics and Photonics

11:00 - 11:15

- O3.6 Metal Nanofilms for Magnetic Field Sensors

*Vasyliiev A., Bolshakova I., Kost Y., Prystopiuk O., Shurygin F.,
Bulavin M., Kulikov S., Kargin N., Strikhanov M., Vasil'evskii I.,
Kuech T.*

04NESP18

11:15 - 11:35

Coffe/Tea Break**Track: *Nanomaterials for Biomedicine***

11:35 - 11:50

O3.7 NanoMatrix3D® Technology in Development of Nanofibrous Scaffolds: Biomedical Evaluation

Pogorielov M., Hapchenko A., Deineka V., Vodseďálková K., Berezkinová L., Vysloužilová L., Klápšťová A., Erben J., Oleshko O.

04NB01

11:50 - 12:05

O3.8 ZnS Quantum Dots Encapculated with Alginate: Synthesis and Antibacterial Properties

Hrebenyk L., Ivakhniuk T., Sukhodub L.

04NB07

12:05 - 12:20

O3.9 Antibacterial Activity of the New Copper Nanoparticles and Cu NPs/Chitosan Solution

Pogorielov M., Holubnycha V., Ivashchenko O., Kalinkevych O., Peplinska B., Jarek M., Korniienko V.

04NB10

12:20 - 12:35

O3.10 Exciton-Plasmon Interaction and Nonlinear-Optical Properties of Zn_{0.8}Co_{0.2}O/Au Nanoparticles Composite Film*Virt I., Gamernyk R.V., Malynych S.Z., Dziedzic A., Potera P., Wisz G.*

04NESP06

12:35 - 12:50

O3.11 Investigation of Antiradiation and Anticancer Efficiency of Nanodiamonds on Rat Erythrocytes

Batyuk L., Kizilova N., Berest V.

04NB23

13:00 - 14:00

Lunch

EXCURSION TO BILHOROD-DNISTROVSKYI

BANQUET

THURSDAY, SEPTEMBER 14, 2017

Oral SESSION O4

Plenary Reports

09:00 - 09:30

O4.1 Exploring Magnetic State of Ferromagnetic Nanostructures

*Cambel V.**Institute of Electrical Engineering, Slovak Academy of Sciences,
Slovakia*

09:30 - 10:00

O4.2 Magnetic Microwires: from Fabrication and Properties to Practical Applications

*Rodionova V.**Laboratory of Novel Magnetic Materials, Center for
Functionalized Magnetic Materials (FunMagMa), Immanuel
Kant Baltic Federal University, Russian Federation
Baraban I., Litvinova A., Rodionova V.*

02MFPM10

Track: *Nanoparticles and Nanodevices Production Technology*

10:00 - 10:15

O4.3 Fabrication of Nanostructures by Plasma and Laser Assisted Synthesis in Liquids

*Tarasenko N., Nevar A., Butsen A., Tarasenko N., Velusamy T.,
Chakrabarti S., Mariotti D., Kabbara H., Nominé A., Belmonte T.*

01NNPT05

Track: *Carbon-Based Nanomaterials*

10:15 - 10:30

O4.4 Synthesis and Analysis of Iron-doped CNT/PU Composites for Microwave Applications

Hussein M.I., Rajmohan I.J., Clément Q., Vukadinovic N., Haik Yo.

03CBN04

10:30 - 10:45

O4.5 Use of Humic Acid-Based Nanofibers for Dye Removal and Transport

Ayyildiz H., Ozcan F., Ertul S., Kara H., Aygun A.

03CBN12

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*

10:45 - 11:00

O4.6 Microwave and Ultrasound Energy in the Process of Fly Ash Zeolite Synthesis and its Application for CO₂ Sorption*Czuma N.K., Zarębska K., Baran P.*

03NNSA20

Track: *Properties and Characterization of Surfaces and Interfaces*

11:00 - 11:15

- O4.7 Influence of Obstacles on Equilibrium Properties of the Lattice Fluid on a Surface

Vikhrenko V., Argyrakis P., Giazitidis P., Skarpalezos L., Groda Ya.

01PCSI15

11:15 - 11:35

Coffe/Tea Break

11:35 - 11:50

- O4.8 Electron-Phonon Interaction in Ternary Rare-Earth Copper Antimonides LaCuSb_2 and $\text{La}(\text{Cu}_{0.8}\text{Ag}_{0.2})\text{Sb}_2$ probed by Yanson Point-Contact Spectroscopy

Gamayunova N.V., Bashlakov D.L., Kvitnitskaya O.E., Terekhov A.V., Naidyuk Yu.G., Bukowski Z., Babij M.

01PCSI37

Track: *Nanomaterials for Biomedicine*

11:50 - 12:05

- O4.9 Biosynthesis of Linden Protected Silver Nanoparticles and their Safe Application as a Catalyst for Reduction of Methylene Blue Hydrate

Pehlivan E., Ünver Ya., Altun T., Hussain M., Avci A.

04NB15

12:05 - 12:20

- O4.10 In vitro Cytotoxicity of Cerium Dioxide Nanoparticles and Its Effect on Nitrite-ion Production in Normal and Transplantable Cell Lines

Shydlovska O.A., Zholobak N.M.

04NB25

12:20 - 12:35

- O4.11 Using Impedance Porous GaAs-based for Biomedical Gas Sensor

Oksanich A.P., Pritchins S.E., Kogdas M.G., Holod A.G., Milovanov Y.S., Gavrilenko I.V.

04NB31

Track: *Nanostructured Thin Films*

12:35 - 12:50

- O4.12 Nanocluster's Magnetron Sputtering of Carbon-Nitride and Hybrid Nickel-Carbon-Nitride Films

Pashkevych Yu., Prudnikov A., Lamonova K., Pas'ko M.

02NTF30

13:00 - 14:00

Lunch

Track: *Nanomaterials for Electronics, Spintronics and Photonics*

14:00 - 14:15

- O4.13 Research of Photo Processes in Organic Objects with Participation of Nanoparticles of Silver

Yermaganbetov K., Chirkova L., Makhanov K., Arinova Ye.

04NESP08

Track: *Measurements and Analysis at the Nanoscale*

14:15 - 14:30

- O4.14 Investigation of Optical Properties of Ferrofluid by Using Magneto-Optical Transmission and Linear Dichroism

Akyurekli M., Gonulol Celikoglu M., Bayram A., Yarici I., Ozturk Ya.

02MAN10

Track: *Carbon-Based Nanomaterials*

14:30 - 14:45

- O4.15 Nitrogen-doped Graphene Quantum Dots for Dual-Modality Therapy and Imaging

Kuo W.-S.

03CBN01

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*

14:45 - 15:00

- O4.16 Synthesis of Copper Acetate/Polyvinyl Alcohol Nanofiber Composite by Electrospinning

Nasir M., Juliandri ., Nasrullah R.A.

03NNSA15

14:00 - 15:00

POSTER SESSION P3 (see p. 39 for details)

EXCURSION TO ODESSA

FRIDAY, SEPTEMBER 15, 2017

Oral SESSION O5

Plenary Reports

09:00 - 09:30

- O5.1 Nanoscale Order and Femtosecond Dynamics of Correlated Electron States in Layered Dichalcogenides

Karapetrov G.

Department of Physics, Drexel University, PA 19104, USA

09:30 - 10:00

- O5.2 Nanocrystallization Method of High Fe Content Amorphous Alloys and their High Bs Soft Magnetic Properties

Ota M.

Metallurgical Research Laboratory, Hitachi Metals Ltd., Japan

10:00 - 10:30

- O5.3 Electrochemical Determination of Oxazepam in Real Samples Based on Ag@Pt Nano-particles Grown on RGO

Rahimi-Nasrabadi M.

Department of Chemistry, Baqiyatallah University of Medical Sciences, Iran

Track: Nanostructured Thin Films

10:30 - 10:45

- O5.4 Thickness and Temperature Driven Micro-Raman Study of Interface Reactions of Co/Si

Brajpuria R.K., Kumar A., Singh P., Rajan S.

02NTF19

10:45 - 11:00

- O5.5 Temperature-dependent Structural and Magnetic Study of Co-sputtered Fe-Al Thin Film

Vyas A., Brajpuria R.K.

02NTF28

Track: Carbon-Based Nanomaterials

11:00 - 11:15

- O5.6 Use of Polymer-free Calixarene Nanofibers in Heavy Metal Extractions

Ozcan F., Ertul S.

03CBN14

11:00 - 12:00

POSTER SESSION P4 (see p. 44 for details)

11:15 - 11:35

Coffe/Tea Break**Track: *Measurements and Analysis at the Nanoscale***

11:35 - 11:50

O5.7 Resistance of Irradiated by H⁺ Ions Si in the Temperature Range 77-300 K*Vasiljev A., Kukhareenko O., Kozonushchenko O., Vasiliev T., Tolmachov M.*

02MAN09

Track: *Nanomaterials for Energy*

11:50 - 12:05

O5.8 Influence of Surface Oxygen Functionalities' Presence on the Catalytic Properties of CNT-supported Cu Catalysts in the Reforming of Methanol

Shtyka O., Mierczynski P., Maniecki T.

03NE07

12:05 - 12:20

O5.9 Structure and Optical Properties of CdS Nanoscale Thin Films Obtained by Direct Current Magnetron Sputtering

Kopach G., Mygushchenko R., Khrypunov G., Dobrozhan A., Harchenko M.

03NE11

Track: *Nanomaterials for Electronics, Spintronics and Photonics*

12:20 - 12:35

O5.10 Magnetoresistance of Doped Te:GaSb Whiskers

Druzhinin A.O., Ostrovskii I.P., Khoverko Yu.N., Liakh-Kaguy N.S., Byldina Ya.A.

04NESP11

Track: *Nanomaterials for Biomedicine*

12:35 - 12:50

O5.11 Use of Calix[4]Arene Nanofibers in the Treatment of MCF-7 Breast Cancer Cells

Ertul S., Ozcan F.

04NB17

13:00 - 14:00

Lunch

14:00 - 14:15

O5.12 Gold-based Nano-adjuvants

Yavuz E., Bagriacik E.U.

04NB06

14:15 - 14:30

O5.13 Improved Anticancer Efficacy of p-tert-butylcalix[4]arene through Surface Modifications

Uyar Arpacı P., Özcan F., Gök E., Ertul S.

04NB26

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*

14:30 - 14:45

O5.14 Electrospun Nanofibers with CdTe QDs, CdTeSe QDs and CdTe/CdS Core-shell QDs

Baslak C., Koysuren O., Kus M.

03NNSA39

14:45 - 15:00

Closing Ceremony

List of Posters

Poster SESSION P1

Monday, September 11, 2017, 14:00 - 15:00.

Track: *Properties and Characterization of Surfaces and Interfaces*

- | | | |
|-------|---|----------|
| P1.1 | Study of the Mechanical Alloyed Fe-Ni and Its Magnetic Properties
<i>Farahbakhsh I., Abbasi M.</i> | 01PCSI01 |
| P1.2 | Surface Bromination of Carbon Materials: a DFT Study
<i>Lisnyak V., Yatsymyrskyi A., Grishchenko L., Diyuk V., Zaderko A., Boldyrieva O.</i> | 01PCSI02 |
| P1.3 | Effect of the Duration of Car Engine Operation on the Mechanical Contaminants in its Lubricant
<i>Kuzema P., Kuzema O.</i> | 01PCSI03 |
| P1.4 | Intrinsic Stresses in CrN Coatings Deposited at Different Angles of Incidence Ions
<i>Kalinichenko A.I., Perepelkin S.S., Strel'nitskij V.E.</i> | 01PCSI04 |
| P1.5 | Resonance-related Mechanisms of Modifications in Surface Nano- and Micro- Layers of III-V Semiconductor Compounds Caused by Microwave and Magnetic Fields
<i>Red'ko R., Milenin V., Milenin V.V., Konakova R.V., Red'ko S.M.</i> | 01PCSI05 |
| P1.6 | Thickness Dependent Magnetic Transitions in Ion Beam Sputtered Fe/Si Nanostructure Thin Films
<i>Kumar A., Brajpuriya R., Singh P.</i> | 01PCSI06 |
| P1.7 | Effect of the Residual Gases Catalytic Activity on the Island Tin Films Crystallization
<i>Sukhov V.N., Bloshenko Z.V., Samsonik A.L.</i> | 01PCSI07 |
| P1.8 | Wetting of Nickel Films of Variable Thickness by Island Lead Condensates
<i>Dukarov S.V., Pojda V.P., Churilov I.G.</i> | 01PCSI08 |
| P1.9 | Effects of Cr and Si Additions under the Various Deposition Conditions on the Mechanical Properties of the (Zr-Ti-Nb)N Coatings
<i>Maksakova O., Beresnev V.M., Eskermesov D.K.</i> | 01PCSI10 |
| P1.10 | Investigation of the Magneto-optical Properties in Transparent Region of Implanted (YBiCa) ₃ (FeGe) ₅ O ₁₂ Garnet Films
<i>Kalandadze L.</i> | 01PCSI11 |
| P1.11 | Modeling the Noise Influence on the Metals Fragmentation Modes at Severe Plastic Deformation
<i>Troshchenko D., Trofymenko P., Khomenko A., Solonar I.</i> | 01PCSI12 |

- P1.12 Supercooling During the Crystallization of In and Sn in Copper and Molybdenum Based Multilayer Films
Petrushenko S., Bloshenko Z.V., Skryl O.I. 01PCSI13
- P1.13 Energy Spectrum of the Magnetic Bloch States of the 2D Electron Gas with Spin-orbit Interaction Rashba-type and Hexagonal Warping Effect
Fedulov I.N., Khudobina O. 01PCSI14
- P1.14 Synthesis of Nano-dispersed Perovskites under Sonochemical Treatment and their Catalytic Properties
Khalameida S., Sydorchuk V., Starchevskyy V., Koval I. 01PCSI16
- P1.15 Morphologies and Photoluminescence Properties of Porous n-InP
Suchikova Ya.O., Bogdanov I., Onishchenko S., Vambol S., Vambol V., Kondratenko O. 01PCSI17
- P1.16 Formation of High Absorption Nano- and Microstructures on Metal Surface by Nanosecond Laser Radiation
Tatur H., Bushuk S., Batishche S., Pilipenko V., Zhygulin D. 01PCSI18
- P1.17 Functionalization of Surface Layer of Nanoporous Carbon Fibers with Bromine and Amine Functional Groups
Lisnyak V., Grishchenko L., Vakaliuk A.V., Diyuk V., Boldyrieva O., Radkevich V.Z., Mischanchuk O.V. 01PCSI19
- P1.18 Electrochemical Behavior of Silver in Dicyanoargentate Electrolytes
Kublanovsky V., Bersirova O. 01PCSI21
- P1.19 Influence of e-Beam Irradiation on Optical Properties of Cu₆PS₅I-Based Superionic Thin Films
Izai V., Bendak A.V., Haysak I.I., Okunyeu A.G., Fradkin A.M., Studenyyak I.P., Kúš P. 01PCSI22
- P1.20 The Influence of Bombarding Particle Size on the Intensity of the Core-Shell Cluster Formation
Shyrokorad D.V., Kornich G.V. 01PCSI23
- P1.21 One-step Free-template Preparation of Silica with Hierarchical Porous Structure
Sydorchuk V., Khalameida S., Skubiszewska-Zięba J. 01PCSI25
- P1.22 CdTe Vapor Phase Condensates on (100) Si and Glass for Solar Cells
Nykyruy L., Saliy Ya., Yavorskyi R., Yavorskyi Ya., Wisz G., Górný Sz., Schenderovsky V. 01PCSI26
- P1.23 Effect of Substrate Temperature on the Optoelectronic Properties of Si-C-N:H Films
Kozak A., Ivaschenko V., Porada O., Ivashchenko L. 01PCSI27

- P1.24 Optical Properties of Thin Films CZTSe Produced by RF Magnetron Sputtering and Thermal Evaporation
Koziarskyi I.P., Maistruk E.V., Koziarskyi D.P., Andrushchak G.O. 01PCSI28
- P1.25 Nanotechnology, Internal Mechanical Stresses, Optical and Electronic Properties of Nanostructures with Germanium Films on Indium Phosphide Substrates
Matveeva L., Kolyadina E., Konakova R., Matiyuk I., Mitin V., Kholevchuk V., Venger E. 01PCSI29
- P1.26 Photoluminescence of Porous Indium Phosphide: Evolution of Spectra During Air Storage
Suchikova Ya.O., Bogdanov I., Onishchenko S., Vambol S., Vambol V., Kondratenko O. 01PCSI30
- P1.27 The Dynamic Destruction Aggregates in Nano Suspensions into Rotary Viscometer
Kuzma O. 01PCSI32
- P1.28 Physical Mechanisms of Formation of Surface States at Si/SiO₂ Interface in the Nanosized MOS Transistors
Volkov A., Andreev D.V. 01PCSI33
- P1.29 Electrodeposition of Composite Coatings with SiO₂ Nanopowder in the X-rays
Parafinyuk D., Lavysh D., Kasperovich A., Valko N. 01PCSI34
- P1.30 Synthesis of Acrylic Acid via Aldol Condensation Reaction on Titanium and Mixed Vanadium-Titanium Phosphate Catalysts with Different Porous Structure
Nebesnyi R., Ivasiv V., Shpyrka I., Nebesna Yu., Sydorchuk V., Khalameida S. 01PCSI35
- P1.31 Effect of DC Magnetron Sputtering Parameters on the Structure, Composition and Tribological Properties of TaB₂ Films
Pogrebnyak A.D., Goncharov A.A., Yunda A.N., Shelest I.V., Konarski P., Budzyński P. 01PCSI36

Track: *Functional Nanostructured Coatings*

- P1.32 The Shear Strength of Composite from the Titan and Hydroxyapatite3D Coatings with a New Type of Porous Structure, Intend for Biological Application
Beresnev V.M., Kalita V.I., Radyuk A.A., Komlev D.I., Komlev V.S., Ivannikov A.Yu., Alpatov A.V., Demin K.Iu., Mamonov V.I., Sevostianov M.A., Baikin A.S. 01FNC01

- P1.33 Characteristics of Arc-PVD TiAlSiY and (TiAlSiY)N Coatings
Kravchenko Ya., Lebedynskiy I.L., Iatsunskiy I., Borysiuk V.N., Kylyshkanov M.K., Smyrnova K.V. 01FNC02
- P1.34 Synthesis and Properties of Infrared Reflection of Iron-Chromium-Based Cool Pigment
Souri A., Ghahari M., Mobarhan G., Safi M. 01FNC03
- P1.35 Deposition and Research of High-entropy Carbide Coatings Based on Equiatomic AlCrFeCoNiCuV Alloy
Kovteba D., Gorban V., Karpez M., Andreev A., Cshikryzhov A., Ostroverh A., Serdyuk I. 01FNC06
- P1.36 Titanium Surface Nanostructuring by High-intensity Ultrasound
Brezhneva N., Skorb Ekaterina V., Ulasevich Sviatlana A. 01FNC09
- P1.37 Influence of Roughness of the Substrate on the Structure and Mechanical Properties of TiAlN Nanocoating Condensed by DCMS
Dyadyura K., Hovorun T.P., Pylypenko O.V., Hovorun M.V., Pererva V.I. 01FNC10
- P1.38 Formation of Polyamide-6 and Chitosan Nanofibers for Air Filtration by Electrospinning
Prokopchuk N.R., Shahok Zh.S., Prishchepenko D.V., Luhin V.G. 01FNC12
- P1.39 The Microstructure and Mechanical Properties of (TiAlSiY)N Nanostructured Coatings
Smyrnova K.V., Bondar O.V., Borba-Pogrebnjak S.O., Kravchenko Ya.O., Beresnev V.M., Zhollybekov B. 01FNC13
- P1.40 Structure and Properties of Ti-Al-Y-N Coatings Deposited from Filtered Cathodic-arc Plasma in Gas Ar and N₂ Mixture
Reshetnyak O., Luchaninov A., Vasyliiev V., Strel'nitskij V., Azar G.T., Ürgen M. 01FNC15
- P1.41 First-principles Study of the Stability of NbC-SiC Solid Solutions
Mediukh N.R., Ivashchenko V.I., Shevchenko V.I. 01FNC16
- P1.42 Phase Evolution in the Al-Mg System During Mechanical Alloying
Rud A.D., Lakhnik A.M., Kirian I.M. 01FNC18
- P1.43 Dependence of the Thermal Field in the Coated Cutting Insert on the Cutting Conditions
Goncharov A.A., Yunda A.N., Goncharova S.A., Belous D.A., Koval' S.V., Vasilyeva L.V. 01FNC19
- P1.44 Structure and Properties of Nanoscale MoN/CrN Multilayered Coatings
Konstantinov S.V., Konarski P., Opielak M., Komarov F.F., Beresnev V.M., Lisovenko M.O., Bondar O.V. 01FNC20

- P1.45 Effect of Deposition Process Parameters and High-temperature Annealing on the Structure and Properties of (Ti, Si)N/MoN Vacuum Arc Coatings
Nyemchenko U.S., Srebniuk P.A., Meylehov A.A., Postelnyk A.A., Lytovchenko S.V., Sobol' O.V., Beresnev V.M. 01FNC21
- P1.46 Structural Features and Physical and Mechanical Properties of AlN-TiB₂-TiSi₂ Amorphous and Nanocomposite Films
Demianenko A.A., Belovol' K.O. 01FNC22

Track: *Plasma and Ions for Surface Engineering. Radiations Effects*

- P1.47 Modification of Magnetic Characteristics of Polycrystalline NiFe Films at the Irradiation Laser Pulses and Formation of Regular Structure of Magnetic Nanoislands
Krupa M.M., Sharay I.V. 01PISERE01
- P1.48 Surface Patterning by Three-beam Laser Interference Lithography
Danylov A.B., Ilchuk H.A., Petrus R.Yu. 01PISERE02
- P1.49 Influence of Ion Bombardment on Mixing Processes in Multilayer Nitride Coatings with Nanometer-size Period
Meylekhov A., Postelnyk A.A., Stolbovoy V.A., Sobol' O.V. 01PISERE03

Track: *Nanoparticles and Nanodevices Production Technology*

- P1.50 Molecular Dynamics of Aluminum Nanoparticles Friction on Graphene
Khomenko A., Boyko D., Zakharov M., Khomenko K., Khyzhnya Ya. 01NNPT01
- P1.51 Synthesis, Characterization and Properties of Titanium Dioxide Obtained by Hydrolytic Method
Kutuzova A., Dontsova T. 01NNPT02
- P1.52 Nanoinformatics Application Framework for R&D and Industrial Analysis
Omelyanenko V., Volodin D. 01NNPT03
- P1.53 Friction Contact Temperature Registration by Infrared Imaging
Gordiyenko E., Shustakova G., Fomenko Yu., Glushchuk M., Kovalchenko A., Yefremenko V., Novosad V.

Track: *Properties and Characterization of Surfaces and Interfaces*

- P1.54 Characterization of Multilayered ZrN/CrN Coatings Deposited by Vacuum Arc Technology
Maksakova O., Pogrebnjak A.D., Kravchenko Ya., Simoēs S. 01PCSI09

Poster SESSION P2

Tuesday, September 12, 2017, 14:00 - 15:00.

Track: *Nanoparticles and Nanodevices Production Technology*

- P2.1 The Variety of Substrates for Surface-enhanced Raman Spectroscopy
Mikac L., Gotić M., Gebavi H., Ivanda M. 01NNPT07
- P2.2 Properties of Ni-C Nanoparticles Synthesized by Submerged Electrical Discharge in Ethanol
Nevar A., Burakov V.S., Kirys V.V., Nedelko M.I., Tarasenko N.V., Tarasenko N.N. 01NNPT08
- P2.3 Recuperation of Etching Solutions with Obtaining Pigments on the Basis of Ferrum Oxide
Derimova A., Frolova L., Savvin A., Prokopenko O. 01NNPT09
- P2.4 Analysis of the Nanoparticles Ensemble Motion Including Nonextensive Properties
Yushchenko O., Zhilenko T., Rudenko M. 01NNPT10
- P2.5 Hydrophase Ferritization Activation in Fe^{2+} - Ni^{2+} - SO_4^{2-} -OH- System
Frolova L.A., Shpatakova R. 01NNPT12
- P2.6 Gas Sensor Device Creation
Nagirnyak S.V., Dontsova T.A. 01NNPT13

Track: *Nanostructured Thin Films*

- P2.7 Nanostructured Thermoelectric Thin Films Obtained by Wet Chemical Synthesis
Klochko N.P., Kopach V., Khrypunov G., Korsun V., Lyubov V., Otchenashko O., Zhadan D., Kirichenko M., Nikitin V., Maslak M., Khrypunova A. 02NTF01
- P2.8 Structure and Elemental Composition of Multilayered Nanocomposite TiN/ZrN Coatings Before and After Annealing in Air
Bondar O.V., Lisovenko M.O., Bilovol K.V., Postolnyi B.O., Zukowski P., Konarski P., Coy E., Załęski K. 02NTF04
- P2.9 Mass- Spectra of As-S Glasses Evaporation
Kovtunencko V.S., Kolinko S. 02NTF06

- P2.10 Structural Properties of $\text{Cu}_2\text{ZnSnS}_4$ Thin Films Produced by Nanoink Spraying Process
Dobrozhan O.A., Danylchenko P.S., Kurbatov D.I., Opanasyuk N.M., Opanasyuk A.S. 02NTF07
- P2.11 De-wetting of Nanosized Binary Films: a Case Study on Au-Ge
Bogatyrenko S.I., Minenkov A.A., Zelenina I.S., Kryshstal A.P. 02NTF08
- P2.12 L10 FePt Phase Formation in $\text{Fe}_{50}\text{Pt}_{50}$ (15 nm) and $\text{Ag}(7.5 \text{ nm})/\text{Fe}_{50}\text{Pt}_{50}$ (15 nm) Films on $\text{SiO}_2/\text{Si}(001)$ Substrates
Shamis M., Makogon I., Verbytska T., Makushko P. 02NTF09
- P2.13 Magnetic Properties of Thin Film Systems Based on $\text{Fe}_x\text{Ni}_{100-x}$ and Cu
Pazukha I., Shkurdoda Yu., Bosenko V.S., Chornous A.M., Loboda V.B. 02NTF10
- P2.14 Size Evolution of Solid State Area on the Ag-Cu Phase Diagram
Minenkov A.A., Gritsenko V.V., Kryshstal A.P., Bogatyrenko S.I. 02NTF12
- P2.15 Voltammetric Analysis of Phase Composition of Zn-Ni Alloy Thin Films Electrodeposited under Different Electrolyze Modes
Maizelis A.A. 02NTF13
- P2.16 Correlation of the Structure and Optical Properties of Carbon Nitride Films CN_x
Prudnikov A., Pashkevich Yu., Lamonova K., Pas'ko M. 02NTF15
- P2.17 Formation of Porous Metal Nanosystems Using Direct and Reverse Flows of DC Magnetron Sputtering
Kornyushchenko A.S., Latyshev V.M., Perekrestov V.I., Rybalko Yu.O. 02NTF16
- P2.18 Clusters and Boundaries in Chalcogenide Amorphous Films
Sinelnik A.V., Lykah V.A., Dyakonenko N.L., Bilozertseva V.I., Korzh I.A. 02NTF17
- P2.19 Influence of High-temperature Annealing on Physical and Mechanical Properties of Nb-Si-N Coating
Rogoz V., Shakhova I., Jurchenko D., Kuzmenko A., Koltunowicz T. 02NTF18
- P2.20 Influence of Plasmon Effect Silver Nanoparticles on Photovoltaic and Electrophysical Properties of Organic Solar Cells
Zeinidenov A.K., Ibrayev N.Kh., Nurmakhanova A.K. 02NTF20
- P2.21 The Lattice Monte Carlo Method for Calculating the Effective Diffusivities in the Nanostructured Two-phase Media
Lyashenko Yu., Morozovich V., Liashenko O. 02NTF21

- P2.22 Electrophysical Parameters of Au-Ti Ohmic Contacts to Polycrystalline Diamond
Dub M. 02NTF22
- P2.23 Properties of ZnO:Er³⁺ Thin Films Obtained by Magnetron Sputtering and Sol-gel Synthesis
Malyutina-Bronskaya V., Semchenko A., Sidsky V., Fedorov V., Saladukha V., Perets A. 02NTF23
- P2.24 Phase Composition and Crystallite Size Study of Multilayered Transition Metal Films Based on Molybdenum and Chromium Nitrides
Postolnyi B.O., Bondar O.V., Rebuta L., Araujo J.P. 02NTF24
- P2.25 Spectroscopic and Microscopic Investigations of InFeSb Diluted Magnetic Semiconductors Prepared by Laser Ablation
Zykov G.S., Gan'shina E., Golik L., Kun'kova Z., Rukovishnikov A., Temiryazeva M., Markin Y., Lesnikov V. 02NTF25
- P2.26 Nanocrystalline States Formation in Amorphous Fe-B-P-Nb-Cr Alloys
Yarmoshchuk Ye., Mika T., Teselko P., Semen'ko M., Nosenko V. 02NTF27
- P2.27 Raman Spectroscopy Studies of Ge-As-S Chalcogenide Glasses
Revutska L., Shportko K.V., Stronski A.V., Baran J. 02NTF31
- P2.28 Effect of Hf Addition and Deposition Condition on the Structure and Properties of the Ti-Hf-Si -N Coatings
Shypylenko A., Lisovenko M., Belovol K., Konarski P., Beresnev V. 02NTF32
- P2.29 Effect of Metallic Phase Content on Electrical Properties of Nanocomposites (FeCoZr)_x(CaF₂)_{100-x}
Bondariev V., Protsenko S., Boiko O., Lebedynskiy I. 02NTF33
- P2.30 AC Measurements and Dielectric Properties of Nitrogen-rich Silicon Nitride Thin Films
Czarnacka K., Żukowski P., Komarov F.F., Romanov I.A., Parkhomenko I.N. 02NTF34
- P2.31 Magnetoresistance of Fe_xCo_{1-x} (x = 0.5) Film Alloys and Three-layer Structures Based on Fe_xCo_{1-x} and Cu
Saltykov D.I., Shkurdoda Yu.O., Protsenko I.Yu. 02NTF35
- P2.32 Interrupted Mode of Boundary Friction in Multicontact Tribological System
Zaskoka A. 02NTF36

- P2.33 Synthesis and Characterization of Nitride Multilayered Coatings Based on Refractory Metals
Bagdasaryan A.A., Pogrebnjak A.D., Pshyk A., Coy E., Beresnev V.M. 02NTF37
- P2.34 Synthesis and Characterization of Nanocrystalline CrFeCoNi Alloy by High Energetic Mechanical Alloying
Semen'ko M., Ostapenko R., Teselko P. 02NTF38
- P2.35 Influence of the Effective Layer Thickness with Dy and Temperature of Heat Treatment on the Structural-phase State and Magnetoresistive Properties of Ni/Dy/Co Three-layer Films
Vorobiov S.I., Shabelnyk T.M., Kondrakhova D.M., Shpetnyi I.O., Chornous A.M., Demydenko M.H. 02NTF39
- P2.36 Magnetoresistance of Film Materials Based on Iron and Noble Metals
Protsenko I.Yu., Odnodvovets L.V., Tkach O.P. 02NTF40
- P2.37 Hydrogen Permeability of Nanostructured Materials Based on Nickel, Synthesized by Electrochemical Method
Zvyagintseva A.V. 02NTF41
- P2.38 Structural Phase State of Thin Film Systems Based on Ru and Co
Lohvynov A.M., Cheshko I.V., Protsenko S.I. 02NTF42

Track: *Measurements and Analysis at the Nanoscale*

- P2.39 Heterogeneity of Deformation in Duplex Stainless Steel Subjected to Hydrostatic Extrusion
Mizera J., Maj P., Zbigniew Pakielka Z., Zdunek J. 02MAN01
- P2.40 Peculiarities of Constant Magnetic Field Effect on the Nanostructural Organization and Properties of Hard-to-weld Polyethylene-Polypropylene Joints
Demchenko V., Iurzhenko M.V. 02MAN02
- P2.41 Electrical Conductivity of Aliovalent Substitution Solid Solution $Pb_{1-x}Sm_xSnF_{4+x}$
Pshenychnyi R., Pogorenko Y.V., Omel'chuk A.O., Bol'shanina S.B. 02MAN03
- P2.42 Crystal Field Effect on Luminescent Characteristics of Europium Doped Orthovanadate Nanoparticles
Slepets A.A., Nedilko S.A., Voitenko T.A., Chukova O.V., Nedilko S.G. 02MAN04

- P2.43 Application of Radioluminescence Technique for Zirconia Powder and Nanoceramics
Mysiura I., Kalantaryan O., Kononenko S., Zhurenko V., Bogatyrenko S. 02MAN06
- P2.44 Heterogeneity of Deformation in Duplex Stainless Steel Subjected to Hydrostatic Extrusion
Pakiela Z., Mizera J., Maj P., Zdunek J. 02MAN07
- P2.45 Depth Measurement of Nanoscale Damage to the Surface of Silicon Wafers in the Production of Submicron Integrated Microcircuits by Auger Spectroscopy Method
Solodukha V.A., Shvedov S.V., Chyhir R.R., Petlitsky A.N. 02MAN08
- P2.46 Statistical Analysis of Transformer Oil Penetration Speed through Electrotechnical Pressboard
Rogalski P., Kozak C. 02MAN11
- P2.47 Influence of Temperature on DC Conductivity of Dry Electrical Pressboard Impregnated with Synthetic Ester
Kierczynski K., Zenker M. 02MAN12
- P2.48 Finite Element Model of Mechanical Tests of Pressureless Sintered Silicon Nitride
Lukianova O.A., Krasil'nikov V.V., Khmara A.N., Parkhomenko A.A. 02MAN13

Track: *Nanomaterials for Energy*

- P2.49 Cation Germanium Incorporation. New Direction Toward High-efficiency Kesterite Solar Cells
Shamardin A.V., Opanasyuk A.S., Kurbatov D.I., Istratov M.E. 03NE17
- P2.50 Spectral Characteristics of Electron States in δ -Barrier Nanostructure with Position-dependent Effective Mass
Seti J., Tkach M., Voitsekhivska O. 03NE02
- P2.51 Main, Excited and Hybrid States of the System of Localized Two-level Quasi-particle Interacting with Polarization Phonons at Cryogenic Temperature
Tkach M., Pytiuk O., Seti J., Voitsekhivska O., Boboshko K., Hutiv V. 03NE03

Track: *Nanomaterials for Electronics, Spintronics and Photonics*

- P2.52 Improved Design Josephson Junctions with Hybrid Nanostructured Barriers
Shaternik V.E., Shapovalov A., Prikhna T., Belogolovskii M., Suvorov O.Yu. 04NESP07

Poster SESSION P3

Thursday, September 14, 2017, 14:00 - 15:00.

Track: *Measurements and Analysis at the Nanoscale*

- P3.1 Thermophysical Properties of Pressureless Sintered Silicon Nitride
Lukianova O.A., Khmara A.N., Krasil'nikov V.V., Savotchenko S.E., Parkhomenko A.A. 02MAN14
- P3.2 Effect of the Various Oxide Additives on the Microhardness of Silicon Nitride Ceramics
Parkhomenko A.A., Lukianova O.A., Khmara A.N., Krasil'nikov V.V. 02MAN15
- P3.3 Measurement of W Boson Transverse Momentum Based on Data Simulation
Merkotan K.K. 02MAN16

Track: *Magnetic Fine Particles and Multilayers*

- P3.4 Magnetic Mineral Nanocomposite Sorbents for Removal of Surfactants
Makarchuk O.V., Dontsova T., Krymets G. 02MFPM02
- P3.5 Thermal Stability of Micro- and Nanoscale Magnetite by Thermomagnetic Analysis Data
Dudchenko N., Ponomar V.P., Brik A.B. 02MFPM03
- P3.6 Calculation of Spin Polarized Transport Parameters in "Simetric" GMR Structures of Co/Cu/Co Type
Dekhtyaruk L.V., Kharchenko A.P., Shkurdoda Yu.O., Basov A.G., Chornous A.M., Shabelnyk Yu.M. 02MFPM04
- P3.7 Anisotropic Gigant Magnetoresistive Effect in a Magnetically Ordered Three-layer Film
Dekhtyaruk L.V., Kharchenko A.P., Shkurdoda Yu.O., Basov A.G., Shabelnyk Yu.M., Chornous A.M. 02MFPM05
- P3.8 Electric Field Control of Backward Spin Waves in Thin Ferromagnetic Film
Savchenko A.S., Krivoruchko V.N. 02MFPM06
- P3.9 Magnetostatic Inner Fields in Multilayered Granular Systems
Veretennikova I.I., Shipkova I.G., Zhelunicina E. 02MFPM07

- P3.10 Electrodeposited Ferromagnetic Nanotubes: Structure and Magnetic Properties
Shumskaya A., Kaniukov E., Kutuzau M., Kozlovskiy A., Zdorovets M. 02MFPM08
- P3.11 Forced Coupled Motion of the Nanoparticle Magnetic Moment and the Whole Nanoparticle in a Viscous Fluid
Lyutyy T.V., Denisova E.S., Kvasnina A.V. 02MFPM09
- P3.12 Structural and Magnetic Properties of Physical Vapor Deposited Co Based Thin Films
Kharmouche A.
- P3.13 Structural, Magnetic and Dielectric Properties of Zn-substitution Co₂Y Barium Hexaferrite Nanoparticles Synthesized by Two Chemical Methods
Rashad M.M., El-Gendy M., Al Kholy M.M., Taha T.A., Rayan D.A.

Track: *Nanopolymers and Nanocomposites: Synthesis and Applications*

- P3.14 Evolution of Morphology and Texture During High Energy Ball Milling of the Mixture Fe and Al Powders
Brajpuria R.K., Vyas A., Khan S., Rajan S. 03NNSA01
- P3.15 Ordered Nanopolymer Structures Including lanthanide-organic Frameworks: Hydrothermal Synthesis, Characterization and Investigation of their Thermal and luminescence Properties
Ay B., Yildiz E., Zubieta J. 03NNSA02
- P3.16 Study of the Optical and Photovoltaic Properties of N-Methyl-1-(4-Cytisinophenyl) Fullerene- C60- [1,9] – Pyrrolidine
Zeinidenov A.K., Ibrayev N.Kh., Issayeva A.Zh., Fazylov S.D., Nurkenov O.A., Arinova A.E. 03NNSA04
- P3.17 Role of Intermolecular Interactions in Phase Behavior of Polyurethane Elastomer/Poly(Vinyl Chloride) Nanocomposites
Malysheva T., Tolstov A.L. 03NNSA05
- P3.18 Synthesis and Swelling Behaviour of Polyacrylamide/Modified Silica Hybrid Gels
Slisenko O. 03NNSA06
- P3.19 Preparation of Polyethersulfone / Graphene Oxide Microcellular Foam Using Supercritical CO₂
Kamrani M., Aghili A. 03NNSA07

- P3.20 Nanostructured Carboxylated Poly(Urethane-Acrylate)/Silver Composites
Tolstov A., Matyushov V.F., Lebedev E.V., Klimchuk D.A. 03NNSA08
- P3.21 UV-light Induced Solid-phase Photodegradation in PANI Nanocomposites
Mikhaylov S., Pud A., Wojkiewicz J.-L., Coddeville P. 03NNSA09
- P3.22 Peculiarities of Constant Magnetic Field Effect on the Nanostructural Organization and Properties of Hard-to-weld Polyethylene-Polypropylene Joints
Demchenko V., Iurzhenko M. 03NNSA10
- P3.23 Structure and Antimicrobial Properties of Nanocomposites Based on Pectin/PEI/Ag
Demchenko V., Riabov S., Rybalchenko N., Lobko Ye. 03NNSA11
- P3.24 Electrospinning and Physical Properties of Nanofiber Polymer-inorganic Planar Quantum Layers, Hybridized with 0-D Fe_2O_3
Balaban O., Grygorchak I., Borysyuk A., Larkin M., Hevus O., Mitina N., Zaichenko A., Datsyuk V., Trotsenko S. 03NNSA12
- P3.25 Green Polymer Nanocomposites: Formation via Plastic Deformation, Structure, Properties and New Application Opportunities
Voznyak A., Vozniak A., Goriainova Yu., Voznyak Yu. 03NNSA14
- P3.26 Magnetic Transitions in Nanocluster Systems Taking into Account the External Field
Badalyan A., Yushchenko O.V. 03NNSA16
- P3.27 Technical Properties of Elastomer Compositions with Functionalized Carbon Nanomaterial
Vishneuski K., Shashok Zh.S., Prokopchuk N.R. 03NNSA17
- P3.28 Features of the Production of Metal-filled Composites by Metallization of Polymeric Raw Materials
Moravskiy V., Dziaman I.Z., Suberliak S.A., Grytsenko O.M., Kuznetsova M.Ya. 03NNSA18
- P3.29 The Specificity of the Core-shell Polyvinylidene/Polyaniline Nanocomposite Sensing Applications
Myronyuk I., Pud A., Mamykin A., Kukla A. 03NNSA19
- P3.30 Investigation of the Impact of Modified Montmorillonite on the Viscosity of the Solutions of Polyvinyl Alcohol
Khamula N., Antoniuk V., Krasynskiy V., Suberlyak O., Dulebova L. 03NNSA21

- P3.31 Study of the Matrix of p-EGF:AA as a Nanoreactor for Obtaining Nickel Nanoparticles
Kudaibergen G., Tazhbayev E.M., Tovstukha K.V., Khamitova T.O. 03NNSA22
- P3.32 Formation of Polyamide-6 and Chitosan Nanofibers for Air Filtration by Electrospinning
Prishchepenko D., Prokopchuk N., Shashok Z., Luhin V. 03NNSA23
- P3.33 High-temperature Superconducting Nanocomposites and their Stability
Pilipenko A.O., Nedilko S., Dziazko O., Voitenko T., Fesich I., Zelenko M., Strutynska N., Galagan Y., Golovchenko O. 03NNSA24
- P3.34 Investigation of Formation Mechanism and Thermodynamic Functions of Fe₅B₃ Iron Boride
Filonenko N.Yu., Galdina A.N. 03NNSA25
- P3.35 Nonlinear Optical Response of KDP/Al₂O₃ Crystalline Nanocomposite
Kulyk B., Andrushchak N., Andrushchak A., Göring P., Sahraoui B. 03NNSA26
- P3.36 Reduction of 4-Nitrobenzoic Acid by AuNPs/Cryogel and PdNPs/Cryogel Nanocomposites
Aldabergenov M., Dauletbekova M., Toleutay G., Klivenko A., Kudaibergenov S. 03NNSA27
- P3.37 New Nano Material Design and Application Involving Epoxy for Dye Degradation
Orhan D., Gedik F., Altunbas C., Er S., Akgol S. 03NNSA28
- P3.38 Structural Features and Properties of Polyvinyl Chloride Metal Nanocomposites Obtained by Conductor Electric Explosion Method
Krivtsov V., Voloshyn O. 03NNSA29
- P3.39 Thermodynamic Properties of the System with Competing Interactions on a Triangular Lattice
Vikhrenko V., Groda Ya., Bildanov E. 03NNSA31
- P3.40 Towards Electrochemical/Electrochromic Sensors Based on Polyaniline Modified Indium Tin Oxide Electrodes
Ramanaviciene A., Deshmukh M.A., Gicevičius M., Shirsat M., Viter R., Ramanavicius A. 03NNSA32
- P3.41 The Effect of the Electrical Field on the Electrical and Mechanical Properties of Polyurethane/Carbon Nanotubes Composites
Lobko E., Demchenko V., Klepko V., Yakovlev Y., Lysenkov E. 03NNSA33
- P3.42 Synthesis and Properties of Nanocomposites with the Polyhedral Oligomeric Silsesquioxanes
Honcharova L., Karabanova L.V., Babkina N.V. 03NNSA34

- P3.43 The Influence of Montmorillonite on the Properties of Polyurethanes with Carbon Nanotubes
Maksymchuk S.V., Gagolkina Z.O., Bokhvan S.I., Klepko V.V. 03NNSA35
- P3.44 Electrical Properties of $\text{Ca}_3\text{Co}_4\text{O}_9$ and $\text{Ca}_3\text{Co}_{3.9}\text{Fe}_{0.1}\text{O}_9$ Ceramics
Koltunowicz T.N., Bondariev V., Boiko O., Fedotov A.K., Troyanchuk I., Fedotova V. 03NNSA36
- P3.45 Electrospinning of Hybrid Nanofibres Elaborated with PEG Core Dendrimers and SPIONs Synthesized in-situ: as Multifunctional Material for Biomedical Applications
Nirwan V.P., Malkoch M., Fahmi A. 03NNSA37
- P3.46 The Study of Photoelectrochemical Water Splitting by ZnO Nanostructures and ZnO/Ag Nanocomposites
Bakranov N., Abdullin Kh., Aldabergenov M., Ibrayev N., Kudaibergenov S. 03NNSA38

Track: *Nanomaterials for Biomedicine*

- P3.47 Evaluation of Biocompatibility of Supramolecular Calixarene on L-929 by Real Time Cell Analysis
Uyar Arpacı P., Özcan F., Omar N., Ertul S. 04NB27

Track: *Carbon-Based Nanomaterials*

- P3.48 Design of Azide-substituted Polypyridine Ligand
Ucan H.I., Obali A.Yi. 03CBN02
- P3.49 Fast and Economic Method for the Synthesis of Graphene Oxide Thin Films and Effect of Electron Beam Irradiation
Brajpuriya R.K., Gulia P., Kumar S., Tripathi A. 03CBN03
- P3.50 The Model for Nanostructured Metal Formation on the Surface of Different Types of Graphite
Prokopov O.I., Tsaregradskaya T.L., Ovsienko L.V., Lysov V.I., Matsui L.Yu. 03CBN05
- P3.51 Activated Carbon Fibers Modified with Sulfur-containing Functional Groups
Bezugla T., Grishchenko L., Vakaliuk A., Zaderko A., Diyuk V. 03CBN06
- P3.52 Mechanisms of Nucleation and Formation the Domain of a Polygraphene Coatings on Copper by CVD Process
Kolupaev I.N., Murakhovski A.V., Sobol V.O., Day Yu. 03CBN07

Poster SESSION P4

Friday, September 15, 2017, 11:00 - noon

Track: Carbon-Based Nanomaterials

- P4.1 The Use of Calixarene Nanofibers as an HPLC Column Filler
Ali S.S., Ertul S., Sen N., Durmaz F., Ozcan F. 03CBN08
- P4.2 Transport Properties of the Two-dimensional Graphene Superlattice: Effect of the Constant and Alternating Electric Field
Popov C.A., Kryuchkov S.V. 03CBN09
- P4.3 The Effect of Composition and Conditions of Preparation of Graphene Oxide Langmuir Films on their Electrophysical Parameters
Seliverstova E.V., Ibrayev N., Serikov T., Dzhanabekova R., Zhusupov S. 03CBN10
- P4.4 Graphene Superlattice with Tunable Electronic Band Structure
Abdrakhmanov V.L., Zav'yalov D.V., Kryuchkov S.V. 03CBN11
- P4.5 Graphene and Prospects of Radiation-Hard Hall Sensors
Bolshakova I., Dyuzhkov D., Kost Ya., Radishevskiy M., Shurigin F., Vasylyev A., Neumaier D., Otto M., Wang Z., Bulavin M., Kulikov A. 03CBN15
- P4.6 Morphological Structure and Microhardness of Ground Thermally Expanded Graphite
Revo S., Avramenko T., Melnichenko M., Ivanenko K., Teselko P. 03CBN16

Track: Nanomaterials for Energy

- P4.7 MnO₂ Nanoparticles as a Catalyst for The Air Electrode of a Zn/Air Battery
Makyeyeva I., Katashinskii A.S. 03NE04
- P4.8 Progressive Equipment for Generation of the Porous Ammonium Nitrate with 3D Nanostructure
Artyukhov A., Artyukhova N., Ivaniia A., Galenin R. 03NE06
- P4.9 Prospects of Nanomaterials Use in Current and Voltage Hall Sensors to Improve the Measurements Accuracy and Reduce the External Impacts
Diahovchenko I., Volokhin V., Derevyanko B. 03NE08

- P4.10 The Meso- and Macropores Generating Process via Modification of NH_4NO_3 Granules: Thermodynamic Regime Impact on the Granule Structure
Artyukhov A., Ivaniia A., Voznyi A. 03NE09
- P4.11 Experimental and Industrial Introduction of the Improved Devices to Generate NH_4NO_3 Granules with Nanoporous Structure
Artyukhov A., Ivaniia A. 03NE10
- P4.12 First-principles Study on Electronic and Optical Characteristics of Zinc Vanadate Photocatalyst
Sabbagh Alvani A., Sameie H., Naseri N. 03NE12
- P4.13 Polyol-Synthesized Plasmonic Ag Nanowires for Efficient Solar Energy Conversion
Sabbagh Alvani A., Salimi R., Naseri N. 03NE14
- P4.14 Photonics of Cyanine Dyes of Different Ionicity in Matrices of Halogen-containing Derivatives of PEPC
Seliverstova E., Ibrayev N., Afanasyev D., Nurmakhanova A., Davidenko N., Ishchenko A. 03NE15
- P4.15 Chemical Potential Distribution of Nonhomogeneous Solid Electrolyte
Vikhrenko V., Bokun G., Di Caprio D., Holovko M. 03NE16
- P4.16 Photovoltaic Effect of SnS/CdS Heterostructure
Voznyi A., Yeromenko Yu., Kosyak V., Shpetnyi I., Iatsunskiy I., Kolesnyk M., Opanasyuk A. 03NE18
- P4.17 A Combination of Calix[4]pyrrole and Bodipy: Fluorometric and Colorimetric Chemosensor for Fluoride Anion
Güler E., Taner B., Nuri Kursunlu A.

Track: *Nanomaterials for Biomedicine*

- P4.18 Effect of Peripheral Administration of Chemically-synthesized Silver Nanoparticles (Ag-NP) on of Serum Malondialdehyde (MDA) and Selected Enzymes in Rat Model
Lotfi A., Ghavidel Aghdam E., Narimani-Rad M. 04NB02
- P4.19 Development of a Biosensor for Selective Detection of Phytopathogenic Pythiums
Yamaguchi K., Uriu Yo., Kageyama K., Shimizu M. 04NB03
- P4.20 Investigation to Sensitive Determination of Glucose Using a Hybrid System Based on Graphene and Nickel Nanoparticles
Incebay H., Bilici E., Yazicigil Z. 04NB04

- P4.21 Electrochemical H₂O₂ Sensor Based on Graphene Oxide-iron Oxide Nanoparticles Composite
Yildiz S., Bas S.Z., Ozmen M. 04NB05
- P4.22 Complex of Synthetic 4-Thiazolidinone Derivatives with PEG-containing Polymeric Nanocarrier Improve of Biocompatibility and Protects Against Toxicity in Laboratory Rats
Kobylinska L.I., Skorohyd N., Panchuk R., Boiko N., Stoika R., Zaichenko A., Zimenkovsky B. 04NB08
- P4.23 Mg Alloys in-vitro Degradation in Simulated Body Fluid and Citrate Solutions
Pogorielov M., Husak Ye., Solodovnik O., Oleshko O., Kozik Ye., Yusupova A., Mishchenko O. 04NB09
- P4.24 Rationale and Medical Prospects of Nanostructured Materials Based on Hydroxyapatite
Roshchupkin A., Sukhodub L.F., Sukhodub L.B., Vysotckiy I.U., Gluschenko N.V. 04NB11
- P4.25 Development of Synthesis Technologies, Study of Physicochemical Properties of Apatite-Biopolymer Nanostructured Coatings on Activated Metal Substrates for Medical Implants
Sukhodub L.F., Sukhodub L.B. 04NB12
- P4.26 Liquid Crystals as an Active Medium of Enzymes Optical Sensors
Vistak M., Dmytrah V., Fafula R., Diskovskiy I., Mykytyuk Z., Sushynskiy O., Barylo G., Horbenko Yu. 04NB13
- P4.27 Magnesium-based Matrix composites Reinforced with Nanoparticles for Biomedical Applications
Dyadyura K., Sukhodub L.F. 04NB14
- P4.28 Calixarene Nanofiber Design for Human Colon Cancer 3D-Cell Culture
Uyar Arpacı P., Ozcan F., Agac M., Ertul S. 04NB24
- P4.29 MCF-7 Breast Cancer Cell Applications of the Morpholino Grouped p-tert-Butylcalixarene Nanofibers
Ahmed M., Ertul S., Ozcan F. 04NB18
- P4.30 Doxorubicin Loaded Iron Oxide Nanoparticles-Albumin Bioconjugate as Drug Carrier System
Cağil E.M., Akceylan E., Yildiz S. 04NB19
- P4.31 Preparation of Silver and Copper Nanoparticles for Biomedical Application
Mussabayeva B., Murzagulova K., Aripzhanova Z., A. Klivenko A. 04NB20

- P4.32 Synthesis and Properties of Ni_x/Au_{1-x} Nanotubes
Kozlovskiy A., Zdorovets M., Shumskaya A., Kanyukov E., Kutuzau M. 04NB21
- P4.33 Assymetric Block Copolymers Comprising Interacting Blocks for Drug Delivery
Permyakova N.M., Zheltonozhskaya T., Kunitskaya L., Beregova T., Klimchyk O. 04NB22
- P4.34 Carbon Nanostructures for Electrochemical Sensors
Mikoliunaite L., Geceviciute M., Voronovic J., Paklonskaitė I., Barkauskas J., Ramanaviciene A., Ramanavicius A. 04NB28
- P4.35 Optical Sensors Based on Electrochromic Conducting Polymers
Gicevičius M., Mikoliūnaitė L., Ramanavičius A., Ramanavičienė A. 04NB29
- P4.36 NanoMatrix3D® Nanofibrous Scaffolds for Tissue Engineering Approaches
Vasyliov R., Zubov D., Rodnichenko A., Gubar O., Zlatska A., Gordienko I., Pogorielov M., Deineka V., Oleshko O., Vodseďálková K., Berezkinová L. 04NB30
- Track: *Nanomaterials for Electronics, Spintronics and Photonics***
- P4.37 Tunneling of Wave Packages Through Resonant Quantum Systems
Filonenko N., Ivanov N.A. 04NESP01
- P4.38 Properties of Stimulated Emission of the PM567 dye in the Pores of Anodized Aluminum Oxide
Aimukhanov A.K., Yessimbek A.M., Ibrayev N.Kh. 04NESP02
- P4.39 Investigation of the Influence of Gold Nanoparticles on Stimulated Luminescence of Phenylamine 160 in Ethanol
Aimukhanov A.K., Ibrayev N.Kh., Yessimbek A.M., Yusupova J.B. 04NESP03
- P4.40 Method of Analysis Errors of Measurement Conversion of Impedance Spectroscopy with Activation Nonharmonic Signals
Vezyr F., Barylo G., Holyaka R., Vistak M., Virt V., Hotra Z. 04NESP04
- P4.41 Improved Design Josephson Junctions with Hybrid Nanostructured Barriers
Shaternik V.E., Shapovalov A., Prikhna T., Belogolovskii M., Suvorov O.Yu. 04NESP07
- P4.42 The Effect of Electric Field and Impurity on the Optical Properties of Multishell Quantum Dots
Yakhnevych M.Ya., Holovatsky V.A. 04NESP09

- P4.43 Boron Quasi-Planar Clusters
Chkhartishvili L. 04NESP10
- P4.44 Sol-gel Synthesis and Properties of Zinc Doped Tin Oxide (Zn-SnO₂) Nanoparticles
Kumar S., Bhutani R., Sirohi K., Singh V. 04NESP12
- P4.45 Luminescence Centers in ZnWO₄ Nanocrystals
Maksimchuk P., Tupitsyna I., Hubenko K., Seminko V., Yakubovskaya A., Zvereva V., Malyukin Yu., Vovk O. 04NESP13
- P4.46 The Optimization of Functional Layers of Solar Cells Based on n-ZnMgO / p-CuO and n-ZnMgO / p-Cu₂O Heterojunctions
Diachenko O., Opanasyuk A., Kurbatov D., Dobrozhan O., Grynenko V. 04NESP14
- P4.47 Energy spectrum of the Superlattice Consisting of the Alternating Strips of One-layer and Two-layer Graphene
Konchenkov V., Zav'yalov D., Kryuchkov S. 04NESP15
- P4.48 Resistive Vapour Sensors Based on Polyethylene Glycol/Carbon Nanotubes Composites
Porohnya O., Lobko Eu., Yakovlev Y. 04NESP16
- P4.49 Low-temperature Properties of Niobium Oxynitride Thin Films Prepared by Non-balanced Magnetron Sputtering
Odnodvoretz L.V., Volkov S.O. 04NESP19
- P4.50 Comparison of Sensitivity of Ge₉As₉Se₈₂ and Ge₁₆As₂₄Se₆₀ Thin Films to Irradiation with Electron Beam.
Shylenko O., Bilanych V., Feher A., Rizak V., Komanicky V. 04NESP20
- P4.51 Features of the Metamaterial Systems of a Range of Extremely High Frequencies
Prokopchuk O., Ruban A. 04NESP21
- P4.52 Controlling the Optical and Electrical Properties of Ca²⁺ Substituted SrTiO₃ Nanopowders Synthesized Using Oxalate Precursor Strategy
Rashad M.M., Rayan D.A., Roshdy R., El-Barawy K. 04NESP22
- P4.53 Perpendicular Exchange Bias Effect Investigation on x/CoO (PtCo, Ni) Ultra Thin Films
Akoz M.E., Parlak U., Kosemen A., Erkovan M. 04NESP23
- P4.54 Electric-field Control of Magnetocaloric Effect in FeRh-based Composite
Amirov A.A., Rodionov V.V., Rodionova V.V., Aliev A.M. 04NESP24

Author Index

A

Abbasi M..... P1.1 (01PCSI01)
 Abdрахmanov V.L..... P4.4 (03CBN11)
 Abdullin Kh..... P3.46 (03NNSA38)
 Adelung R..... O2.9 (01FNC08),
 O2.7 (01FNC05),
 O2.8 (01FNC07),
 O1.3 (01NNPT04)
 Afanasyev D..... P4.14 (03NE15)
 Agac M..... P4.28 (04NB24)
 Aghili A. P3.19 (03NNSA07)
 Ahmed M. P4.29 (04NB18)
 Aimukhanov A.K. P4.39 (04NESP03),
 P4.38 (04NESP02)
 Akceylan E. P4.30 (04NB19)
 Akgol S. P3.37 (03NNSA28)
 Akoz M.E..... P4.53
 Akyurekli M. O4.14 (02MAN10)
 Al Kholy M.M..... P3.13
 Aldabergenov M..... P3.36 (03NNSA27),
 P3.46 (03NNSA38)
 Ali S.S..... P4.1 (03CBN08)
 Aliev A.M. P4.54 (04NESP24)
 Alpatov A.V..... P1.32 (01FNC01)
 Altun T..... O4.9 (04NB15)
 Altunbas C..... P3.37 (03NNSA28)
 Amirov A.A. P4.54 (04NESP24)
 Andreev A..... P1.35 (01FNC06)
 Andreev D.V. P1.28 (01PCSI33)
 Andreytsev A. O2.6 (01FNC04)
 Andrushchak A..... P3.35 (03NNSA26)
 Andrushchak G.O..... P1.24 (01PCSI28)
 Andrushchak N..... P3.35 (03NNSA26)
 Antoniuk V..... P3.30 (03NNSA21)
 Araujo J.P..... P2.24 (02NTF24)
 Argyrakis P. O4.7 (01PCSI15)
 Arinova A.E. P3.16 (03NNSA04)
 Arinova Ye..... O1.15 (02NTF11),
 O1.15 (02NTF11),
 O4.13 (04NESP08)
 Aripzhanova Z..... P4.31 (04NB20)
 Artyukhov A. P4.11 (03NE10),
 P4.8 (03NE06),
 P4.10 (03NE09)
 Artyukhova N..... P4.8 (03NE06)
 Avci A..... O4.9 (04NB15)

Avramenko T..... P4.6 (03CBN16)
 Ay B. P3.15 (03NNSA02)
 Aygun A. O4.5 (03CBN12)
 Ayyildiz H. O4.5 (03CBN12)
 Azar G.T. P1.40 (01FNC15)

B

Babij M..... O4.8 (01PCSI37)
 Babkina N.V..... P3.42 (03NNSA34)
 Badalyan A. P3.26 (03NNSA16)
 Bagdasaryan A.A..... P2.33 (02NTF37)
 Bagmut A.G..... O1.7 (02NTF14)
 Bagmut I.A. O1.7 (02NTF14)
 Bagriacik E.U. O5.12 (04NB06)
 Baikin A.S. P1.32 (01FNC01)
 Bakranov N..... P3.46 (03NNSA38)
 Balaban O. P3.24 (03NNSA12)
 Balogh A.G..... O1.17 (01PCSI31)
 Baran J..... P2.27 (02NTF31)
 Baran P. O4.6 (03NNSA20)
 Baraban I. O4.2 (02MFPM10)
 Bardadym Yu..... O1.11 (03NNSA13)
 Barkauskas J. P4.34 (04NB28)
 Barylo G. P4.26 (04NB13),
 P4.40 (04NESP04)
 Bas S.Z..... P4.21 (04NB05)
 Bashlakov D.L..... O4.8 (01PCSI37)
 Baslak C..... O5.14 (03NNSA39)
 Basov A.G. P3.7 (02MFPM05),
 P3.6 (02MFPM04)
 Batishche S. P1.16 (01PCSI18)
 Batyuk L. O3.11 (04NB23)
 Baum M. O2.9 (01FNC08)
 Bayram A..... O4.14 (02MAN10)
 Belmonte T. O4.3 (01NNPT05)
 Belogolovskii M. P2.52 (04NESP07),
 O2.11 (04NESP05)
 Belous D.A. P1.43 (01FNC19)
 Belovol K..... P2.28 (02NTF32)
 Belovol K.O..... P1.46 (01FNC22)
 Bendak A.V. P1.19 (01PCSI22)
 Beregova T. P4.33 (04NB22)
 Beresnev V. P2.28 (02NTF32)
 Beresnev V.M..... P1.9 (01PCSI10),
 P2.33 (02NTF37),
 P1.39 (01FNC13),

	P1.32 (01FNC01),	Brik A.B.	P3.5 (02MFPM03)
	P1.44 (01FNC20),	Budzyński P.	P1.31 (01PCSI36)
	P1.45 (01FNC21)	Bukowski Z.	O4.8 (01PCSI37)
Berest V.	O3.11 (04NB23)	Bulavin M.	P4.5 (03CBN15),
Berezkinová L.	P4.36 (04NB30),		O3.6 (04NESP18)
	O3.7 (04NB01)	Burakov V.S.	P2.2 (01NNPT08)
Bersirova O.	P1.18 (01PCSI21)	Bushuk S.	P1.16 (01PCSI18)
Bezugla T.	P3.51 (03CBN06)	Butsen A.	O4.3 (01NNPT05)
Bhutani R.	P4.44 (04NESP12)	Byakova A.	O1.10 (03NNSA03)
Bilanych V.	P4.50 (04NESP20)	Byldina Ya.A.	O5.10 (04NESP11)
Bildanov E.	P3.39 (03NNSA31)		
Bilici E.	P4.20 (04NB04)	C	
Bilovol K.V.	P2.8 (02NTF04)	Cagil E.M.	P4.30 (04NB19)
Bilozertseva V.I.	P2.18 (02NTF17)	Cambel V.	O4.1
Bloshenko Z.V.	P1.7 (01PCSI07),	Çetingüney S.	O2.20 (03NNSA40)
	P1.12 (01PCSI13)	Chakrabarti S.	O4.3 (01NNPT05)
Boboshko K.	P2.51 (03NE03)	Cheshko I.V.	P2.38 (02NTF42)
Bogatyrenko S.	P2.43 (02MAN06)	Chirkova L.	O1.15 (02NTF11),
Bogatyrenko S.I.	P2.11 (02NTF08),		O4.13 (04NESP08)
	P2.14 (02NTF12)	Chkhartishvili L.	P4.43 (04NESP10)
Bogdanov I.	P1.15 (01PCSI17),	Chornous A.M.	P3.7 (02MFPM05),
	P1.26 (01PCSI30)		P3.6 (02MFPM04),
Boiko N.	P4.22 (04NB08)		P2.13 (02NTF10),
Boiko O.	P2.29 (02NTF33),		P2.35 (02NTF39)
	P3.44 (03NNSA36)	Chorni A.	O2.6 (01FNC04)
Bokhvan S.I.	P3.43 (03NNSA35)	Chukova O.V.	P2.42 (02MAN04)
Bokun G.	P4.15 (03NE16)	Churilov I.G.	P1.8 (01PCSI08)
Bol'shanina S.B.	P2.41 (02MAN03)	Chyhir R.R.	P2.45 (02MAN08)
Boldyrieva O.	P1.17 (01PCSI19),	Clément Q.	O4.4 (03CBN04)
	P1.2 (01PCSI02)	Coddeville P.	P3.21 (03NNSA09)
Bolshakova I.	P4.5 (03CBN15),	Coy E.	P2.8 (02NTF04),
	O3.6 (04NESP18)		P2.33 (02NTF37)
Bondar O.V.	P2.24 (02NTF24),	Cshikryzhov A.	P1.35 (01FNC06)
	P2.8 (02NTF04),	Czarnacka K.	P2.30 (02NTF34)
	P1.39 (01FNC13),	Czuma N.K.	O4.6 (03NNSA20)
	P1.44 (01FNC20)		
Bondariev V.	P2.29 (02NTF33),	Č	
	P3.44 (03NNSA36)	Čerškus A.	O3.5 (02MAN05)
Borba-Pogrebnyak S.O.	P1.39 (01FNC13)		
Borysiuk V.N.	P1.33 (01FNC02)	D	
Borysyuk A.	P3.24 (03NNSA12)	Dadunashvili S.	O2.10 (01FNC14)
Bosenko V.S.	P2.13 (02NTF10)	Dan'kiv O.	O2.16 (01NNPT06)
Boyko D.	P1.50 (01NNPT01)	Danylchenko P.S.	P2.10 (02NTF07)
Brajpuriya R.	P1.6 (01PCSI06)	Danylov A.B.	P1.48 (01PISERE02)
Brajpuriya R.K.	P3.14 (03NNSA01),	Datsyuk V.	P3.24 (03NNSA12)
	P3.49 (03CBN03),	Dauletbekova M.	P3.36 (03NNSA27)
	O5.5 (02NTF28),		
	O5.4 (02NTF19)		
Brezhneva N.	P1.36 (01FNC09)		

Davidenko N.	P4.14 (03NE15)	E	
Day Yu.	P3.52 (03CBN07)		
Deineka V.	P4.36 (04NB30), O3.7 (04NB01)	El-Barawy K.	P4.52
Dekhtyaruk L.V.	P3.7 (02MFPM05), P3.6 (02MFPM04)	El-Gendy M.	P3.13
Demchenko V.	P3.22 (03NNSA10), P3.22 (03NNSA10), P3.23 (03NNSA11), P3.41 (03NNSA33)	Er S.	P3.37 (03NNSA28)
Demianenko A.A.	P1.46 (01FNC22)	Erben J.	O3.7 (04NB01)
Demin K.Iu.	P1.32 (01FNC01)	Erkovan M.	P4.53
Demydenko M.H.	P2.35 (02NTF39)	Ertul S.	O5.11 (04NB17), P3.47 (04NB27), O5.13 (04NB26), P4.29 (04NB18), P4.1 (03CBN08), P4.28 (04NB24), O4.5 (03CBN12), O5.6 (03CBN14)
Denisova E.S.	P3.11 (02MFPM09)	Eskermesov D.K.	P1.9 (01PCSI10)
Derevyanko B.	P4.9 (03NE08)	F	
Derimova A.	P2.3 (01NNPT09)	Fafula R.	P4.26 (04NB13)
Deshmukh M.A.	P3.40 (03NNSA32)	Fahmi A.	P3.45 (03NNSA37)
Di Caprio D.	P4.15 (03NE16)	Farahbakhsh I.	P1.1 (01PCSI01)
Diachenko O.	P4.46 (04NESP14)	Fazylov S.D.	P3.16 (03NNSA04)
Diahovchenko I.	P4.9 (03NE08)	Fedorov V.	P2.23 (02NTF23)
Ding H.		Fedotov A.K.	P3.44 (03NNSA36)
Diskovskiy I.	P4.26 (04NB13)	Fedotova V.	P3.44 (03NNSA36)
Diyyuk V.	P3.51 (03CBN06), P1.17 (01PCSI19), P1.2 (01PCSI02)	Fedulov I.N.	P1.13 (01PCSI14)
Dmytrah V.	P4.26 (04NB13)	Feher A.	P4.50 (04NESP20)
Dobrozhan A.	O5.9 (03NE11)	Fesich I.	P3.33 (03NNSA24)
Dobrozhan O.	P4.46 (04NESP14)	Filonenko N.	P4.37 (04NESP01)
Dobrozhan O.A.	P2.10 (02NTF07)	Filonenko N.Yu.	P3.34 (03NNSA25)
Dolgov N.	O2.6 (01FNC04)	Fjellvåg A.S.	O1.5 (02NTF02)
Dontsova T.	P3.4 (02MFPM02), P1.51 (01NNPT02)	Fochuk P.M.	O3.5 (02MAN05)
Dontsova T.A.	P2.6 (01NNPT13)	Fomenko Yu.	P1.53
Druzhinin A.O.	O5.10 (04NESP11)	Fradkin A.M.	P1.19 (01PCSI22)
Dub M.	P2.22 (02NTF22)	Frolova L.	P2.3 (01NNPT09)
Duda A.	O1.17 (01PCSI31)	Frolova L.A.	P2.5 (01NNPT12)
Dudchenko N.	P3.5 (02MFPM03)	Furman V.	O2.6 (01FNC04)
Dukarov S.V.	P1.8 (01PCSI08)	G	
Dulebova L.	P3.30 (03NNSA21)	Gagolkina Z.O.	P3.43 (03NNSA35)
Durmaz F.	P4.1 (03CBN08)	Galagan Y.	P3.33 (03NNSA24)
Dvoretzky S.	O2.4 (02NTF29)	Galdina A.N.	P3.34 (03NNSA25)
Dyadyura K.	P1.37 (01FNC10), P4.27 (04NB14)	Galenin R.	P4.8 (03NE06)
Dyakonenko N.L.	P2.18 (02NTF17)	Gamayunova N.V.	O4.8 (01PCSI37)
Dyuzhkov D.	P4.5 (03CBN15)	Gamernyk R.V.	O3.10 (04NESP06)
Dzhanabekova R.	P4.3 (03CBN10)	Gan'shina E.	P2.25 (02NTF25)
Dziaman I.Z.	P3.28 (03NNSA18)	Gapeeva A.	O2.9 (01FNC08)
Dziazko O.	P3.33 (03NNSA24)		
Dziedzic A.	O3.10 (04NESP06)		

Gavrilchenko I.V.	O4.11 (04NB31)	Haysak I.I.	P1.19 (01PCSI22)
Gebavi H.	P2.1 (01NNPT07)	Hevus O.	P3.24 (03NNSA12)
Gecevicute M.	P4.34 (04NB28)	Hjelmeland T.B.	O1.5 (02NTF02)
Gedik F.	P3.37 (03NNSA28)	Hölken I.	O2.9 (01FNC08)
Ghahari M.	P1.34 (01FNC03)	Holod A.G.	O4.11 (04NB31)
Ghavidel Aghdam E.	P4.18 (04NB02)	Holovatsky V.A.	P4.42 (04NESP09)
Giazitzidis P.	O4.7 (01PCSI15)	Holovko M.	P4.15 (03NE16)
Gicevicius M.	O2.14 (01FNC17)	Holubnycha V.	O3.9 (04NB10)
Gicevičius M.	P4.35 (04NB29), P3.40 (03NNSA32)	Holyaka R.	P4.40 (04NESP04)
Gluschenko N.V.	P4.24 (04NB11)	Honcharova L.	P3.42 (03NNSA34)
Glushchenko M.	O1.9 (01FNC11)	Horbenko Yu.	P4.26 (04NB13)
Glushchuk M.	P1.53	Hotra Z.	P4.40 (04NESP04)
Gok E.	O5.13 (04NB26)	Hreb V.	O2.19 (03NE13)
Golik L.	P2.25 (02NTF25)	Hrebenyk L.	O3.8 (04NB07)
Golovchenko O.	P3.33 (03NNSA24)	Hubenko K.	P4.45 (04NESP13)
Goncharov A.A.	P1.31 (01PCSI36), P1.43 (01FNC19)	Husak Ye.	P4.23 (04NB09)
Goncharova S.A.	P1.43 (01FNC19)	Hussain M.	O4.9 (04NB15)
Gonulol Celikoglu M.	O4.14 (02MAN10)	Hussein M.I.	O4.4 (03CBN04)
Gonzalez J.	O1.18 (02MFPM01)	Hutiv V.	P2.51 (03NE03)
Gorban V.	P1.35 (01FNC06)	Hovorun M.V.	P1.37 (01FNC10)
Gordiyenko E.	P1.53	Hovorun T.P.	P1.37 (01FNC10)
Gordienko I.	P4.36 (04NB30)		
Goriainova Yu.	P3.25 (03NNSA14)	I	
Göring P.	P3.35 (03NNSA26)	Iatsunskyi I.	P1.33 (01FNC02), P4.16 (03NE18)
Górny Sz.	P1.22 (01PCSI26)	Ibrayev N.	P4.14 (03NE15), P4.3 (03CBN10), P3.46 (03NNSA38)
Gotić M.	P2.1 (01NNPT07)	Ibrayev N.Kh.	P2.20 (02NTF20), P4.39 (04NESP03), P4.38 (04NESP02), P3.16 (03NNSA04)
Grishchenko L.	P3.51 (03CBN06), P1.17 (01PCSI19), P1.2 (01PCSI02)	Ilchuk H.A.	P1.48 (01PISERE02)
Gritsenko V.V.	P2.14 (02NTF12)	Incebay H.	P4.20 (04NB04)
Groda Ya.	O4.7 (01PCSI15), P3.39 (03NNSA31)	Ipatov M.	O1.18 (02MFPM01)
Gröttrup J.	O1.3 (01NNPT04)	Ishchenko A.	P4.14 (03NE15)
Grygorchak I.	P3.24 (03NNSA12)	Issayeva A.Zh.	P3.16 (03NNSA04)
Grynenko V.	P4.46 (04NESP14)	Istratov M.E.	P2.49 (03NE17)
Grytsenko O.M.	P3.28 (03NNSA18)	Iurzenko M.	P3.22 (03NNSA10)
Guba S.	O1.4 (01PCSI24)	Iurzenko M.V.	P3.22 (03NNSA10)
Gubar O.	P4.36 (04NB30)	Ivakhniuk T.	O3.8 (04NB07)
Güler E.	P4.17	Ivanda M.	P2.1 (01NNPT07)
Gulia P.	P3.49 (03CBN03)	Ivanenko K.	P4.6 (03CBN16)
Gumenjuk-Sichevska J.	O2.4 (02NTF29)	Ivaniia A.	P4.11 (03NE10), P4.8 (03NE06), P4.10 (03NE09)
		Ivannikov A.Yu.	P1.32 (01FNC01)
H		Ivanov N.A.	P4.37 (04NESP01)
Haik Yo.	O4.4 (03CBN04)		
Hapchenko A.	O3.7 (04NB01)		
Harchenko M.	O5.9 (03NE11)		

Ivaschenko V.....	P1.23 (01PCSI27)	Khomenko A.....	P1.11 (01PCSI12), P1.50 (01NNPT01)
Ivashchenko L.....	P1.23 (01PCSI27)	Khomenko K.....	P1.50 (01NNPT01)
Ivashchenko O.....	O3.9 (04NB10)	Khoverko Yu.N.....	O5.10 (04NESP11)
Ivashchenko V.I.....	P1.41 (01FNC16)	Khrypunov G.....	P2.7 (02NTF01), O5.9 (03NE11)
Ivasiv V.....	P1.30 (01PCSI35)	Khrypunova A.....	P2.7 (02NTF01)
Izai V.....	P1.19 (01PCSI22)	Khudobina O.....	P1.13 (01PCSI14)
J		Khyzhnya Ya.....	P1.50 (01NNPT01)
Jacquemin M.....	O2.5 (02NTF05)	Kienle L.....	O2.8 (01FNC07)
Jarek M.....	O3.9 (04NB10)	Kierczynski K.....	P2.47 (02MAN12)
Juliandri.....	O4.16 (03NNSA15)	Kim-Ngan N.-T.H.....	O1.17 (01PCSI31)
Jurchenko D.....	P2.19 (02NTF18)	Kirian I.M.....	O3.4 (01NNPT11), P1.42 (01FNC18)
K		Kirichenko A.N.....	O3.4 (01NNPT11)
Kabbara H.....	O4.3 (01NNPT05)	Kirichenko M.....	P2.7 (02NTF01)
Kageyama K.....	P4.19 (04NB03)	Kirys V.V.....	P2.2 (01NNPT08)
Kaidas V.....	O1.3 (01NNPT04)	Kizilova N.....	O3.11 (04NB23)
Kalandadze L.....	P1.10 (01PCSI11)	Klápšťová A.....	O3.7 (04NB01)
Kalantaryan O.....	P2.43 (02MAN06)	Klepko V.....	P3.41 (03NNSA33)
Kalinichenko A.I.....	P1.4 (01PCSI04)	Klepko V.V.....	P3.43 (03NNSA35)
Kalinkevych O.....	O3.9 (04NB10)	Klimchuk D.A.....	P3.20 (03NNSA08)
Kalita V.I.....	P1.32 (01FNC01)	Klimchyk O.....	P4.33 (04NB22)
Kamrani M.....	P3.19 (03NNSA07)	Klivenko A.....	P3.36 (03NNSA27) P4.31 (04NB20)
Kaniukov E.....	P3.10 (02MFPM08)	Klochko N.P.....	P2.7 (02NTF01)
Kanyukov E.....	P4.32 (04NB21)	Kobylinska L.I.....	P4.22 (04NB08)
Kara H.....	O4.5 (03CBN12)	Kogdas M.G.....	O4.11 (04NB31)
Karabanova L.V.....	P3.42 (03NNSA34)	Kolesnyk M.....	P4.16 (03NE18)
Karapetrov G.....	O5.1	Kolesnyk M.M.....	O3.5 (02MAN05)
Kargin N.....	O3.6 (04NESP18)	Kolinko S.....	P2.9 (02NTF06)
Karpez M.....	P1.35 (01FNC06)	Koltunowicz T.N.....	P3.44 (03NNSA36) P2.19 (02NTF18)
Kasperovich A.....	P1.29 (01PCSI34)	Kolupaev I.N.....	P3.52 (03CBN07)
Katashinskii A.S.....	P4.7 (03NE04)	Kolyadina E.....	P1.25 (01PCSI29)
Kero N.....	O2.17 (03CBN13)	Komanicky V.....	O3.1, P4.50 (04NESP20)
Khalameida S.....	P1.21 (01PCSI25), P1.30 (01PCSI35), P1.14 (01PCSI16)	Komarov F.F.....	P2.30 (02NTF34), P1.44 (01FNC20)
Khamitova T.O.....	P3.31 (03NNSA22)	Komlev D.I.....	P1.32 (01FNC01)
Khamula N.....	P3.30 (03NNSA21)	Komlev V.S.....	P1.32 (01FNC01)
Khan S.....	P3.14 (03NNSA01)	Konakova R.....	P1.25 (01PCSI29)
Kharchenko A.P.....	P3.7 (02MFPM05), P3.6 (02MFPM04)	Konakova R.V.....	P1.5 (01PCSI05)
Kharmouche A.....	P3.12	Konarski P.....	P1.31 (01PCSI36), P2.28 (02NTF32), P2.8 (02NTF04), P1.44 (01FNC20)
Khmara A.N.....	P3.2 (02MAN15), P2.48 (02MAN13), P3.1 (02MAN14)	Konchenkov V.....	P4.47 (04NESP15)
Kholevchuk V.....	P1.25 (01PCSI29)	Kondrakhova D.M.....	P2.35 (02NTF39)

Kondratenko O.	P1.15 (01PCSI17), P1.26 (01PCSI30)	Kryuchkov S.V.	P4.4 (03CBN11), P4.2 (03CBN09)
Kononenko S.	P2.43 (02MAN06)	Kublanovsky V.	P1.18 (01PCSI21)
Konstantinov S.V.	P1.44 (01FNC20)	Kudaibergen G.	P3.31 (03NNSA22)
Kopach G.	O5.9 (03NE11)	Kudaibergenov S.	P3.36 (03NNSA27), P3.46 (03NNSA38)
Kopach V.	P2.7 (02NTF01)	Kuech T.	O3.6 (04NESP18)
Kordyuk A.	O2.11 (04NESP05)	Kukhareno O.	O5.7 (02MAN09)
Kornich G.V.	P1.20 (01PCSI23)	Kukla A.	P3.29 (03NNSA19)
Kormienko N.E.	O3.4 (01NNPT11)	Kulikov A.	P4.5 (03CBN15)
Kormiienko V.	O3.9 (04NB10)	Kulikov S.	O3.6 (04NESP18)
Korniyushchenko A.S.	P2.17 (02NTF16)	Kulyk B.	P3.35 (03NNSA26)
Korsun V.	P2.7 (02NTF01)	Kumar A.	O5.4 (02NTF19), P1.6 (01PCSI06)
Korzh I.A.	P2.18 (02NTF17)	Kumar S.	P3.49 (03CBN03), P4.44 (04NESP12)
Kosemen A.	P4.53	Kun'kova Z.	P2.25 (02NTF25)
Kosminska Yu.	O1.6 (02NTF26)	Kunitskaya L.	P4.33 (04NB22)
Kost Y.	O3.6 (04NESP18)	Kuo W.-S.	O4.15 (03CBN01)
Kost Ya.	P4.5 (03CBN15)	Kurbatov D.	P4.46 (04NESP14)
Kosyak V.	P4.16 (03NE18)	Kurbatov D.I.	P2.49 (03NE17), P2.10 (02NTF07)
Kosyak V.V.	O3.5 (02MAN05)	Kus M.	O5.14 (03NNSA39)
Koval I.	P1.14 (01PCSI16)	Kúš P.	P1.19 (01PCSI22)
Koval' S.V.	P1.43 (01FNC19)	Kutuzau M.	P3.10 (02MFPM08), P4.32 (04NB21)
Kovalchenko A.	P1.53	Kutuzova A.	P1.51 (01NNPT02)
Kovteba D.	P1.35 (01FNC06)	Kuzema O.	P1.3 (01PCSI03)
Kovtuneneko V.S.	P2.9 (02NTF06)	Kuzema P.	P1.3 (01PCSI03)
Koysuren O.	O5.14 (03NNSA39)	Kuzma O.	P1.27 (01PCSI32)
Kozak A.	P1.23 (01PCSI27)	Kuzmenko A.	P2.19 (02NTF18)
Kozak C.	P2.46 (02MAN11)	Kuznetsov D.	O1.12
Koziarskyi D.P.	P1.24 (01PCSI28)	Kuznetsova M.Ya.	P3.28 (03NNSA18)
Koziarskyi I.P.	P1.24 (01PCSI28)	Kuzyk O.	O2.16 (01NNPT06)
Kozik Ye.	P4.23 (04NB09)	Kvasnina A.V.	P3.11 (02MFPM09)
Kozlovskiy A.	P3.10 (02MFPM08), P4.32 (04NB21)	Kvitnitskaya O.E.	O4.8 (01PCSI37)
Kozonushchenko O.	O5.7 (02MAN09)	Kylyshkanov M.K.	P1.33 (01FNC02)
Krasil'nikov V.V.	P3.2 (02MAN15), P2.48 (02MAN13), P3.1 (02MAN14)		
Krasinskyi V.	P3.30 (03NNSA21)		
Kravchenko Ya.	P1.33 (01FNC02), P1.54 (01PCSI09)		
Kravchenko Ya.O.	P1.39 (01FNC13)		
Krivoruchko V.N.	P3.8 (02MFPM06)		
Krivtsov V.	P3.38 (03NNSA29)		
Krupa M.M.	P1.47 (01PISERE01)		
Krupska M.	O1.17 (01PCSI31)		
Krymets G.	P3.4 (02MFPM02)		
Kryshstal A.P.	P2.11 (02NTF08), P2.14 (02NTF12)		
Kryuchkov S.	P4.47 (04NESP15)		
		L	
		Lakhnik A.M.	O3.4 (01NNPT11), P1.42 (01FNC18)
		Lamonova K.	P2.16 (02NTF15), O4.12 (02NTF30)
		Larkin M.	P3.24 (03NNSA12)
		Latyshev V.M.	P2.17 (02NTF16)
		Lavysh D.	P1.29 (01PCSI34)
		Lazarenko O.	O2.15 (03NNSA30)
		Lazari E.	O1.3 (01NNPT04)

Lebedev E.V.....	P3.20 (03NNSA08)	Maksimchuk P.	P4.45 (04NESP13)
Lebedynskiy I.....	P2.29 (02NTF33)	Maksymchuk S.V.	P3.43 (03NNSA35)
Lebedynskiy I.L.	P1.33 (01FNC02)	Makushko P.	P2.12 (02NTF09)
Lesnikov V.....	P2.25 (02NTF25)	Makheyeva I.	P4.7 (03NE04)
Liakh-Kaguy N.S.	O5.10 (04NESP11)	Malkoch M.	P3.45 (03NNSA37)
Liashenko O.	P2.21 (02NTF21)	Malynych S.Z.	O3.10 (04NESP06)
Lisnyak V.....	P1.17 (01PCSI19), P1.2 (01PCSI02)	Malysheva T.	P3.17 (03NNSA05)
Lisovenko M.	P2.28 (02NTF32)	Malyukin Yu.....	P4.45 (04NESP13)
Lisovenko M.O.	P2.8 (02NTF04), P1.44 (01FNC20)	Malyutina-Bronskaya V.P.	P2.23 (02NTF23)
Litvinova A.	04.2 (02MFPM10)	Mamonov V.I.....	P1.32 (01FNC01)
Lobko E.....	P3.41 (03NNSA33)	Mamykin A.....	P3.29 (03NNSA19)
Lobko Eu.....	P4.48 (04NESP16)	Maniecki T.....	O5.8 (03NE07)
Lobko Ye.	P3.23 (03NNSA11)	Mariotti D.	O4.3 (01NNPT05)
Loboda V.B.....	P2.13 (02NTF10)	Markin Y.	P2.25 (02NTF25)
Lohvynov A.M.....	P2.38 (02NTF42)	Maslak M.	P2.7 (02NTF01)
Lotfi A.....	P4.18 (04NB02)	Matiyuk I.	P1.25 (01PCSI29)
Luchaninov A.....	P1.40 (01FNC15)	Matsui L. Yu.....	P3.50 (03CBN05)
Luhin V.	P3.32 (03NNSA23)	Matveeva L.	P1.25 (01PCSI29)
Luhin V.G.	P3.32 (03NNSA23)	Matyushov V.F.	P3.20 (03NNSA08)
Luka G.	O2.18 (03NE01)	Matzui L.	O2.15 (03NNSA30)
Lukianova O.A.....	P3.2 (02MAN15), P2.48 (02MAN13), P3.1 (02MAN14)	Mediukh N.R.	P1.41 (01FNC16)
Lupan O.	O2.7 (01FNC05), O1.3 (01NNPT04)	Melezhik E.....	O2.4 (02NTF29)
Lusakowska E.	O2.18 (03NE01)	Melnichenko M.....	P4.6 (03CBN16)
Lyashenko Yu.	P2.21 (02NTF21)	Mercier F.	O2.5 (02NTF05)
Lykah V.A.....	P2.18 (02NTF17)	Merkotan K.K.....	P3.3 (02MAN16)
Lysenkov E.	P3.41 (03NNSA33)	Meylehov A.A.	P1.45 (01FNC21)
Lysov V.I.	P3.50 (03CBN05)	Meylekhov A.	P1.49 (01PISERE03)
Lytovchenko S.V.....	P1.45 (01FNC21)	Mierczynski P.	O5.8 (03NE07)
Lyubchanskii I.....	O2.13	Mika T.	P2.26 (02NTF27)
Lyubov V.	P2.7 (02NTF01)	Mikac L.	P2.1 (01NNPT07)
Lyutyy T.V.....	P3.11 (02MFPM09)	Mikhailov N.....	O2.4 (02NTF29)
M		Mikhaylov S.	P3.21 (03NNSA09)
Maistruk E.V.....	P1.24 (01PCSI28)	Mikheenko P.....	O2.5 (02NTF05), O1.5 (02NTF02), O3.3 (03NE05)
Maizelis A.A.	P2.15 (02NTF13)	Mikoliunaite L.	P4.34 (04NB28), O2.14 (01FNC17)
Maj P.....	P2.44 (02MAN07), P2.44 (02MAN07)	Mikoliūnaite L.	P4.35 (04NB29)
Makarchuk O.V.....	P3.4 (02MFPM02)	Milenin V.....	P1.5 (01PCSI05)
Makhanov K.....	O4.13 (04NESP08)	Milenin V.V.....	P1.5 (01PCSI05)
Makhanov K.M.	O1.15 (02NTF11)	Milovanov Y.S.....	O4.11 (04NB31)
Makogon I.	P2.12 (02NTF09)	Minenkov A.A.	P2.11 (02NTF08), P2.14 (02NTF12)
Maksakova O.	P1.54 (01PCSI09), P1.9 (01PCSI10)	Mischanchuk O.V.....	P1.17 (01PCSI19)
		Mishchenko O.....	P4.23 (04NB09)
		Mishra Y.K.	O2.7 (01FNC05), O2.8 (01FNC07)
		Mitin V.	P1.25 (01PCSI29)
		Mitina N.....	P3.24 (03NNSA12)

Mizera J..... P2.44 (02MAN07),
 P2.44 (02MAN07)
 Mobarhan G. P1.34 (01FNC03)
 Mollatt H.J..... O1.5 (02NTF02)
 Moravskiy V..... P3.28 (03NNSA18)
 Morozovich V. P2.21 (02NTF21)
 Murakhovski A.V..... P3.52 (03CBN07)
 Murzagulova K..... P4.31 (04NB20)
 Musil J..... O2.12
 Mussabayeva B. P4.31 (04NB20)
 Mygushchenko R..... O5.9 (03NE11)
 Mykhalichko V..... O2.19 (03NE13)
 Mykytyuk Z..... P4.26 (04NB13)
 Myronyuk I..... P3.29 (03NNSA19)
 Mysiura I. P2.43 (02MAN06)

N

Nagirnyak S.V..... P2.6 (01NNPT13)
 Naidyuk Yu.G. O4.8 (01PCSI37)
 Narimani-Rad M. P4.18 (04NB02)
 Naseri N. P4.12 (03NE12),
 P4.13 (03NE14)
 Nasir M. O4.16 (03NNSA15)
 Nasrullah R.A..... O4.16 (03NNSA15)
 Navas M.P..... O2.17 (03CBN13)
 Nebesna Yu. P1.30 (01PCSI35)
 Nebesnyi R..... P1.30 (01PCSI35)
 Nedelko M.I. P2.2 (01NNPT08)
 Nedilko S..... P3.33 (03NNSA24)
 Nedilko S.A..... P2.42 (02MAN04)
 Nedilko S.G..... P2.42 (02MAN04)
 Neumaier D. P4.5 (03CBN15)
 Nevar A. O4.3 (01NNPT05),
 P2.2 (01NNPT08)
 Nikitin V. P2.7 (02NTF01)
 Nirwan V.P..... P3.45 (03NNSA37)
 Nominé A..... O4.3 (01NNPT05)
 Nosenko V..... P2.26 (02NTF27)
 Novosad V..... O3.2, P1.53
 Nuri Kursunlu A..... P4.17
 Nurkenov O.A. P3.16 (03NNSA04)
 Nurmakhanova A. P4.14 (03NE15)
 Nurmakhanova A.K..... P2.20 (02NTF20)
 Nyemchenko U.S. P1.45 (01FNC21)
 Nykypanchuk D..... O1.1
 Nykyryuk L. P1.22 (01PCSI26)

O

Obali A.Yi..... P3.48 (03CBN02)
 Odnodvoret's L.V. P2.36 (02NTF40),
 P4.49 (04NESP19)
 Oksanich A.P. O4.11 (04NB31)
 Okun'yev A.G. P1.19 (01PCSI22)
 Oleshko O. P4.23 (04NB09),
 P4.36 (04NB30),
 O3.7 (04NB01)
 Omar N. P3.47 (04NB27)
 Omel'chuk A.O..... P2.41 (02MAN03)
 Omelyanenko V..... P1.52 (01NNPT03)
 Onishchenko S. P1.15 (01PCSI17),
 P1.26 (01PCSI30)
 Opanasyuk A..... P4.16 (03NE18),
 P4.46 (04NESP14)
 Opanasyuk A.S. P2.49 (03NE17),
 O3.5 (02MAN05),
 P2.10 (02NTF07)
 Opanasyuk N.M..... P2.10 (02NTF07)
 Opielak M. P1.44 (01FNC20)
 Orhan D. P3.37 (03NNSA28)
 Ostapenko R..... P2.34 (02NTF38)
 Ostroverh A. P1.35 (01FNC06)
 Ostrovskii I.P. O5.10 (04NESP11)
 Ota M. O5.2
 Otchenashko O..... P2.7 (02NTF01)
 Otto M..... P4.5 (03CBN15)
 Ovsienko L.V..... P3.50 (03CBN05)
 Ozcan F..... O5.11 (04NB17),
 P3.47 (04NB27),
 O5.13 (04NB26),
 P4.29 (04NB18),
 P4.1 (03CBN08),
 P4.28 (04NB24),
 O4.5 (03CBN12),
 O5.6 (03CBN14)
 Ozmen M. P4.21 (04NB05)
 Ozturk Ya..... O4.14 (02MAN10)
 Özyilmaz E. O2.20 (03NNSA40)

P

Pakiela Z. P2.44 (02MAN07)
 Paklonskaitė I..... P4.34 (04NB28)
 Panchuk R..... P4.22 (04NB08)
 Parafinyuk D. P1.29 (01PCSI34)

Parkhomenko A.A.	P3.2 (02MAN15), P2.48 (02MAN13), P3.1 (02MAN14)	Potera P.	O3.10 (04NESP06), O2.18 (03NE01)
Parkhomenko I.N.	P2.30 (02NTF34)	Prikhna T.	P2.52 (04NESP07), O2.11 (04NESP05)
Parlak U.	P4.53	Prishchepenko D.	P3.32 (03NNSA23)
Pas'ko M.	P2.16 (02NTF15)	Prishchepenko D.V.	P3.32 (03NNSA23)
Pashkevich Yu.	P2.16 (02NTF15)	Pritchyn S.E.	O4.11 (04NB31)
Pashkevych Yu.	O4.12 (02NTF30)	Prokopchuk N.	P3.32 (03NNSA23)
Pas'ko M.	O4.12 (02NTF30)	Prokopchuk N.R.	P3.32 (03NNSA23), P3.27 (03NNSA17)
Pavlovska O.	O2.19 (03NE13)	Prokopchuk O.	P4.51 (04NESP21)
Pazukha I.	P2.13 (02NTF10)	Prokopenko O.	P2.3 (01NNPT09)
Pehlivan E.	O4.9 (04NB15)	Prokopov O.I.	P3.50 (03CBN05)
Peleshchak R.	O1.4 (01PCSI24), O2.16 (01NNPT06)	Protsenko I.Yu.	P2.31 (02NTF35), P2.36 (02NTF40)
Peplinska B.	O3.9 (04NB10)	Protsenko S.	P2.29 (02NTF33)
Perekrestov V.	O1.6 (02NTF26)	Protsenko S.I.	P2.38 (02NTF42)
Perekrestov V.I.	P2.17 (02NTF16)	Prudnikov A.	P2.16 (02NTF15), O4.12 (02NTF30)
Perpelkin S.S.	P1.4 (01PCSI04)	Prystopiuk O.	O3.6 (04NESP18)
Pererva V.I.	P1.37 (01FNC10)	Przybylski M.	O2.3
Perets A.	P2.23 (02NTF23)	Pshenychnyi R.	P2.41 (02MAN03)
Permyakova N.M.	P4.33 (04NB22)	Pshyk A.	P2.33 (02NTF37)
Petlitsky A.N.	P2.45 (02MAN08)	Pud A.	P3.29 (03NNSA19), P3.21 (03NNSA09)
Petrus R.Yu.	P1.48 (01PISERE02)	Pylypenko O.V.	P1.37 (01FNC10)
Petrushenko S.	P1.12 (01PCSI13)	Pytiuk O.	P2.51 (03NE03)
Pilipenko A.O.	P3.33 (03NNSA24)		
Pilipenko V.	P1.16 (01PCSI18)	Q	
Pleiko K.	O1.8 (04NB16)	Qureishy T.H.	O2.5 (02NTF05), O1.5 (02NTF02)
Pogorenko Y.V.	P2.41 (02MAN03)		
Pogorielov M.	O3.9 (04NB10), P4.23 (04NB09), P4.36 (04NB30), O3.7 (04NB01)	R	
Pogrebnyak A.D.	P1.54 (01PCSI09), P1.31 (01PCSI36), P2.33 (02NTF37)	Radishevskiy M.	P4.5 (03CBN15)
Pojda V.P.	P1.8 (01PCSI08)	Radkevich V.Z.	P1.17 (01PCSI19)
Poletaev N.	O1.8 (04NB16)	Radyuk A.A.	P1.32 (01FNC01)
Ponomar V.P.	P3.5 (02MFPM03)	Rahimi-Nasrabadi M.	O5.3
Pons M.	O2.5 (02NTF05)	Rajan S.	P3.14 (03NNSA01), O5.4 (02NTF19)
Popov A.	O2.14 (01FNC17)	Rajmohan I.J.	O4.4 (03CBN04)
Popov C.A.	P4.2 (03CBN09)	Ramanaviciene A.	P4.34 (04NB28), O2.14 (01FNC17), P3.40 (03NNSA32)
Porada O.	P1.23 (01PCSI27)	Ramanavicienė A.	P4.35 (04NB29)
Porohnya O.	P4.48 (04NESP16)	Ramanavicius A.	P4.34 (04NB28), O2.14 (01FNC17),
Postelnyk A.A.	P1.49 (01PISERE03), P1.45 (01FNC21)		
Postica V.	O2.7 (01FNC05), O1.3 (01NNPT04)		
Postolnyi B.O.	P2.24 (02NTF24), P2.8 (02NTF04)		

	O1.8 (04NB16), P3.40 (03NNSA32)	Samsonik A.L.	P1.7 (01PCSI07)
Ramanavičius A.	P4.35 (04NB29)	Savchenko A.S.	P3.8 (02MFPM06)
Rashad M.M.	P4.52, P3.13	Savchuk M.	O1.8 (04NB16)
Rayan D.A.	P4.52, P3.13	Savotchenko S.E.	P3.1 (02MAN14)
Rebouta L.	P2.24 (02NTF24)	Savvin A.	P2.3 (01NNPT09)
Red'ko S.M.	P1.5 (01PCSI05)	Schenderovsky V.	P1.22 (01PCSI26)
Red'ko R.	P1.5 (01PCSI05)	Schütt F.	O2.7 (01FNC05), O2.8 (01FNC07)
Reshetnyak O.	P1.40 (01FNC15)	Seliverstova E.	P4.14 (03NE15)
Revenko Yu.	O2.11 (04NESP05)	Seliverstova E.V.	P4.3 (03CBN10)
Revo S.	P4.6 (03CBN16)	Semchenko A.	P2.23 (02NTF23)
Revutska L.	P2.27 (02NTF31)	Semen'ko M.	P2.26 (02NTF27), P2.34 (02NTF38)
Riabov S.	P3.23 (03NNSA11)	Seminko V.	P4.45 (04NESP13)
Riekstina U.	O1.8 (04NB16)	Sen N.	P4.1 (03CBN08)
Rizak V.	P4.50 (04NESP20)	Seneta M.	O1.4 (01PCSI24)
Rodionov V.V.	P4.54 (04NESP24)	Serdyuk I.	P1.35 (01FNC06)
Rodionova V.	O4.2 (02MFPM10) P4.54 (04NESP24)	Serikov T.	P4.3 (03CBN10)
Rodnichenko A.	P4.36 (04NB30)	Seti J.	P2.51 (03NE03), P2.50 (03NE02)
Rogalski P.	P2.46 (02MAN11)	Sevostianov M.A.	P1.32 (01FNC01)
Rogoz V.	P2.19 (02NTF18)	Shabelnyk T.M.	P2.35 (02NTF39)
Romanov I.A.	P2.30 (02NTF34)	Shabelnyk Yu.M.	P3.7 (02MFPM05), P3.6 (02MFPM04)
Roshchupkin A.	P4.24 (04NB11)	Shahok Zh.S.	P3.32 (03NNSA23)
Roshdy R.	P4.52	Shakhova I.	P2.19 (02NTF18)
Ruban A.	P4.51 (04NESP21)	Shamardin A.V.	P2.49 (03NE17)
Rud A.D.	O3.4 (01NNPT11), P1.42 (01FNC18)	Shamis M.	P2.12 (02NTF09)
Rudenko M.	P2.4 (01NNPT10)	Shapovalov A.	P2.52 (04NESP07)
Rukovichnikov A.	P2.25 (02NTF25)	Shapovalov A.P.	O2.11 (04NESP05)
Rybalchenko N.	P3.23 (03NNSA11)	Sharay I.V.	P1.47 (01PISERE01)
Rybalko Yu.	O1.6 (02NTF26)	Shashok Z.	P3.32 (03NNSA23)
Rybalko Yu.O.	P2.17 (02NTF16)	Shashok Zh.S.	P3.27 (03NNSA17)
S		Shaternik V.E.	P2.52 (04NESP07)
Sabbagh Alvani A.	P4.12 (03NE12), P4.13 (03NE14)	Shelest I.V.	P1.31 (01PCSI36)
Safi M.	P1.34 (01FNC03)	Shevchenko V.I.	P1.41 (01FNC16)
Safriuk N. V.	(01PCSI20)	Shima T.	O2.1
Safriuk N.V.	(01PCSI20)	Shimizu M.	P4.19 (04NB03)
Sagahianov I.	O2.15 (03NNSA30)	Shipkova I.G.	P3.9 (02MFPM07)
Sahraoui B.	P3.35 (03NNSA26)	Shirsat M.	P3.40 (03NNSA32)
Sai P.	O1.16 (02NTF03)	Shkurdoda Yu.	P2.13 (02NTF10)
Saito H.	O1.2 (04NESP17)	Shkurdoda Yu.O.	P3.7 (02MFPM05), P3.6 (02MFPM04), P2.31 (02NTF35)
Saladukha V.	P2.23 (02NTF23)	Shpatakova R.	P2.5 (01NNPT12)
Salimi R.	P4.13 (03NE14)	Shpetnyi I.	P4.16 (03NE18)
Saliy Ya.	P1.22 (01PCSI26)	Shpetnyi I.O.	P2.35 (02NTF39)
Saltykov D.I.	P2.31 (02NTF35)	Shportko K.V.	P2.27 (02NTF31)
Sameie H.	P4.12 (03NE12)	Shpyrka I.	P1.30 (01PCSI35)

Shree S.	O2.8 (01FNC07)	Strel'nitskij V.	P1.40 (01FNC15)
Shtyka O.	O5.8 (03NE07)	Strel'nitskij V.E.	P1.4 (01PCSI04)
Shumskaya A.	P3.10 (02MFPM08), P4.32 (04NB21)	Strikhanov M.	O3.6 (04NESPI8)
Shurigin F.	P4.5 (03CBN15)	Stronski A.V.	P2.27 (02NTF31)
Shurygin F.	O3.6 (04NESP18)	Strutynska N.	P3.33 (03NNSA24)
Shustakova G.	P1.53	Studenyak I.P.	P1.19 (01PCSI22)
Shvedov S.V.	P2.45 (02MAN08)	Suberliak S.A.	P3.28 (03NNSA18)
Shydlovska O.A.	O4.10 (04NB25)	Suberlyak O.	P3.30 (03NNSA21)
Shylenko O.	P4.50 (04NESP20)	Suchikova Ya.O.	P1.15 (01PCSI17), P1.26 (01PCSI30)
Shynkarenko V. V.	(01PCSI20)	Sukhodub L.	O3.8 (04NB07), O1.13
Shynkarenko V.V.	(01PCSI20)	Sukhodub L.B.	P4.25 (04NB12), P4.24 (04NB11)
Shypylenko A.	P2.28 (02NTF32)	Sukhodub L.F.	P4.25 (04NB12), P4.27 (04NB14), P4.24 (04NB11)
Shyrokorad D.V.	P1.20 (01PCSI23)	Sukhov V.N.	P1.7 (01PCSI07)
Sidsky V.	P2.23 (02NTF23)	Sushynskiy O.	P4.26 (04NB13)
Simoões S.	P1.54 (01PCSI09)	Suvorov O.Yu.	P2.52 (04NESP07)
Sinelnik A.V.	P2.18 (02NTF17)	Sydorchuk V.	P1.21 (01PCSI25), P1.30 (01PCSI35), P1.14 (01PCSI16)
Singh P.	O5.4 (02NTF19), P1.6 (01PCSI06)		
Singh V.	P4.44 (04NESP12)		
Sirohi K.	P4.44 (04NESP12)		
Sizov F.	O1.14		
Skarpalezos L.	O4.7 (01PCSI15)		
Skorb Ekaterina V.	P1.36 (01FNC09)		
Skorohyd N.	P4.22 (04NB08)		
Skryl O.I.	P1.12 (01PCSI13)		
Skubiszewska-Zięba J.	P1.21 (01PCSI25)		
Slepets A.A.	P2.42 (02MAN04)		
Slienko O.	P3.18 (03NNSA06)		
Smazna D.	O2.7 (01FNC05), O2.8 (01FNC07)		
Smirnov I.	O2.6 (01FNC04)		
Smyrnova K.V.	P1.33 (01FNC02), P1.39 (01FNC13)		
Sobol' O.V.	O1.9 (01FNC11), P1.45 (01FNC21)		
Sobol V.O.	P3.52 (03CBN07)		
Sobol' O.V.	P1.49 (01PISERE03)		
Solodovnik O.	P4.23 (04NB09)		
Solodukha V.A.	P2.45 (02MAN08)		
Solonar I.	P1.11 (01PCSI12)		
Soni R.K.	O2.17 (03CBN13)		
Şontea V.	O2.7 (01FNC05)		
Souri A.	P1.34 (01FNC03)		
Sporyagin E.	O1.11 (03NNSA13)		
Srebniuk P.A.	P1.45 (01FNC21)		
Starchevskyy V.	P1.14 (01PCSI16)		
Stoika R.	P4.22 (04NB08)		
Stolbovoy V.A.	P1.49 (01PISERE03)		
		T	
		Taha T.A.	P3.13
		Taner B.	P4.17
		Tarasenko N.	O4.3 (01NNPT05)
		Tarasenko N.N.	P2.2 (01NNPT08)
		Tarasenko N.	O4.3 (01NNPT05), O2.17 (03CBN13)
		Tarasenko N.V.	P2.2 (01NNPT08)
		Tatur H.	P1.16 (01PCSI18)
		Tazhbayev E.M.	P3.31 (03NNSA22)
		Temiryazeva M.	P2.25 (02NTF25)
		Terekhov A.V.	O4.8 (01PCSI37)
		Teselko P.	P2.26 (02NTF27), P2.34 (02NTF38), P4.6 (03CBN16)
		Tkach M.	P2.51 (03NE03), P2.50 (03NE02)
		Tkach O.P.	P2.36 (02NTF40)
		Toleutay G.	P3.36 (03NNSA27)
		Tolmachov M.	O5.7 (02MAN09)
		Tolstov A.	P3.20 (03NNSA08)
		Tolstov A.L.	P3.17 (03NNSA05)
		Tovstukha K.V.	P3.31 (03NNSA22)
		Tripathi A.	P3.49 (03CBN03)

- Trofim V. O2.7 (01FNC05)
 Trofymenko P. P1.11 (01PCSI12)
 Troshchenko D. P1.11 (01PCSI12)
 Trotsenko S. P3.24 (03NNSA12)
 Troyanchuk I. P3.44 (03NNSA36)
 Tsaregradskaya T.L. P3.50 (03CBN05)
 Tupitsyna I. P4.45 (04NESP13)
 Tur Y. O2.18 (03NE01)
- U**
- Ucan H.I. P3.48 (03CBN02)
 Ulasevich Sviatlana A. ... P1.36 (01FNC09)
 Uriu Yo. P4.19 (04NB03)
 Uyar Arpaci P. P4.28 (04NB24),
 P3.47 (04NB27),
 O5.13 (04NB26)
- Ů**
- Ůnver Ya. O4.9 (04NB15)
 Ůrgen M. P1.40 (01FNC15)
- V**
- Vakaliuk A. P3.51 (03CBN06)
 Vakaliuk A.V. P1.17 (01PCSI19)
 Valko N. P1.29 (01PCSI34)
 Vambol S. P1.15 (01PCSI17),
 P1.26 (01PCSI30)
 Vambol V. P1.15 (01PCSI17),
 P1.26 (01PCSI30)
 Vasil'evskii I. O3.6 (04NESP18)
 Vasiliev T. O5.7 (02MAN09)
 Vasiljev A. O5.7 (02MAN09)
 Vasilyeva L.V. P1.43 (01FNC19)
 Vasylechko L. O2.19 (03NE13)
 Vasyliiev A. P4.5 (03CBN15),
 O3.6 (04NESP18)
 Vasyliiev R. P4.36 (04NB30)
 Vasyliiev V. P1.40 (01FNC15)
 Velusamy T. O4.3 (01NNPT05)
 Venger E. P1.25 (01PCSI29)
 Verbytska T. P2.12 (02NTF09)
 Veretennikova I.I. P3.9 (02MFPM07)
 Vezyr F. P4.40 (04NESP04)
 Vikhrenko V. P4.15 (03NE16),
 O4.7 (01PCSI15),
 P3.39 (03NNSA31)
- Virt I. O3.10 (04NESP06),
 O2.18 (03NE01)
 Virt V. P4.40 (04NESP04)
 Vishneuski K. P3.27 (03NNSA17)
 Vistak M. P4.26 (04NB13),
 P4.40 (04NESP04)
 Viter R. O1.8 (04NB16),
 P3.40 (03NNSA32)
 Vodseďálková K. P4.36 (04NB30),
 O3.7 (04NB01)
 Voitenko T. P3.33 (03NNSA24)
 Voitenko T.A. P2.42 (02MAN04)
 Voitsekhivska O. P2.51 (03NE03),
 P2.50 (03NE02)
 Volkov A. P1.28 (01PCSI33)
 Volkov S.O. P4.49 (04NESP19)
 Volodin D. P1.52 (01NNPT03)
 Volokhin V. P4.9 (03NE08)
 Voloshyn O. P3.38 (03NNSA29)
 Vorobiov S.I. P2.35 (02NTF39)
 Voronovic J. P4.34 (04NB28)
 Vovchenko L. O2.15 (03NNSA30)
 Vovk O. P4.45 (04NESP13)
 Vozniak A. P3.25 (03NNSA14)
 Voznyak A. P3.25 (03NNSA14)
 Voznyak Yu. P3.25 (03NNSA14)
 Voznyi A. P4.16 (03NE18),
 P4.10 (03NE09)
 Vukadinovic N. O4.4 (03CBN04)
 Vyas A. P3.14 (03NNSA01),
 O5.5 (02NTF28)
 Vysloužilová L. O3.7 (04NB01)
 Vysotckiy I.U. P4.24 (04NB11)
- W**
- Wang Z. P4.5 (03CBN15)
 Wisz G. P1.22 (01PCSI26),
 O3.10 (04NESP06)
 Wojkiewicz J.-L. P3.21 (03NNSA09)
 Wolff N. O2.8 (01FNC07)
- Y**
- Yakhnevych M.Ya. P4.42 (04NESP09)
 Yakovlev Y. P4.48 (04NESP16),
 P3.41 (03NNSA33)
 Yakubovskaya A. P4.45 (04NESP13)
 Yamaguchi K. P4.19 (04NB03)

Yarici I.	O4.14 (02MAN10)	Zav'yalov D.	P4.47 (04NESP15)
Yarmoshchuk Ye.	P2.26 (02NTF27)	Zav'yalov D.V.	P4.4 (03CBN11)
Yatsymyrskyi A.	P1.2 (01PCSI02)	Zayets V.	O1.2 (04NESP17)
Yavorskyi R.	P1.22 (01PCSI26)	Zbigniew Pakiela Z.	P2.44 (02MAN07)
Yavorskyi Ya.	P1.22 (01PCSI26)	Zdorovets M.	P3.10 (02MFPM08), P4.32 (04NB21)
Yavuz E.	O5.12 (04NB06)	Zdunek J.	P2.44 (02MAN07), P2.44 (02MAN07)
Yazicigil Z.	P4.20 (04NB04)	Zeinidenov A.K.	P2.20 (02NTF20), P3.16 (03NNSA04)
Yermaganbetov K.	O1.15 (02NTF11), O4.13 (04NESP08)	Zelenina I.S.	P2.11 (02NTF08)
Yeromenko Yu.	P4.16 (03NE18)	Zelenko M.	P3.33 (03NNSA24)
Yessimbek A.M.	P4.39 (04NESP03)	Zenker M.	P2.47 (02MAN12)
Yessimbek A.M.	P4.38 (04NESP02)	Zhadan D.	P2.7 (02NTF01)
Yefremenko V.	P1.53	Zheltonozhskaya T.	P4.33 (04NB22)
Yildiz E.	P3.15 (03NNSA02)	Zhelunicina E.	P3.9 (02MFPM07)
Yildiz S.	P4.30 (04NB19), P4.21 (04NB05)	Zhilenko T.	P2.4 (01NNPT10)
Yilmaz M.	O2.20 (03NNSA40)	Zhollybekov B.	P1.39 (01FNC13)
Yuasa S.	O1.2 (04NESP17)	Zholobak N.M.	O4.10 (04NB25)
Yunda A.N.	P1.31 (01PCSI36), P1.43 (01FNC19)	Zhukov A.	O1.18 (02MFPM01)
Yurkova A.	O1.10 (03NNSA03)	Zhukova V.	O1.18 (02MFPM01)
Yushchenko O.	P2.4 (01NNPT10)	Zhurenko V.	P2.43 (02MAN06)
Yushchenko O.V.	P3.26 (03NNSA16)	Zhusupov S.	P4.3 (03CBN10)
Yusupova A.	P4.23 (04NB09)	Zhygulin D.	P1.16 (01PCSI18)
Yusupova J.B.	P4.39 (04NESP03)	Zimenkovsky B.	P4.22 (04NB08)
		Zlatska A.	P4.36 (04NB30)
Z		Znamenshchykov Ya.	O3.5 (02MAN05)
Zaderko A.	P3.51 (03CBN06), P1.2 (01PCSI02)	Zubieta J.	P3.15 (03NNSA02)
Zaichenko A.	P4.22 (04NB08), P3.24 (03NNSA12)	Zubkov A.I.	O1.9 (01FNC11)
Zakharov M.	P1.50 (01NNPT01)	Zubov D.	P4.36 (04NB30)
Załęski K.	P2.8 (02NTF04)	Zukowski P.	P2.8 (02NTF04), P2.30 (02NTF34)
Zarębska K.	O4.6 (03NNSA20)	Zvereva V.	P4.45 (04NESP13)
Zaskoka A.	P2.32 (02NTF36)	Zvyagintseva A.V.	P2.37 (02NTF41)
		Zykov G.S.	P2.25 (02NTF25)