

ORGANIZERS



Ministry of Education of Belarus
Belarusian State University of Informatics and Radioelectronics



Université de la Méditerranée Aix-Marseille II



Nanyang Technological University



Professional Radio Systems



Motorola



EPAM Systems



Basic Research Foundation of Belarus

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A. A. Leshok (Belarusian State University of Informatics and Radioelectronics)

GENERAL INFORMATION

NANOMEETING-2009 is a traditional International Conference held each two years in Minsk, Belarus. The Conference has arisen from the Belarusian-French initiative and purposes to bring together scientists and engineers from around the world, who work in the fast-developing areas of nanoscience, nanotechnology, nanostructure based electronics and optoelectronics. The meeting addresses the latest results achieved in fabrication, study and application of nanosize structures. It will be in May 26-29, 2009 at the Belarusian State University of Informatics and Radioelectronics in Minsk.

Registration

The registration fee is 110 EURO. It is paid in cash in EURO or equivalently in Belarusian rubles during the registration. The fee includes a copy of the Conference Proceedings, admission to all sessions, coffee breaks, and the city sightseeing bus tour.

Attendees are checked-in at the Conference Registration Desk in the lobby of the second floor of the Building № 1 (P. Browka Str. 6) of the Belarusian State University of Informatics and Radioelectronics. It is easily reached from the subway station "Akademiya Nauk" or by bus number 100 (see the city map at the back cover of the Program). The registration starts on May 26 (Tuesday) at 8:30.

Meeting Activities

The technical program includes invited talks, oral presentations and poster session. All presentations will be in English in the Conference Hall (Building № 1, room 229) of the Belarusian State University of Informatics and Radioelectronics. Oral presentations should be not longer than 30 min for invited speakers and 15-20 min for others including 3-5 min for questions and short discussion. Audio-visual equipment is available for speakers.

The poster session will take place in the lobby nearby the Conference Hall on Wednesday, May 27. Posters may be prepared in any form and will be displayed on poster boards of 1 m × 1.5 m. All posters should be put up on the boards in the morning May 27. That day authors are requested to be present at their posters starting from 17:00. Informal comments and discussion are encouraged during the session.

On May 26 (Tuesday), the Conference participants are invited to the city sightseeing tour just after finishing of the evening session. Conference Reception is planned to be on May 28 (Thursday).

For further information contact:

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GENERAL SCHEDULE

Tuesday May 26, 2009

09:00 – 11:00 PLENARY SESSION
11:00 – 11:30 *Coffee Break*
11:30 – 13:00 PLENARY SESSION
13:00 – 14:30 *Lunch*
14:30 – 15:50 PHYSICS OF NANOSTRUCTURES
15:50 – 16:10 *Coffee Break*
16:10 – 17:50 PHYSICS OF NANOSTRUCTURES
18:00 – 20:00 *City Sightseeing Bus Tour*

Wednesday May 27, 2009

09:00 – 11:00 PHYSICS OF NANOSTRUCTURES
11:10 – 11:30 *Coffee Break*
11:30 – 13:10 PHYSICS OF NANOSTRUCTURES
13:00 – 14:30 *Lunch*
14:30 – 15:50 PHYSICS OF NANOSTRUCTURES
15:50 – 16:10 *Coffee Break*
16:10 – 17:30 PHYSICS OF NANOSTRUCTURES
17:30 – 19:00 **Poster Session**

Thursday May 28, 2009

09:00 – 10:40 CHEMISTRY OF NANOSTRUCTURES
10:40 – 11:00 *Coffee Break*
11:00 – 13:00 CHEMISTRY OF NANOSTRUCTURES
13:00 – 14:00 *Lunch*
14:00 – 15:50 NANOTECHNOLOGY
15:50 – 16:10 *Coffee Break*
16:10 – 17:30 NANOTECHNOLOGY
Conference Reception

Friday May 29, 2009

09:00 – 10:50 NANOSTRUCTURE BASED DEVICES
10:50 – 11:10 *Coffee Break*
11:10 – 12:50 NANOSTRUCTURE BASED DEVICES
12:50 GENERAL DISCUSSION AND CLOSING OF THE CONFERENCE

PROGRAM

Tuesday May 26, 2009

PLENARY SESSION

- 9:00 1. **Welcome to Nanomeeting-2009**
A. M. Rad'kov (Chairman of the National Organizing Committee, Minister of Education of Belarus)
M. Musso (Ambassador of France in Belarus)
M. P. Batura (Rector of Belarusian State University of Informatics and Radioelectronics)
- 9:30 2. NANOSCOPY: NOVEL CONCEPTS AND APPLICATION TO BIOMEDICINE
invited H. Fuchs
Westfälische Wilhelms-Universität, Münster, Germany
- 10:00 3. LASER TREATMENT OF CARBON FILMS: TOWARDS ELECTRONICS APPLICATION
invited B. K. Tay, M. Shakerzadeh
Nanyang Technological University, Singapore, Singapore
- 10:30 4. CONCENTRATION PROFILES IN HETEROEPITAXIAL NANOISLANDS
invited D. Digiuni, R. Gatti, F. Uhlik, F. Montalenti
University of Milano-Bicocca, Milan, Italy

Coffee Break

- 11:30 5. ODD-FREQUENCY PAIRING IN SUPERCONDUCTING NANOSTRUCTURES
invited A. A. Golubov
University of Twente, Enschede, The Netherlands
- 12:00 6. THE CHEMISTRY OF NANOSIZE DEFECTIVE BREAKDOWN PATH IN ULTRATHIN SiON AND HIGH-K GATE DIELECTRIC MATERIALS
invited K. L. Pey¹, X. Li¹, R. Rakesh¹, V. L. Lo¹, C. H. Tung², G. Zhang², L. J. Tang²
¹*Nanyang Technological University, Singapore*
²*Institute of Microelectronics, Singapore, Singapore*
- 12:30 7. TOWARD NANOSENSOR TECHNOLOGY: MATERIALS, METHODS AND MECHANISMS
invited A. Gurlo
Technische Universität Darmstadt, Darmstadt, Germany

Lunch

PHYSICS OF NANOSTRUCTURES

- 14:30 1. InGaP/GaAs HETEROINTERFACES STUDIED BY CROSS-SECTIONAL SCANNING TUNNELING MICROSCOPY AND THEIR IMPACT ON THE DEVICE CHARACTERISTICS
invited S. Nozaki, A. Koizumi, K. Uchida, H. Ono
University of Electro-Communications, Tokyo, Japan

- 15:00 2. ELECTROMODULATION SPECTROSCOPY OF SEMICONDUCTOR
invited NANOSTRUCTURES: III-NITRIDES AND DILUTE NITRIDES
R. Kudrawiec
Wroclaw University of Technology, Wroclaw, Poland
- 15:30 3. STRONG COUPLING OF LIGHT WITH 1D QUANTUM DOT CHAIN:
FROM RABI OSCILLATIONS TO RABI WAVES
G. Ya. Slepyan¹, Y. D. Yerchak¹, A. Hoffmann²
¹*Belarus State University, Minsk, Belarus*
²*Technische Universität Berlin, Berlin, Germany*

Coffee Break

- 16:10 4. BAND STRUCTURES OF NONHYDROGENATED SILICON
NANOWIRES
D. B. Migas
*Belarusian State University of Informatics and Radioelectronics, Minsk,
Belarus*
- 16:30 5. INVESTIGATIONS IN THE VIBRATIONAL SPECTRUM OF A
CANTOR-LAYERED CHAIN
R. Etienne
St. Anne College, Ettelbruck, Luxemburg
- 16:50 6. COULOMB GAP AND SUPERLINEAR FREQUENCY DEPENDENCE OF
RESONANCE HOPPING AC CONDUCTIVITY
M. A. Ormont, I. P. Zvyagin
Moscow State University, Moscow, Russia
- 17:10 7. NANOSIZED BOSONIC STRIPES: MANIFESTATIONS OF THEIR
QUANTUM NATURE IN TRANSITION-METAL OXIDES
A. V. Mitin
P.L. Kapitza Institute for Physical Problems RAS, Moscow, Russia
- 17:30 8. SATURABLE ABSORPTION EFFECT IN SINGLE-WALL CARBON
NANOTUBES
A. M. Nemilentsau, S. A. Maksimenko
Belarus State University, Minsk, Belarus

City Sightseeing Bus Tour

Wednesday May 27, 2009

PHYSICS OF NANOSTRUCTURES

- 9:00 1. PROCESSES IN SUPERCONDUCTOR-FERROMAGNET
invited NANOSTRUCTURES: CURRENT STATUS AND FUTURE PROSPECTS
M. Yu. Kupriyanov
Moscow State University, Moscow, Russia
- 9:30 2. RADIATIVE AND NONRADIATIVE TRANSITIONS OF CARRIERS
CONFINED IN Si NANOCRYSTALS
I. N. Yassievich, A. S. Moskalenko, A. N. Poddubny, A. A. Prokofiev
A.F. Ioffe Physico-Technical Institute, St. Petersburg, Russia
- 9:50 3. SiGe NANOCRYSTAL FORMATION IN PECVD GROWN
SiO_x/Si/Ge/Si/SiO_x MULTILAYERS
S. Ağan¹, A. Aydinli²
¹*Kırıkkale University, Kırıkkale, Turkey*
²*Bilkent University, Ankara, Turkey*
- 10:10 4. SILICON OVERGROWTH ATOP LOW-DIMENSIONAL Mg₂Si
K. N. Galkin, S. A. Dotsenko
*Institute for Automation and Control Processes of FEB RAS, Vladivostok,
Russia*
- 10:30 5. THE MORPHOLOGY AND OPTICAL PROPERTIES OF Fe, Cr AND Mg
SILICIDE NANOCRYSTALLITES BURIED IN SILICON BY ION
IMPLANTATION, PULSED TREATMENTS AND Si OVERGROWTH
N. G. Galkin¹, K. N. Galkin¹, E. A. Chusovitin¹, S. V. Vavanova¹,
A. M. Maslov¹, D. L. Goroshko¹, V. O. Polyarnyi¹, R. M. Bayazitov²,
R. I. Batalov², G. D. Ivlev³
¹*Institute of Automation and Control Processes FEB RAS, Vladivostok, Russia*
²*Kazan Physics-Technical Institute RAS, Kazan, Russia*
³*Institute of Physics NASB, Minsk, Belarus*
- 10:50 6. POROUS ANODISING OF ALUMINIUM FILMS IN THE MENISCAL
REGION
S. Lazarouk, D. Sasinovich
*Belarusian State University of Informatics and Radioelectronics, Minsk,
Belarus*
- Coffee Break**
- 11:30 7. SPECTRAL INVESTIGATIONS OF DYE MODIFIED SILICON OXIDE
NANOSTRUCTURES
H. Graaf, T. Baumgärtel, C. von Borczyskowski
Chemnitz University of Technology, Chemnitz, Germany
- 11:50 8. MEMORY IN BLINKING DYNAMICS OF SILVER NANOPARTICLES
E. P. Petrov, C. Bläul, P. Schwille
Dresden University of Technology, Dresden, Germany
- 12:10 9. EXCITON MIGRATION IN LUMINESCENT MOLECULAR
NANOCLUSTERS
A. Sorokin, R. Grynyov, Y. Malyukin
Institute for Scintillation Materials, NASU, Kharkov, Ukraine

- 12:30 10. TRANSPORT PROPERTIES OF Nb THIN FILMS DEPOSITED ON POROUS Si SUBSTRATES
M. Trezza¹, C. Cirillo¹, C. Attanasio¹, A. V. Dolbik², S. L. Prischepea²
¹Università degli Studi di Salerno, Baronissi, Italy
²Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus
- 12:50 11. STRUCTURAL PECULIARITIES OF FCC AND BCC CATALYST PARTICLES AND FILLINGS INSIDE CARBON NANOTUBES (NANOFIBERS) STUDIED BY MEANS OF ELECTRON MICROSCOPY
B. Kulnitskiy, I. Perezhogin, V. Blank
Technological Institute of Superhard and Novel Carbon Materials, Troitsk, Russia

Lunch

PHYSICS OF NANOSTRUCTURES

- 14:30 1. NANOSTRUCTURE OF NITROGEN-IMPLANTED SILICON ANNEALED AT ENHANCED PRESSURE
J. Bak-Misiuk¹, P. Romanowski¹, P. Formanek², A. Misiuk³, M. Prujarczyk³, I. V. Antonova⁴
¹Institute of Physics PAS, Warsaw, Poland
²Dresden Technical University, Dresden, Germany
³Institute of Electron Technology, Warsaw, Poland
⁴Institute of Semiconductor Physics, SB RAS, Novosibirsk, Russia
- 14:50 2. MAGNETIC DOMAIN WALL MANIPULATION IN NANOSTRUCTURES OF (Ga,Mn)As
T. Figielski¹, T. Wosinski¹, T. Andrearczyk¹, A. Makosa¹, J. Wrobel¹, J. Sadowski²
¹Institute of Physics PAS, Warszawa, Poland
²Lund University, Lund, Sweden
- 15:10 3. Co-Cu ALLOYS SYNTHESIZED BY MECHANICAL ALLOYING FROM THE POWDER PRECURSORS WITH EXCESS ENTHALPY
L. A. Kuzovnikova, E. A. Denisova, S. V. Komogortsev, A. D. Balaev, V. K. Mal'tsev, G. N. Bondarenko
Institute of Chemistry and Chemical Technology SB RAS, Krasnoyarsk, Russia
- 15:30 4. THE ROLE OF EXTERNAL FACTORS FOR GIANT MAGNETORESISTANCE PHENOMENON IN THE POLYMER-FERROMAGNETIC SYSTEM
N. V. Vorob'eva, A. N. Lachinov
Institute of Physic of Molecules and Crystals URC RAS, Ufa, Russia

Coffee Break

- 16:10 5. SEM AND XRD STUDY OF COPPER/POROUS SILICON NANOCOMPOSITES
A. Bondarenko, M. Balucani
Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus

- 16:30 6. ENERGY TRANSFER VERSUS CHARGE TRANSFER IN POLYMER-NANOCRYSTAL CONJUGATES
A. Lutich, G. Jiang, F. Stefani, A. Sussha, A. Rogach, J. Feldmann
Ludwig-Maximilians-Universität München, Munich, Germany
- 16:50 7. NANOSTRUCTURED SILVER FILMS ON MESO- AND MACROPOROUS SILICON LAYERS AS A SUBSTRATE FOR SURFACE-ENHANCED RAMAN SCATTERING
S. N. Terekhov¹, A. Yu. Panarin¹, K. I. Kholostov², V. P. Bondarenko², P.-Y. Turpin³
¹*B.I. Stepanov Institute of Physics NASB, Minsk, Belarus*
²*Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus*
³*Pierre & Marie Curie University, BioMoCeTi GENOPOLE Campus, EVRY, France*
- 17:10 8. DEVELOPMENT OF THE WET METHODS FOR SYNTHESIS OF MESOPOROUS TITANIUM-SILICATE BASED COMPOSITES
E. A. Trusova¹, V. V. Belousov¹, K. A. Solntsev¹, A. E. Chalykh², V. M. Kogan³
¹*A.A. Baykov Institute of Metallurgy and Material Science RAS, Moscow, Russia*
²*A.N. Frumkin Institute of Physical Chemistry and Electrochemistry RAS, Moscow, Russia*
³*N.D. Zelinsky Institute of Organic Chemistry RAS, Moscow, Russia*

POSTER SESSION

17:30-19:00 at the lobby nearby the Conference Hall

Thursday May 28, 2009

CHEMISTRY OF NANOSTRUCTURES

- 9:00 1. AQUEOUS SYNTHESIS OF ALLOYED CdSeTe NANOCRYSTALS
A. Susha, N. Piven, M. Doeblinger, A. Rogach
Ludwig-Maximilians-Universität München, Munich, Germany
- 9:20 2. DEMONSTRATION OF SHAPE AND SIZE CONTROL OF
APPLICATIONS RELEVANT COLLOIDALLY SYNTHESIZED IV-VI
NANOPARTICULATE TIN(II) SULFIDE
S. G. Hickey¹, C. Waurisch¹, B. Rellinghaus²
¹*TU Dresden, Dresden, Germany*
²*IFW Dresden, Dresden, Germany*
- 9:40 3. COLLOIDAL AQUEOUS SYNTHESIS OF SEMICONDUCTOR
Zn_{1-x}Cd_xSe/TGA NANOCRYSTALS WITH LOW Cd CONTENT
V. Lesnyak¹, A. Plotnikov²
¹*TU Dresden, Dresden, Germany*
²*Helmholtz Center Berlin for Materials and Energy, Berlin, Germany*
- 10:00 4. GELS AND AEROGELS FROM COLLOIDAL NANOCRYSTALS
N. Gaponik¹, A. Wolf¹, R. Marx¹, V. Lesnyak¹, A. Eychmüller¹, K. Schilling²
¹*TU Dresden, Dresden, Germany*
²*Nanolytics - Gesellschaft für Kolloidanalytik mbH, Potsdam, Germany*
- 10:20 5. CRYSTAL STRUCTURE OF LEAD SULFIDE NANOPARTICLES IN
THIN FILMS
S. I. Sadovnikov¹, A. A. Rempel¹, A. Magerl²
¹*Institute of Solid State Chemistry, Ural Division RAS, Ekaterinburg, Russia*
²*University of Erlangen-Nuremberg, Erlangen, Germany*
- Coffee Break**
- 11:00 6. TEMPLATE-DIRECTED FORMATION OF POLYCRYSTALLINE
MAGNESIUM OXIDE NANORODS
M. Pashchanka, R. C. Hoffmann, J. J. Schneider
*Eduard-Zintl Institut, Anorganische Chemie Technische Universität
Darmstadt, Darmstadt, Germany*
- 11:20 7. ULTRASONIC EFFECT ON THE MORPHOLOGY AND ACTIVITY OF
METAL NANOPARTICLES
D. Radziuk
Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany
- 11:40 8. IMPREGNATION OF METAL NANOPARTICLES INTO PRE-FORMED
CLAY MATRIX AT DIFFERENT CONDITIONS OF CAVITATION
INTERFACE
V. Belova, H. Möhwald
Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany
- 12:00 9. STABILIZATION OF NANOPARTICLES ON THE SURFACE OF
DETONATION NANODIAMOND
O. V. Popkov¹, G. Yu. Yurkov¹, A. S. Fionov²
¹*IMET RAS, Moscow, Russia*
²*IRE RAS, Moscow, Russia*

- 12:20 10. DFT CALCULATIONS OF Au₃ LUMINESCENCE SPECTRUM
V. Matulis, D. Palagin, O. Ivashkevich
Belarusian State University, Minsk, Belarus
- 12:40 11. EXCLUDED AREA BEHAVIOR UPON COMPRESSION AS A
VALUABLE TOOL FOR DETERMINATION OF MICRO- OR
NANOPARTICULATE CONTACT ANGLES
D. O. Grigoriev, H. Möhwald
Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany

Lunch

NANOTECHNOLOGY

- 14:00 1. NANO-PLASMONICS WITH BIOCONJUGATED NANOPARTICLES
invited J. Feldmann
Ludwig-Maximilians-Universität München, Germany
- 14:30 2. NANOMAGNETIC DOT ARRAYS FABRICATION BASED ON
invited ELECTRON BEAM DRAWING AND ITS SIZE EFFECT
S. Hosaka, H. Sano, Y. Tanaka, M. Shirai, Z. Mohamad, Y. Tanaka, H. Sone,
Y. Yin
Gunma University, Kiryu, Japan
- 15:00 3. PROBE NANOTECHNOLOGY IN ELECTRONICS AND NANOSYSTEMS
invited V. K. Nevolin, I. I. Bobrinetskiy
Moscow Institute of Electronic Technology (Technical University), Russia
- 15:30 4. PROTECTIVE COATING FOR THE HYDROGEN STORAGE
MATERIALS
T. N. Borodina, D. O. Grigoriev, D. V. Andreeva, D. G. Shchukin
Max-Planck-Institute of Colloids and Interfaces, Potsdam-Golm, Germany

Coffee Break

- 16:10 5. THE PREPARATION OF POLYMER HYBRID NANOCOMPOSITES VIA
“PHOTOPOLYMERIZATION TYPE II” REACTION
A. Oral, H. Akat
*Çanakkale Onsekiz Mart University, Çanakkale-TURKEY, Ege University,
İzmir-TURKEY*
- 16:30 6. LIGHT-CONTROLLABLE COATINGS FOR CORROSION PROTECTION
E. V. Skorb¹, D. V. Sviridov¹, D. G. Shchukin²
¹*Belarusian State University, Minsk, Belarus*
²*Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany*
- 16:50 7. LINEARLY POLARIZED PHOTOLUMINESCENCE FROM GaN
QUANTUM DOTS EMBEDDED IN AlN MATRIX
K. S. Zhuravlev¹, I. A. Aleksandrov¹, P. O. Holtz²
¹*Institute of Semiconductor Physics, Novosibirsk, Russia*
²*Linköping University, Linköping, Sweden*
- 17:10 8. NANOARRAY OF BIOMOLECULES WITH A NANOIMPRINTED
INERT HYDROGELS FOR DEVELOPING NANOBIOSENSOR
T. Kawai, B. K. Lee
Osaka University, Osaka, Japan

Conference Reception

Friday May 29, 2009

NANOSTRUCTURE BASED DEVICES

- 9:00 1. INTERDISCIPLINARY USE OF POROUS ALUMINA MEMBRANES
invited M. Hanbücken
Centre Interdisciplinaire de Nanoscience de Marseille, Marseille, France
- 9:30 2. SOME PHYSICAL LIMITS FOR MINIATURIZATION OF ELECTRONIC DEVICES
W. Nawrocki
Poznan University of Technology, Poznan, Poland
- 9:50 3. NANO-LED WITH BROAD BAND OF MODULATION
I. Protsenko¹, K. Krotova²
¹*Lebedev Physical Institute, Moscow, Russia; Advanced Energy Technologies LTD, Moscow, Russia*
²*Moscow Engineering Physics Institute, Moscow, Russia*
- 10:10 4. VERTICAL TYPE OF ORGANIC TRANSISTOR BASED ON POLY(DIPHENYLENEPHTHALIDE)
A. R. Yusupov¹, R. B. Salikhov¹, A. N. Lachinov², R. G. Rakhmeyerov²
¹*Bashkir State Pedagogical University, Ufa, Russia*
²*Institute of Physics of Molecules and Crystals URC RAS, Ufa, Russia*
- 10:30 5. EFFICIENCY ENHANCEMENT OF ETA-CELLS FABRICATED BY SILAR DEPOSITION
S. A. Gavrilov¹, A. V. Zheleznyakova¹, A. A. Dronov¹, T. Dittrich²
¹*Moscow Institute of Electronic Technology, Moscow, Russia*
²*Hahn-Meitner-Institute, Berlin, Germany*
- Coffee Break**
- 11:10 6. FABRICATION OF NANOCRYSTAL LEDS BY LAYER-BY-LAYER DEPOSITION
T. Otto¹, P. Mundra¹, M. Schelter¹, N. Gaponik¹, A. Eychmüller¹, C. Bertoni²,
D. E. Gallardo², S. Dunn²
¹*TU Dresden, Dresden, Germany*
²*Cranfield University, United Kingdom*
- 11:30 7. GENERATING FUNCTIONALITY ON THE NANOMETER AND SUBNANOMETER SCALE IN POLYMERS FOR SENSING IN REAL-LIFE ENVIRONMENTS
P. A. Lieberzeit, S. Yaqub, A. Rehman, N. Iqbal, F. L. Dickert
University of Vienna, Vienna, Austria
- 11:50 8. SEMICONDUCTOR NANOCRYSTALS FOR PHOTOVOLTAICS
A. Rogach
Ludwig-Maximilians-Universität München, Munich, Germany
- 12:10 9. ELECTRIC FIELDS EFFECTS IN THIN FILMS OF CMR MANGANITES
J. Aarts, I. Komissarov
Leiden University, The Netherlands
- 12:30 QUANTUM DETECTOR OF NOISE BASED ON SUPERCONDUCTOR NANOSTRUCTURES
V. L. Gurtovoi, A. I. Ilin, A. V. Nikulov, V. A. Tulin
Institute of Microelectronics Technology RAS, Chernogolovka, Moscow District, Russia
- 12:50 GENERAL DISCUSSION AND CLOSING OF THE CONFERENCE

POSTERS

1. ORDERED ARRAYS OF III/V NANOWIRES BY CATALYST FREE EPITAXY
D. Grützmacher
Forschungszentrum Jülich GmbH, Jülich, Germany
2. SPIN PROPERTIES OF NANODIAMONDS WITH NV-CENTERS
V. A. Pushkarchuk¹, A. B. Filonov¹, V. E. Borisenko¹, A. P. Nizovtsev², S. Ya. Kilin²,
S. A. Kuten³
¹*Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus*
²*B.I. Stepanov Institute of Physics NASB, Minsk, Belarus*
³*Belarusian State University, Minsk, Belarus*
3. ATOMIC AND SPIN STRUCTURE OF SINGLE NV-CENTERS NEAR
NANODIAMOND SURFACE
V. A. Pushkarchuk¹, A. B. Filonov¹, A. P. Nizovtsev², S. Ya. Kilin², A. L. Pushkarchuk²,
S. A. Kuten³
¹*Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus*
²*B.I. Stepanov Institute of Physics NASB, Minsk, Belarus*
³*Belarusian State University, Minsk, Belarus*
4. PHONON-ASSISTED TUNNELING THEORIES APPLIED TO ELECTRONIC
CONDUCTION IN NANOWIRES OF INORGANIC COMPOUNDS
P. Pipinys, A. Rimeika, R. Sereika
Vilnius Pedagogical University, Vilnius, Lithuania
5. RAMAN SCATTERING IN ION-SYNTHESIZED SILICON NANOCRYSTALS NON-
UNIFORMLY DISTRIBUTED IN SiO₂ AND Al₂O₃
A. I. Belov, A. N. Mikhaylov, A. V. Nezhdanov, Yu. V. Zamotaeva, D. I. Tetelbaum
University of Nizhny Novgorod, Nizhny Novgorod, Russia
6. STRUCTURAL INSTABILITY OF ANNEALED a-Si/a-Ge NANOSTRUCTURES
C. Frigeri¹, L. Nasi¹, M. Serényi², A. Csik³, Z. Erdélyi⁴, D. L. Beke⁴
¹*CNR-IMEM Institute, Parma, Italy*
²*MTA-MFA Institute, Budapest, Hungary*
³*Institute of Nuclear Research of HAS, Debrecen, Hungary*
⁴*University of Debrecen, Debrecen, Hungary*
7. ENHANCED SLOWING DOWN OF ELECTROMAGNETIC WAVES IN MULTI-WALL
CARBON NANOTUBES
K. Batrakov, P. Kuzhir, S. Maksimenko
Belarus State University, Minsk, Belarus
8. ELECTRIC FIELD EFFECTS ON OPTICAL PROPERTIES OF SEMICONDUCTOR
NANORODS
L. I. Gurinovich¹, A. A. Lutich¹, A. P. Stupak¹, S. Ya. Prislopskii¹, M. V. Artemyev²,
E. K. Rusakov², H. V. Demir³
¹*B.I. Stepanov Institute of Physics NASB, Minsk, Belarus*
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³*Bilkent University, Ankara, Turkey*
9. FORMATION OF THE PbS QUANTUM DOTS IN BORON-SILICATE GLASS MATRIX
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10. OPTICAL WAVEGUIDES IN GLASSES DOPED WITH LEAD SULFIDE QUANTUM DOTS
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11. PLASMONIC SILVER FILMS APPLICATION TO ENHANCING OF STAINING DYES SECONDARY EMISSION
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12. LOCALIZED SURFACE PLASMON ENHANCEMENT AT BIMETALLIC PLANAR NANOSTRUCTURES
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13. THERMODYNAMIC MODELING OF NITROGEN INCORPORATION IN GaInNAs NANOLAYERS GROWN BY MOLECULAR BEAM EPITAXY
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14. ETCHED ION TRACKS IN AMORPHOUS Si₃N₄ FILMS
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15. ERBIUM EXCITATION IN THE NANOSTRUCTURED AMORPHOUS SILICON
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16. ELECTRIC TRANSPORT PROPERTIES OF OVERDOPED NdCeCuO THIN FILMS
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17. EFFECT OF DISPERSITY AND HIGH PRESSURE SINTERING TEMPERATURE OF TITANIUM DIBORIDE ON ITS PHYSICAL AND MECHANICAL PROPERTIES
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18. SCANNING PROBE MICROSCOPY OF CoFeZr-ALUMINA NANOCOMPOSITES
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19. INFLUENCE OF NITROGEN ON HIGH-FREQUENCY PERMEABILITY OF SOFT MAGNETIC NANOPARTICLES EMBEDDED INTO ALUMINA MATRIX
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20. THE STRUCTURE AND THE MAGNETIC PROPERTIES OF COBALT NANOPARTICLES IN THE HIGH-POROUS AMORPHOUS CARBON MATRIX
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21. SYNTHESIS AND INVESTIGATION OF NANOSTRUCTURED Fe_{1-x}Ni_x(P) COLUMNS DEPOSITED INTO POROUS POLYCARBONATE MATRIX
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22. CORRELATION OF MAGNETORESISTANCE WITH IR MAGNETOREFLECTANCE FOR MULTILAYER MAGNETIC FILMS
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23. PHOTOLUMINESCENCE AND EPR SPECTRA OF MANGANESE-DOPED CADMIUM SULFIDE NANOPARTICLES
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24. MAGNETIC-FIELD-INDUCED MODIFICATION OF POROUS SILICON SURFACE AND PHOTOLUMINESCENCE
V. A. Makara, L. P. Steblenko, V. B. Shevchenko, T. S. Veblaya
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25. CURRENT-VOLTAGE CHARACTERISTICS AND TUNNEL MAGNETORESISTANCE OF CoFe/MgO/Si NANOSTRUCTURES
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26. COLLOIDAL SYNTHESIS OF LANTHANIDE ORTHO-PHOSPHATE NANOPHOSPHORS FOR BIOLOGICAL APPLICATIONS
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27. LB FILMS BASED ON PHOSPHOLIPIDS: SELF-ORGANIZATION AND DOMAIN FORMATION
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28. INVESTIGATION OF HORSERADISH PEROXIDASE ADSORPTION ON GOLD AND POLYSTYRENE SULFONATE MODIFIED SURFACES BY QUARTZ CRYSTAL MICROBALANCE TECHNIQUE
V. I. Shadryna, T. G. Shutava, V. E. Agabekov
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29. ELECTROCHEMICAL DEPOSITION OF NANOSTRUCTURED METAL-OXIDE COMPOSITES
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30. ULTRASOUND-PROVIDED SYNTHESIS OF COBALT-CONTAINING NANOPARTICLES
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31. STRUCTURAL FEATURES AND MAGNETIC PROPERTIES OF γ -Fe₂O₃-SiO₂ NANOCOMPOSITES
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32. OXIDATION BEHAVIOR OF MICRO- AND NANOSTRUCTURED SILICON POWDERS
A. A. Kovalevsky, A. A. Shevchenok, A. S. Strogova
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33. HIGH-ORDERED Ge NANOCUSTER SELF-ASSEMBLY DURING Ge-DOPED POLY-Si DEPOSITION
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34. SIZE EFFECT IN CHEMICAL REACTIONS IN NANOPARTICLES
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35. PECULIARITIES OF NANOPARTICLES GROWTH IN LOW PRESSURE SPRAY PYROLYSIS
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36. FEATURES OF NON-LITHOGRAPHIC FORMATION OF PERIODICAL NANOSTRUCTURES ON SILICON
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37. FABRICATION OF SILVER NANOSTRUCTURES OVER ANODIC ALUMINUM OXIDE FOR EFFICIENT SURFACE-ENHANCED RAMAN SCATTERING
S. N. Terekhov¹, A. Yu. Panarin¹, N. I. Mukhurov¹, S. P. Zhvavyi¹, I. A. Khodasevich¹, V. A. Orlovich¹, P. Mojzes²
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38. MICROSIZED HOLLOW CAPSULES ON THE BASIS OF BIODEGRADABLE POLYELECTROLYTES
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39. TEST STRUCTURE FOR SPM TIP SHAPE DECONVOLUTION
A. N. Belov, S. A. Gavrilov, V. I. Shevyakov, A. A. Tihomirov
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40. MONTE CARLO SIMULATION OF ELECTRON TRANSPORT IN DEEP SUBMICRON MOSFETS WITH THREE 40 nm GATES
O. G. Zhevnyak, A. V. Borzdov, D. S. Speransky, V. M. Borzdov
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41. 1.5 μm ULTRAFast ALL OPTICAL MODULATOR BASED ON GaAs/(AlGa)_xO_y
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42. THE COMPONENTS FOR PRODUCING DETECTORS, MODULATORS, TRANSFORMERS OF RADIATION USING FILM COMPOSITIONS WITH NANOCRYSTALS
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43. THEORETICAL COMPARISON OF DILUTE-NITRIDE "W" AND "M" InAsN/GaSb MID-IR INFRARED LASER DIODES
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44. EFFECT OF $\gamma\text{-Fe}_2\text{O}_3/\text{In}_2\text{O}_3$ NANO-HETEROSTRUCTURE ON ITS SENSITIVITY TO METHANE
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45. ELECTROLUMINESCENCE IN LASER DIODE NANOSTRUCTURES p-Al_xGa_{1-x}As/GaAs_{1-y}P_y/n-Al_xGa_{1-x}As UNDER UNIAXIAL COMPRESSION
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46. THE EQUIVALENT CIRCUIT OF SPIN-DEPENDANT TRANSPORT IN DOUBLE-BARRIER RESONANT TUNNELING STRUCTURE
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47. PHOTOLUMINESCENCE OF Tb_{0.15}Y_{2.85}Al₅O₁₂ COMPOSITES
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48. DICHROMATIC LUMINESCENT IMAGES ON THE BASIS OF POROUS ANODIC ALUMINA
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49. THERMALLY INDUCED CHANGES IN (Ba,Sr,Ca)TiO₃ XEROGEL
T. W. Kim, N. V. Gaponenko
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50. FEATURES OF SILICON ANISOTROPIC ETCHING IN AQUEOUS KOH SOLUTIONS
A. E. Usenka, A. V. Yukhnevich
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51. FEATURES OF THE NICKEL ELECTROCHEMICAL DEPOSITION INTO MESOPOROUS SILICON
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52. NANOPOROUS ALUMINA PANELS FOR BACKLIGHT ENHANCEMENT IN LIQUID CRYSTAL DISPLAYS
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53. PLATINIZING OF POROUS SILICON FOR ELECTRODES OF MICRO FUEL CELLS
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54. SYNTHESIS AND CHARACTERIZATION OF NANOGRAINED PZT-NiFe₂O₄-PZT SANDWICHED LAYERS
S. S. Nair, Li Jian, I. Salvado, N. A. Sobolev, A. L. Kholkin
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55. THE MECHANISMS OF DEFORMATION AND FAILURE OF NANOCRYSTALLINE MATERIALS TO BE ANALYZED BY THE METHOD "IN SITU"
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56. RASHBA-RELATED ELECTRON PROPERTIES OF A TRIPLE-TERMINAL QUANTUM DOT STRUCTURE
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57. PRINCIPLES OF SINGULAR VALUE DECOMPOSITION FOR RESOLUTION ENHANCEMENT IN NEAR-FIELD OPTICS
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58. PHOTOVOLTAGE GENERATION IN ANODIC ALUMINA WITH BUILT-IN SILICON CLUSTERS
A. A. Leshok, P. S. Katsuba, A. A. Larchenko, V. E. Borisenko
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59. LIGHT-EMITTING Si NANOSTRUCTURES IN SiO₂ LAYERS FORMED BY IRRADIATION WITH SWIFT HEAVY IONS
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60. QUANTUM CHEMICAL SIMULATION OF STRUCTURAL STABILITY AND ATOMIC DIFFUSION IN SILICON NANOTUBES
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61. FULLERENE C₂₀ MOTION IN (8,8) CARBON NANOTUBE
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62. LUMINESCENCE PROPERTIES OF DOUBLE BAND-EMITTING SEMICONDUCTOR NANOCRYSTALS CAPPED WITH DIFFERENT THIOLS
M. Hardzei, M. Artemyev
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63. THEORETICAL STUDY OF ADSORPTION OF SILVER DIMER ON TITANIUM DIOXIDE SURFACE: COMPARISON OF CLUSTER AND PERIODIC MODELS
A. Mazheika, V. Matulis, D. Palagin, O. Ivashkevich
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64. NON-FRET EMISSION QUENCHING AND ELECTRON WAVE FUNCTION TUNNELING IN EXCITED NANOCOMPOSITES "CdSe/ZnS QUANTUM DOTS-PORPHYRINS"
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65. PHOTOINDUCED ELECTRON TRANSFER IN HETEROCOMPOSITES BASED ON SEMICONDUCTOR CdSe QUANTUM DOTS AND QUINONES
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66. NANOJET-INDUCED MODES IN ONE-DIMENSIONAL COLLOIDAL PHOTONIC CRYSTALS
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67. OPTICAL GAIN SPECTRA AND LASER ACTION OF InGaN/GaN MQWs GROWN ON SILICON AT PUMPING BY FEMTOSECOND PULSES
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68. COMBINED EFFECT OF LOCAL FIELD AND DENSITY OF STATES ENHANCEMENT NEAR METAL NANOBODIES IN SINGLE MOLECULE RAMAN SPECTROSCOPY
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69. ENHANCED RAMAN SCATTERING OF ULTRAMARINE WITH NANOSIZED Ag PARTICLES
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70. ELECTRICAL PROPERTIES OF NANOSTRUCTURED VANADIUM OXIDE THIN FILMS ON SILICON SUBSTRATES
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71. PHOTOASSISTED SCANNING TUNNELING MICROSCOPY OF Me-LPPP AND MEH-PPV BASED NANOCOMPOSITE FILMS
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72. OPTICAL FEATURES IN THE Ge-Zr-O NANOSYSTEM
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73. STRUCTURE AND MAGNETIC PROPERTIES OF Sr₂FeMoO_{6±δ} NANOSIZED FILMS
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74. SPECTRAL CHARACTERISTICS OF BIOCOMPATIBLE NANOPARTICLES OF NOBLE METALS
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75. FERROMAGNETIC COMPOSITE EuO:Fe FOR THE SEMICONDUCTOR SPINTRONICS: THE MECHANISMS OF HIGH MAGNETIZATION
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76. GROWTH AND PROPERTIES OF FeIn₂S₄ SINGLE CRYSTALS
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77. LASER AND PLASMA ASSISTED SYNTHESIS OF COMPOSITE NANOPARTICLES IN LIQUIDS
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78. SAXS STUDY OF THE Ce-Ti-DOPED SILICATE GLASSES
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79. THERMAL OXIDATION OF MOLECULAR BEAM EPITAXIAL DEPOSITED Sn NANOISLANDS
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80. MODIFICATION OF THE Cz SILICON WAFER PROPERTIES BY LOW-ENERGY LOW-TEMPERATURE HYDROGEN ION-BEAM TREATMENT
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81. INFLUENCE OF THE POROUS SILICON STRUCTURE ON ITS COMBUSTION AND EXPLOSION
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82. ELECTROCHEMICAL CHARACTERIZATION OF THE CATHODIC NUCLEATION OF METALS ON SILICON
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83. DFT STUDY OF THE INTERACTION BETWEEN H₂ AND Pd DECORATED GRAPHENE SHEET
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84. MAGNETIC NANOCOMPOSITES IN POROUS ANODIC ALUMINA
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85. THERMAL CVD SYNTHESIS OF CARBON NANOTUBES IN SWIFT HEAVY ION TRACKS OF SILICON DIOXIDE
 A. V. Petrov¹, E. Yu. Kaniukov¹, S. E. Demyanov¹, A. S. Berdinsky², A. V. Okotrub³,
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86. SYNTHESIS OF VERTICALLY ALIGNED ARRAYS OF MIXED SINGLE/MULTI-WALLED CARBON NANOTUBES BY CVD METHOD WITH THE VOLATILE CATALYST
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87. DEFECTS IN POROUS ANODIC ALUMINA FILMS FORMED ON HIGH-PURITY ALUMINIUM
 T. V. Molchan, I. S. Molchan, G. E. Thompson, P. Skeldon
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88. THEORETICAL MODELLING OF TIP-INDUCED MANIPULATION OF C₆₀ ON THE Si(001) SURFACE
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- THEORETICAL MODELLING OF SELF-ASSEMBLY OF MOLECULAR NANOSTRUCTURES
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89. FORMATION OF BI-SUBSTITUTED YTTRIUM IRON GARNET NANOSIZED FILMS
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90. SCANNING FORCE MICROSCOPY STUDY OF ACTIVATED HUMAN PLATELETS INTERACTION WITH LEUCOCYTES AND RED BLOOD CELLS
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91. K562 CELLS STUDY WITH SCANNING FORCE AND CONFOCAL LASER SCANNING MICROSCOPY
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92. FAR INFRARED LASERS WITHOUT INVERSION BASED ON INTERSUBBAND TRANSITIONS IN SEMICONDUCTORS
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93. HUMIDITY AND TEMPERATURE SENSOR PROPERTIES OF P-Si/POLYIMIDE/C₆₀ NANOSTRUCTURES WITH SWIFT HEAVY ION TRACKS
A. V. Petrov¹, E. Yu. Kaniukov¹, S. E. Demyanov¹, A. Nocke², M. Günther², G. Gerlach², A. S. Berdinsky³, D. Fink⁴
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94. VACANCY AND VACANCY-OXYGEN CLUSTERS IN EPI-Si p⁺-n DIODES IRRADIATED WITH MeV ELECTRONS AT ELEVATED TEMPERATURES
S. B. Lastovskii, Yu. V. Bogatyrev, V. P. Markevich, L. I. Murin, F. P. Korshunov
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95. ULTRAFast MAGNETIZATION DYNAMICS OF THIN Au/Fe FILMS: NONLINEAR OPTICS STUDIES
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96. NANOSTRUCTURE OF SILICON-GERMANIUM SOLID SOLUTION ANNEALED UNDER ENHANCED PRESSURE
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97. REDISTRIBUTION OF CrSi₂ NANOCRYSTALLITES IN SILICON CAP LAYERS DURING MBE GROWTH ON Si(111) SUBSTRATES
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98. MAGNETIC PROPERTIES OF A^{III}-B^{IV}-C^V₂ SEMICONDUCTORS DOPED WITH 3d-ELEMENTS
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