Place and time: State Scientific and Production Association «Scientific-Practical Materials Research Centre of the National Academy of Sciences of Belarus », Minsk, Belarus, June 27-29, 2012

NOTES FOR AUTHORS OF ORAL PRESENTATIONS

All speakers have to register for the conference. Please note that your paper will not be published without registration for the conference and the presentation of the poster in its allotted session during the conference. The conference abstracts will be published on CD ROM.

1-Introduction

The guidelines intend to assist authors in preparing oral presentations at the **International Conference on Modern Applications of Nanotechnology (IBCN12) 27-29 June 2012, Minsk, Belarus**. English is the official language of **IBCN12 Belarus**. English should be used throughout your presentation including poster materials. No simultaneous interpretation services will be available. The papers have to be prepared and presented in ENGLISH, the official language of the Conference. As standard technical equipment a computer (PC) and beamer.

2-Information for oral presenters

For **computer driven presentations** please prepare a DVD, CD-ROM or a USB memory stick with your Microsoft PowerPoint presentation. Do not compress (eg.zip) or split your presentation on several media.

The software in use will be Microsoft Windows XP (Service Pack 3) and PowerPoint 2007 (downwards compatible, UK standard, save fonts used in your document). For video and audio files only "MPEG2" and "WAV" data format can be accepted. Your file should be saved as the respective number of your presentation (i.e. "1AP1_1.ppt" or "6BO7_4.ppt"). If your presentation uses digital video or audio files (*,mpg,*.wav) check that they are saved in the same directory as your PowerPoint-fit and adapt the link if needed.

You will not be able to use your own computer for presentations at the parallel sessions. The computers at the venue are equipped with Windows XP, Office 2007. Remember to test your presentation in a windows computer beforehand, to avoid unpleasant surprises!. An additional computer will be available at the presentations desk (Preview room) to check the correct functionality of your presentation prior to the session. Please label your DVD, CD-ROM or USB stick with your name and the number of your presentation as indicated in the program.

3-Opening Hours of Presenters' Desk

Oral presentations are organized in oral sessions scheduled in specific lecture rooms given in the program together with the time of presentation of each contribution including discussion and change over. Opening Hours of Presenters' Desk are as follows:

Wednesday, June 27, 2012	17-19
Thursday , June 28, 2012	9-11 , 11.30-13.30 , 15-17.20
Friday , June 29, 2012	9.30-10.50 , 11.30-13.30

4-Other guidelines for Presenters

The computer driven presentations which will be used during your oral presentation must be checked, sorted and handed to the **technician at the Presenters' Desk at least two hours prior to the beginning of the session** of your presentation. The presentation will then be transferred to the respective auditorium. No changes will be possible from 30 minutes before the beginning of a session.

Speakers and Chairperson will meet **in the auditorium 20 minutes prior** to their session to be briefed and to get acquainted with the audiovisual equipment ect. And resolve any problems.

Speakers in Plenary Session will be allotted **a time slot of 30 minutes in total (including questions).**

Speakers in Oral Sessions will be allotted **a time slot of 20 minutes in total (including questions).** Please note that the Chairpersons of your session will have strict instructions to

enforce this time limit, so time your lecture carefully, considering approx. **5 minutes for questions.**

Kindly note that advertising material is not allowed to be presented in this scientific Conference. Your presentation may include a maximum of two slides containing information about your organization.

Finally we would like to ask you to help us in preparing a Conference Summary which the Topic Organizers together with the Technical Program Chairman compile at the end of the conference. Therefore we would appreciate to have some highlight material from your presentation. As it might well be that your presentation is considered as such a highlight, we would like to receive **your well conceived conclusions** out of your presentation file, or any highlight material (e.g. photo, graphs) worthwhile to be brought to the attention of the audience in the Closing Session.

5-Lecture Room Equipment

- Beamer;
- Notebook for the upload of presentations (USB Flash Drive, DVD, CD);
- VGA Panel to connect the personal notebook/MacBook with the beamer via a switch (incl. power supply)*;
- Kensington presenter to switch slides incl. laser pointer;
- Necklace speaker microphone;
- Wireless hand-held discussion microphones (larger rooms only).

We look forward to your presentation and to meeting you in Minsk.

NOTES FOR AUTHORS OF VISUAL (POSTER) PRESENTATION

Authors of posters have to register for the conference. Please note that your paper will not be published without registration for the conference and the presentation of the poster in its allotted session during the conference. The conference abstracts will be published on CD ROM.

1-Introduction

The guidelines intend to assist authors in preparing poster presentations at the **International Conference on Modern Applications of Nanotechnology (IBCN12) 27-29 June 2012, Minsk, Belarus** .
English is the official language of **IBCN12 Belarus**. English should be used throughout your presentation including poster materials. No simultaneous interpretation services will be available.

2-Information for poster presenters

When preparing the Poster, presenters should have in mind the objective of capturing the interest of attendees to the work that is being presented. The quality of the presentation stimulates the attention from the audience, and improves the overall satisfaction of the community attending the conference.

As visual presentation is a perfect medium for direct two-way communication with all interested delegates on specific topics, objects or programs.
Good design is essential if this important part of the conference is to be a success. Authors are therefore urged to follow closely these instructions together with the instructions for preparation of papers. The poster message should be clear and understandable without oral explanation. Further, we would like to call the attention of poster presenters to the following items:

- The posters and papers have to be presented in ENGLISH, the official language of the conference.
- Your visual presentation will bear on official number as indicated in the program. This number will also appear on the panel, which has been reserved for you poster presentation.
- The maximum display are on your panel is 0.6 m wide and 1.0 m high. This allows for posters up to A0 format. The boards will be arranged in topic groups and numbered according to the conference program. Double faced adhesive tape will be available to attach your poster on the poster panels.
- The visual presentation has to be headed by the title and the author(s) name(s). A good visual presentation concentrates on the outstanding features of a project, easily grasped by the viewer, with a minimum of text (less than 50% of the total poster area) and readable at a distance of approx. 2 m (use letters at least 10 mm high).
- An envelope will be available on each poster panel to provide space for communication with other participants (exchange of business cards).
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3-Set Up Your Poster]

You will have the unique opportunity that all visual poster presentation can be presented on all days from Thursday, June 28 through Friday, Jun 29 in the poster are, which is fully integrated in the conference are. Thus your work and results will enjoy a very high visibility.

4-Schedule of interactive visual presentations

Authors of visual presentations are requested to be present at their posters at least during the times indicated below, in the program booklet and on our web site. This will give all conference delegates the opportunity for questions and discussion, thus fostering information exchange, which is the major objective of this event.

5-Best Poster Awards

Academic Secretariat prepares awards for best posters. International referees will review all posters on display and recommends candidates. The awards will be announced at the closing event on the last day of the conference.

We look forward to your presentation and to meeting you in Minsk.

Session Timing

Wendnesday, June 27, 2012

14.00-16.00 - Registration
16.00-16.45 - Welcome Speakers

16.45-17.15 Coffee Break

17.15-19.30 - Keynote Speakers

1. Prof. Sergey V. Gaponenko
B.I. Stepanov Institute of Physics, National Academy of Sciences of Belarus, Minsk, Belarus
Light—Matter Interaction in Nanostructures: From Basic Science to Novel Materials and Devices

2. Prof. Sergey.A. Chizhik
A.V. Luikov Heat and Mass Transfer Institute of the National Academy of Sciences of Belarus, Minsk, Belarus
Nanomechanics and Nanodiyagnostic methods based on Scanning Probe microscopy

3. Prof. Ali Iranmanesh
Department of Mathematics, Tarbiat Modares University, Tehran, Iran
Some Topological Descriptors of Some Nanostructures

4. Prof. Nima Taghavinia - Physics Department, Sharif University of Technology, Tehran, Iran
Efficiency enhancement strategies for dye solar cells

5. Prof. Erhan Piskin
Head of Bioengineering R&D Center-Biyomedtek at Hacettepe University, Ankara, Turkey.
Gold Nanoparticles: Synthesis and Selected Medical Applications

19.15- Free evening

Thursday, June 28, 2012

08.30-9.00 - Registration

09.00-11.00

Section «Nanocomposites»

1. B. Ghanavati[1,2], V.A. Kukareko[1] and A.G. Kononov[1]
[1] Joint Institute of Mechanical Engineering, Minsk, Belarus
[2] Islamic Azad University, Mashahr Branch, Mashahr, Iran
Effect of ion-beam nitriding on the structure and properties of chromium coatings containing nanosized diamond particles

2. P.Kuzhir[1], A.Paddubskaya[1], A. Plyushch[1], S. Maksimenko[1], S. Bellucci[2], L. Coderoni[2], F. Micciulla[2], V. Fierro[3] and A. Celzard[3]
[1]Research Institute for Nuclear problems of Belarusian State University (INP BSU), Belarus
[1,2]INFN-Laboratori Nazionali di Frascati, Via E. Fermi 40, 00044, Frascati, Italy
[3]IJL – UMR CNRS 7198, Université de Lorraine - ENSTIB, France
Carbon – filled epoxy composites in microwaves

3. Ma. Ganjali, Mo. Ganjali, A. A. Kazemzadeh
Materials and Energy Research Centre, Meshkindasht, Iran
Binary Nanometal Alloy Layer Formation by Laser Induced Dual Plasmas

4. T.M. Ulyanova, N.P. Krutko, L.V. Titova, S.V. Medichenko
Institute General and Inorganic Chemistry of NAS of Belarus, Minsk, Belarus
Refractory Porous Ceramics with Nanostructured Components

5. Monireh Ganjali, Mansoureh Ganjali, M. Ganji, M. R. Rahimipour
Materials and Energy Research Center (MERC), Tehran, Iran
Laser Cladding of Fe – Tic Nano composite on Middle Carbon Steel Substrate

6. Ulyanova T.M.[1], Vitiaz P.A.[2],Krutko N.P.[1], Titova L.V.[1], Shevchonok A.A.[3], Luchenok A.R.[3]
[1]Institute of the General and Inorganic Chemistry of NAS of Belarus, Minsk, Belarus
[2]Presidium of NAS of Belarus, Minsk, Belarus
[3]Institute of Powder Metallurgy of NAS of Belarus, Minsk, Belarus
Nanostructured ZTA and ATZ Fibrous Powders and Ceramic Composites Based on Them

09.00-11.00

Section « Nanoparticles (synthesis and characterization)»

1. B. Shirkavand Hadavand[1], F. Najafi[1], A. Mirshokrai[2], Z. Oskoui Tabrizi[2]
[1]Department of Resin and Additives, Institute for Color Science and Technology, Tehran, Iran;
[2]Department of Organic Chemistry, Tehran Payamenoor University, Tehran, Iran
UV-Curable Epoxy Acrylate/ Fe_3O_4 Nano Hybrid as a Smart Coatings: Synthesis, Characterization and Properties

2. N.A. Poklonski[1], N.I. Gorbachuk[1], V.K. Ksenevich[1], E.A. Shalaeva[1], V.E. Obukhov[2], E.A. Tyavlovskaya[2]
[1]Belarusian State University, Minsk, Belarus
[2]SEC "Plasmoteg" of PTI of NAS of Belarus, Minsk, Belarus
Electric conduction of diamond-like carbon films modified with argon ions

3. B.Akbarian, F.Rashidi
Department of Chemical Engineering, Amirkabir University of Technology, Hafez Ave, Tehran, Iran
Organo Modified Nano Polysiloxane Role in the Enhancement of Water/Crude Oil Emulsion Separation

4. V. Goncharov, G. Gusakov, M. Puzyrev
Institute of the Applied Physics Problems, Minsk, Belarus
Characteristics of the nanostructured carbon coats deposed by laser-plasma method

5. M. Mirzaee, B. Bahramian, A. Amoli, M. Mirebrahimi
Department of Chemistry, Shahrood University of Technology, Iran
Catalytic Application of Molybdenum Hexa-Carbonyl Supported on Functionalized Nano-Boehmite

6. A. Klushko[1], E. Chubeno[1], S. Futko[2], V. Bondarenko[1], K. Dobrego[2], L. Dolgyi[1]
[1]Department of Micro- and Nanoelectronics, Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus
[2]Heat and Mass Transfer Institute, National Academy of Sciences of Belarus, Minsk, Belarus
Matrix micro-thrusters for nanosatelites

11.00-11.30 Coffee Break

11.30-13.30

Section «Nanocomposites»

1. Ghazban Zadeh E.
Belarusian National Technical University Minsk, Belarus
Characteristics and Applications Nanocomposite Tungsten Carbides-Cobalt (WC-10% Co) in Mechanical Industry

2. O.V. Goncharova
B. I. Stepanov Institute of Physics, National Academy of Sciences, Minsk, Belarus
The Components for Producing Detectors, Markers, Transformers of Radiation Using Films with Nano-Sized Elements

3. S.N. Terekhov[1], A.Yu. Panarin[1], I.A. Khodasevich[1], G.G. Gorokh[2] and V.P. Bondarenko[2]
[1] B.I. Stepanov Institute of Physics of NASB, Minsk, Belarus
[2] Micro- and Nanoelectronics Department of BSUIR, Minsk, Belarus
Plasmonic Structures for Surface-Enhanced Raman Scattering Based on Silvered Porous Substrates

4. M.H. Entezari, T. Soltani
Department of Chemistry, Ferdowsi University of Mashhad, Mashhad, Iran
Sono-synthesis of Bismuth Ferrite Nanoparticles with High Photocatalytic Activity in Degradation of Rhodamine B under Solar Light Irradiation

5. G.A. Rusetsky[1], O.Kh. Khasanov[1], N.N. Rubtsova[2]
[1]SSPA "Scientific-Practical Material Research Centre of NAS of Belarus", Minsk, Belarus
[2]Institute for Semiconductor Physics Siberian Branch of RAS, Lavrent'eva Ave., Novosibirsk 630090, Russia
Nonstationary optical processes in semiconductor nanostructures

6. V.S. Urbanovich
SSPA "Scientific-Practical Material Research Centre of NAS of Belarus", Minsk, Belarus
High Pressure Sintering as Advanced Technology of Obtaining of Nanostructured Ceramics Based on High-Melting Point Compounds

11.30-13.30

Section « Nanoparticles (synthesis and characterization)»

1. Gh. Nasiri-Khuzani*[1], M. A. Asoodar[1], M. Rahnama [1], H. Sharifnasab[2]
[1]Department of Agricultural Engineering, University of Agriculture and Natural Resources Ramin, Khouzestan Iran; [2]Scientific Board of Agricultural Engineering Research Institute, Karaj, Alborz Iran
Tribological Performance of Nano-Diamond as Oil additives used in Massey Ferguson model 399 tractor Engines

2. A.Moosavi, A. Moghimi
Dept. Mech. Eng., Sharif University of Technology, Tehran, Iran
Numerical Study of Pinning of Contact Line on Nanometric Steps

3. S.S. Grabchikov[1], A.V. Trukhanov[1], Ali Bakouie[2], V.I. Gnedih[3], O.E. Kozlov[3], V.A. Kotcov[3], P.P. Moiseev[3] and A.V. Viktorov[3]
[1] SSPA "Scientific-Practical Material Research Centre of NAS of Belarus", Minsk, Belarus
[2]Tarbiat Modarres University, Iran
[3]Space Research Institute, Russian Academy of Sciences, Moscow, Russia
Application of multilayered film electromagnetic screens in space equipment

4. Kh. Fathalikhani, A. R. Ashrafi
Faculty of Mathematical Sciences, University of Kashan, Kashan, Iran
The Eccentricity Sequence of Some Carbon Nanotubes

5. R. Ashrafi
Department of Nanocomputing, Institute of Nanoscience and Nanotechnology, University of Kashan, Iran
Symmetry of Fullerenes and Nanotubes

6. A.A. Shokri[1,3], Sh. Nikzad[2]
[1]Department of Physics, Payame Noor University (PNU), 19395-3697, Tehran, Iran
[2]Department of Physics, Islamic Azad University, Tehran, Iran
[3]Computational Physical Sciences Research Laboratory, Department of Nano-Science, Institute for Research in Fundamental Science (IPM), P.O. Box 19395-5531, Tehran, Iran
Effect of Opened and Closed End CNT Leads on Electrical Transport through C_{60} Molecule

13.30-15.00 Lunch

15.00-17.20

Section «Nanocomposites»

1. H. Khorasanizadeh, J. Amani, M. Hemmat
Dept. of Mech. Eng., University of Kashan, Kashan, Iran
Numerical Study of Cu-water Nanofluid Mixed Convection and Entropy Generation in an Inclined Square Cavity with Inlet and Outlet Ports

2. F.F.Komarov[1], V.V.Pilko[1], A.D.Pogrebnjak[2]
[1]Institute of the Applied Physics Problems, Minsk, Belarus
[2]Sumy University,Sumy, Ukraine
Formation of perspective nanocomposite coatings by magnetron deposition

3. Chekan N.M., Bahayeu S.I. Akula I.P., Parshuto A.A.
PLASMOTEG SEC of Physical-Technical Institute of the NAS of Belarus, Minsk, Belarus
Composite nanostructured materials based on alumina ceramic and diamond-like carbon

4. M.A. Britch, K.V. Dobrego and L.I. Krasovskaya
Heat and Mass Transfer Institute, National Academy of Sciences of Belarus, Minsk, Belarus
Modelling of the CNT-polymere nanocomposites

5. N.Refahati[1], A.V.Mudryi[2] ,A.Karotki[3] ,M.V.Yakushev[4]
[1]Department of Mechanical Engineering, Damavand Branch, Islamic Azad University, Damavand, Tehran, Iran
[2]Scientific-Practical Material Research Centre of the National Academy of Science of Belarus, 220072, Minsk, P.Brovki 19, Belarus
[3]Department of Physics, Strathclyde University, Glasgow, G4 0NG, UK
Characterisation of ZnO and In_2O_3:Sn-based nanoscale thin film on polyimide substrates

6. H. Bandarenka, K. Artsemyeva, V.Bondarenko
Department of Micro- and Nanoelectronics, Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus
Copper-porous silicon nanocomposites: formation, properties and applications

7. S. D. Latushkina[1], D. V. Kuis[2], P. V. Rudak[2], O. Y. Piskunova[2], O. I. Gapanovich[1], A. G. Zhizhchenko[1]
[1]Physical Technical Institute, the Academy of Sciences, the Republic of Belarus, Minsk, Belarus
[2]The Belarusian State Technological University, Minsk, Belarus
Generation of protective nanostructure vacuum coatings by using separated plasma flows

15.00-17.20

Section «Nanoboitechnology»

1. E. Alipour[1], H. Ghourchian[1] and S. M. Boutorabi[2]
[1]Laboratory of Microanalysis, Institute of Biochemistry & Biophysics, University of Tehran, Tehran, Iran;
[2]Pishtazteb Medical Company, Tehran, Iran
Gold Nanoparticle Based Capacitive Immunosensor for Detection of Hepatitis B Surface Antigen

2. M. Salouti[*1], A. Ahangari[2], Z. Heidari[1], F. Saghatchi[3]
[1]Biology Research Center, Zanjan Branch, Islamic Azad University, Zanjan, Iran;

[2]Department of Microbiology, Faculty of Sciences, Zanjan Branch, Islamic Azad University, Zanjan, Iran;
[3]Department of Radiology, Faculty of Paramedical and Health, Zanjan University of Medical Sciences, Zanjan, Iran
GNPs-Gentamicin Conjugate: A Targeting Contrast Agent for X-ray Imaging of Infectious Foci

3. N.Farhadian
Ferdowsi University of Mashhad, Iran
Theoretical Study of the Transport Phenomena of Ibuprofen Chiral Molecules Inside Nanopores of Lysozyme Protein Crystal

4. [1]Tcherniavskaia E.A., [1]Saetchnikov V.A., [2]Schweiger G., [2]Ostendorf A., [1]Saetchnikov A.V.
[1]Belarusian State University, Minsk, Belarus
[2]Ruhr-University Bochum, Germany
Identification of biological agents and drug products on the basis of optical resonance of whispering gallery modes in dielectric microspheres

5. R.Mehrab[1], A. A Imani Fooladi[2], N.Amir Mozafari[3], MR.Nourani[4]
[1]Department of Microbiology, Science and Research Branch, Islamic Azad University, Tehran, Iran;
[2]Applied Microbiology, Research Center, Baqiyatallah University of Medical Science, Tehran, Iran;
[3]Department of Microbiology, Tehran University of Medical Sciences, School of Medicine, Tehran, Iran;
[4]Chemical Injury, Research Center (CIRC), Baqiyatallah University of Medical Sciences, Tehran, Iran
Antibacterial Activity Of Nanosilver Colloidal Solution Against ESBL-Producing Pseudomonas Aeruginosa

6. M. R. Nourani[1], A. A. Imani Fooladi[2]
[1]Tissue Engineering Division, Baqiyatallah medical Sciences University, Tehran, Iran
[2]Applied microiology Research Center, Baqiyatallah medical Sciences University, Tehran, Iran
Application of Nano-Bioglass in Bone Tissue Engineering

7. G. A. Kojouri, A. Kojouri, M. Shahnamnia
Department of Clinical Sciences, School of Veterinary Medicine, Shahrekord University, Shahrekord, Iran.
Some Physiological Aspects of Nano Selenium Particles in Compare with Sodium Selenite

17.20-17.40 Coffee Break

18.30-21.30 Conference Dinner

Friday, June 29, 2012

09.30-10.50

Section « Nanomagnetism»

1. N.A. Poklonski, S.A. Vyrko, S.V. Ratkevich and E.F. Kislyakov
Belarusian State University, Minsk, Belarus
Magnetic moments of star and ring conformations of C_{10} molecule

2. A.V. Trukhanov[1], S.S. Grabchikov[1, S.A. Sharko1] and N.N. Mukhorov[2]
[1]SSPA "Scientific-Practical Material Research Centre of NAS of Belarus", Minsk, Belarus.
[2]B.I. Stepanov Institute of Physics, National Academy of Sciences of Belarus, Minsk, Belarus
Magnetoresistive properties of Co/Cu and Ni/Cu multilayered nanowires

3. M. M. Alavi Nigjeh
Department of Chemistry, Faculty of Science, Imam Khomeini International University, Qazvin, Iran
Magnetic Polyurethane Rigid Foam Nanocomposites Synthesis and Characterization

4.Govor G.A., Vetcher A.K., Mitsiuk V.I.
SSPA "Scientific-Practical Material Research Centre of NAS of Belarus", Minsk, Belarus.
Development and application new composite soft magnetic materials with nanoscale coatings

09.30-10.50

Section « Nanosensors»

1. S. Nikmanesh[1,2], M. M. Doroodmand[2,3], M.H. Sheikhi[1,2]
[1]School of Electrical and Computer engineering, University of Shiraz, Shiraz, Iran
[2]Nanotechnology Research Institute, University of Shiraz, Shiraz, Iran
[3]Department of Chemistry, College of Sciences, Shiraz University, Shiraz 71454, Iran
Fabrication of CH4 Sensor Using Inter-Digitated Electrode, Modified with Tungsten Carbide/Tin Oxide Core-Shell

2. S.E. Demyanov, E.Yu. Kaniukov and A.V. Petrov
SSPA "Scientific-Practical Material Research Centre of NAS of Belarus", Minsk, Belarus
Nano- and Microelectronic Systems Based on Flexible Polymer Films with Swift Heavy Ion Tracks

3. S.E. Demyanov, N.A. Kalanda and L.V. Kovalev
SSPA "Scientific-Practical Material Research Centre of NAS of Belarus", Minsk, Belarus
Devices based on Magnetic Tunnel Junctions of Sr_2FeMo_{6-d} Complex Oxides for Spintronic Applications

4. S.E. Demyanov, E.Yu. Kaniukov and A.V. Petrov
SSPA "Scientific-Practical Material Research Centre of NAS of Belarus", Minsk, Belarus
Low-Temperature Magnetic Field Sensors Based on Si/SiO2/Metal Nanostructures

10.50-11.30 Coffee Break

11.30-13.30

Section « Nanophotonics»

1. M.R. Khanlary[1*], A. Hajinorozi[1], S. Baghshahi[2]
[1]Physics Department, Imam Khomeini International University, Qazvin, Iran
[2]Material Science Department, Imam Khomeini International University, Qazvin, Iran
Influence of dopant concentration on the characterization of sole-gel derived ZnO:Ce nanostructures

2. S.F.Akhtarian far, A.Ramazani – Institute of Nanoscience and Nanotechnology, University of Kashan, Kashan, Iran
Effect of Y_2O_3 Nanoparticles on Propagation of Ultrashort Pulse in Silica Optical Fibre Made by Solution Doping Technique

3 .E. V. Klyachkovskaya, S.V. Vaschenko, N.D. Strekal, and S.V. Gaponenko
B.I. Stepanov Institute of Physics, National Academy of Sciences of Belarus, Minsk, Belarus
Nanoplasmonic Enhancement of Raman Scattering from Inorganic Crystallites

4. O. S. Kulakovich
B.I. Stepanov Institute of Physics, National Academy of Sciences of Belarus, Minsk, Belarus
Nanoengineering of colloidal structures for ultrasensitive spectral-analytical applications

5. H.R. Zangeneh[1,] M. Asadniafard Jahromi[1], F. Karimi Moghadam[1,2]
[1]Department of photonics, University of Kashan
[2]Department of Physics, Malayer Branch, Islamic Azad University
Investigation of Photonic Crystal Slabs by FDTD Method

6. M. Nikoufard[1], A. Mirzaei[2], M. Omidi Roozbahani[2]
[1]Department of Electrical Engineering, Faculty of Engineering, University of Kashan, Kashan, Iran
[2]Department of Electrical Engineering, Faculty of Engineering, South Tehran Branch, Islamic Azad University, Tehran, Iran
Photonic Crystal-Based Polarization Splitter on InP substrate

11.30-13.30

Section « Nanosensors»

1. A.V. Trukhanov[1], A.I. Stognij[1], S.V.Trukhanov[1], N.N.Novitskij[1], A.N.Vasiliev[2] and V.A.Ketsko[3]
[1] SSPA "Scientific-Practical Material Research Centre of NAS of Belarus", Minsk, Belarus.
[2]Low temperatures physics and superconductivity department, MSU named after M.V. Lomonosov, Moscow, Russia
[3]Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russia
Structure, magnetic and magnetotransport properties of $Mg(Fe_{0.8}Ga_{0.2})_2O_{4-d}$ thin films on Si substrates

2. V.V. Khatko[1], G.G. Gorokh[2,] I.A. Taratyn[1,3] and [Yu.M.] Pleskachevskij[1]
[1] Belarussian National Technical University/Micro- and NanoEngineering Department, Minsk, Belarus
[2] Belarus State University of Informatics and Radioelectronics/Research Laboratory of Nanotechnology, Minsk, Belarus
[3] Minsk Research Institute of Radiomaterials/MicroMechanics Department, Minsk, Belarus
Low-Power Chemical Sensors Based on Nanoporous Anodic Alumina Substrates

3. L.P. Grakovich, M.I. Rabetsky, D.A. Tulin and L.L. Vasiliev
Heat and Mass Transfer Institute, National Academy of Sciences of Belarus, Minsk, Belarus
Heat pipe evaporations with nanoporous coating

4. V. Labunov, B. Shulitski, A. Tymoshchyk, Y. Tamashevich
Belarus State University of Informatics and Radioelectronics, Minsk, Belarus
Synthesis of aligned carbon nanotubes arrays for field emission application

13.30-15.00 Lunch

15.00-16.30 - Interactive Visual Presentations

16.30-17.15 - General discussion on closing the conference

Poster presentation

International Conference on Modern Applications of Nanotechnology (IBCN12) 27-29 June 2012, Minsk, Belarus

1. Development & Sinthesis of Nickle–Nylon Smart Nanocomposites

Ma. Ganjali[1], Mo. Ganjali[2], A. Naimzad[3]
[1,2]Materials and Energy Research Centre, Nanothecnology and Advanced Materials Department, Meshkindasht, Karaj, Iran
[3]Tarbiat Modares University, Faculty of Engineering, Jalal Ale Ahmad Highway,Tehran, Iran

2. A Nano-scale Structural Study of Hydrophobic Nanostructured Adsorbents

A. Khosravi[1], A. Golchoobi[2], M. Moshtaghi[3], M. Safdari[4]
[1]School of Chemical Engineering, College of Engineering, University of Tehran, Tehran, Iran
[2]Chemical Engineering Department, Tarbiat Modares University, Tehran, Iran
[3]Chemical Engineering Department, Islamic Azad University of North Tehran, Tehran, Iran
[4]Chemical Engineering Department, Islamic Azad University of Dashtestan, Borazjan, Iran

3. Production, Evaluation and Usage of Zero-Gel Nano-Composite Cu-SiO_2 by Chemical Methods

A.Sattari , N.Shadanpoor , P.Ashtari
Agriculture, Medicine and Industry Research School, Karaj-Iran

4. Synthesize of ZnO Nanoparticles via a Sonochemical Method

Monireh Ganjali[1], Mansoureh Ganjali[1], A. Hassanjani[1], S. M. Kazemzadeh[1], M. R. Vaezi[1]
[1]Materials and Energy Research Center (MERC), Tehran, Iran

5. Preparation of Iron Oxide Ionic Ferrofluid and Investigation Its Properties

H. Asnaashari Eivari[1], Z. Sohbatzadeh[1] , H. Arabi[2], A. Rahdar[1]
[1]Science department, University of Zabol, Zabol, Iran
[2]Science department, University of Birjand, Birjand, Iran

6. Preparation of Polypropylene Nano Composite Containing Tio_2 and Zno and Evaluation of Antibacterial Activity Against Escherichia Coli

M.T. Hamed Mosavian[1], L. Seyedi[2], P. Vali pour[3]
[1]Ferdowsi University of Mashhad, Chemical Engineering Department
[2]Islamic Azad University, Ghouchan Branch
[3]Islamic Azad University, Ghaemshar Branch

7. Synthesis of TiO_2-Polyaniline Nanocomposite in Core-Shell Structure and Investigation of its Photocatalytic Activity

A. Olad, S. Behboudi
Polymer Composite Research Laboratory, Department of Applied Chemistry, Faculty of Chemistry, University of Tabriz, Tabriz, Iran

8. Determination of Trichloroacetic Acid (TCAA) Using CdO Nanoparticles Modified Carbon Paste Electrode

M. Najafi[1], B. Ahmadian[1], S. Darabi[1],A. Tajarodi[2], M. Imani[2], K. Rezanasab[1], A. Samimifar[1]
[1]Department of Chemistry, Faculty of Science, Imam Hossein University, Tehran, Iran
[2]Research Laboratory of Inorganic Materials Synthesis, Department of Chemistry, Iran University of Science and Technology, Tehran, Iran

9. Experimental investigation of natural convection heat transfer of CuO/Turbine oil nanofluids in square enclosure

M. borhanipour[1], S. zeinali. H[2], S. H. Noie. B[3]
[1]Msc student, Department of Chemical Engineering, Ferdowfi Univercity Of Mashhad, Iran
[2]Assistant Professor, Department of Chemical Engineering, Ferdowfi Univercity Of Mashhad, Iran
[3]Professor, Department of Chemical Engineering, Ferdowfi Univercity Of Mashhad, Iran

10. Polyurethane Rigid Foams Nanocomposites Based on Surface Modified Nanosilica

M. M. Alavi Nigjeh
Department of Chemistry, Faculty of Science, Imam Khomeini International University, Qazvin, Iran

11. Synthesis and Characterization of UV-Curable Epoxy Acrylate/ZnO Nano Hybrid as an Anti Corrosion Coatings

F. Najafi[1], B. Shirkavand Hadavand[1], A. Mirshokrai[2], S. Ghotbi[2]
[1]Department of Resin and Additives, Institute for Color Science and Technology, Tehran, Iran
[2]Department of Organic Chemistry, Tehran Payamenoor University, Tehran, Iran

12. Effect of nano ZnO on Thermal and Antibacterial Properties of Polyester Powder Coatings

B. Shirkavand Hadavand[1], M. Ataeefard[2], H. Fakharizadeh Bafghi[1]
[1]Department of Resin and Additives, Institute for Color Science and Technology, Tehran, Iran
[2]Department of Printing Science and Theology, Institute for Color Science and Technology, Tehran, Iran

13. The Effect of Nano Al_2O_3 on Properties of Metallic Bonding Powder Coatings

B. Shirkavand Hadavand[1], H. Fakharizadeh Bafghi[1], M.Seddighian[2]
[1]Department of Resin and Additives, Institute for Color Science and Technology, Tehran, Iran
[2]Research and Development of Peka Chemie Powder Coatings Co, Tehran, Iran

14. Study on the Size and Structure of ITO Nanoparticles Prepared by Oxalate and Pechini Method

M. Farahmandjou
Department of Mathematics, Varamin Pishva Branch, Islamic Azad University, Varamin, Iran

15. The Wiener Index of Nanocones

Z. Mohammad-Abadi, A. R. Ashrafi
Institute of Nanoscience and Nanotechnology, University of Kashan, Iran

16. InP-Based Photonic Crystal Electro-Optic Modulator

M. Nikoufard[1], S. Amadeh[2]
[1]Department of Electrical Engineering, Faculty of Engineering, University of Kashan, Kashan, Iran
[2]Department of Electrical Engineering, Faculty of Engineering, South Tehran Branch, Islamic Azad University, Tehran, Iran

17. Hydrogen Sensor Based on Carbon Nano-tube Fortified by Palladium

A. Kazemzadeh, A.F. Hessari, M. Kashani, H. Azizi and N. Jafari
Materials & Energy Research center, Tehran, IRAN

18. Synthesis and characterization of MWCNT/CdS nanocomposite

M.R. Khanlary, M.Keshavars
Physics department of Imam Khomeini international university, Qazvin, IRAN

19. Super Hydrophobic Property of the Nylon Fabric Using Silica Nanoparticles

M. Saeidi[1], R. Khajavi[2], M. E. Yazdanshenas[3]
[1,2]Department of textile, Islamic Azad University, South-Tehran branch, Tehran, Iran
[3]College of textiles, Islamic Azad University, Yazd branch, Yazd, Iran

20. A Molecular Simulation Study of Stability Behavior of Charged Nanoparticles

A. Golchoobi[1], A. Khosravi[2], M. Safdari[3], M. Moshtaghi[4]
[1]Chemical Engineering Department, Tarbiat Modares University, Tehran, Iran
[2]School of Chemical Engineering, College of Engineering, University of Tehran, Tehran, Iran
[3]Chemical Engineering Department, Islamic Azad University of Dashtestan, Borazjan, Iran
[4]Chemical Engineering Department, Islamic Azad University of North Tehran, Tehran, Iran

21. Application of Nanotechnology for Activation of Cement Replacement Materials

Azadeh Askarinejad, Ali Reza Pourkhorshidi, Tayebeh Parhizkar
Department of Concrete, Building and Housing Research Center (BHRC), Tehran, Iran

22. Circuit Model Analysis of Quantum Wire Infrared Photodetectors

H. Barickaby[1], H. Dehdashti Jahromi[1,2], A. Zarifkar[1], M. H. Sheikhi[1,2]
[1]School of Electrical and Computer Engineering, Department of Communications & Electronics, Shiraz University, Shiraz, Iran
[2]Nano Technology Research Institute, Shiraz University, Shiraz, Iran

23. Surface plasmon absorption of Iron nanoparticles

R. Khordad[1], B. Mirhosseini[2]
[1]Department of Physics, College of Sciences, Yasouj University, Yasouj, Iran
[2]Department of Physics, College of Sciences, Yasouj University, Yasouj, Iran

24. Computational Study of Thermodynamical Characteristics and Spectroscopic properties of Nano Bio complexes of Adenineand Nicotinic Acid with Fullerenes

B. Hormozi[1], A.A. Taherpour[2], A. Jafari[3]
[1]Member of Chemistry Scientific Association, Islamic Azad University, Arak Branch, Arak, Iran
[2]Chemistry Department, Facullty of science, Islamic AzadUniversity, Arak Branch, Arak, Iran.
[3]Young Researchers Club, Arak Branch, Islamic Azad University, Arak, Iran

25. Quantum Interference Control of Ballistic Magnetoresistance in Magnetic Nanowire Containing two Atomic-Size Domain Walls by Applying a Lateral Gate Potential

V. Fallahi[1], M. Ghanaatshoar[2]
[1]Department of Optics and Laser Engineering, University of Bonab, Bonab, Iran
[2]Laser and Plasma Research Institute, Shahid Beheshti University, Tehran, Iran

26. Effect of GaAs/AlAs Nano Layer in Bragg Mirror on Consecutive Single Edge Diffraction with Helium-Neon Laser

M. R. Farzannya[1], J. Soltanmohammadi[1]
[1]Technical and Engineering College, Islamic Azad University of Bonab, Bonab, Iran

27. Economic Investigation of Alumina Nanofluid Application in an Industrial Shell and Tube Heat Exchanger

N.Farhadian[1], Ali Baratian[2]
[1]Assistant Professor of Chemical Engineering, Ferdowsi University of Mashhad, Mashhad, I. R. Iran.
[2]Chemical Engineering Department, Ferdowsi University of Mashhad, Mashhad, I. R. Iran

28. Synthesis and Characterization of Nano-Sized Hexagonal and Spherical Nanoparticles of Zinc Oxide

S. M. Borghei[1], M. A. Moghri Moazzen[2], F. Taleshi[3]
[1]Department of Physics, Karaj Branch, Islamic Azad University, Karaj, Iran
[2]Young Researchers Club, Karaj Branch, Islamic Azad University, Karaj, Iran
[3]Department of Applied Sciences, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran

29. Electromagnetically Induced Transparency of a Two-Dimensional Hexagonal Quantum Dot

B. Vaseghi[1], G. Rezaei[1], S. M. Azami[2], N. Mohebi[1]
[1]Department of Physics, College of Sciences, Yasouj University, Yasouj, Iran
[2]Department of Chemistry, College of Sciences, Yasouj University, Yasouj, Iran

30. Absorption of Water-Solute Dyes with Ferro-Fluid Modified Saccaharomycescervisiaecells

N. Maleki-Jirsaraei[1], R.Hosseinifar[1]
[1]Complex Systems Lab, Department of Physics, Alzahra, University, Tehran, Iran

31. Synthesis and Studies of Magnetic Properties of Nickel and Nickel Oxide Nanoparticles

S. F. Taghizadeh[1], M. Mehrabi[2], K.Kamali[1], B.Vaseghi[1]
[1]Department of Physics, Yasouj University, Yasouj, Iran
[2]Institute of nanoscience and nanotechnology, University of Kashan, Kashan, Iran

32. Hydrostatic Pressure Effects on the ElectronicEnergy Levels of a Quantum Dot Confined at the Centerof a Nano-wire

Gh. Safarpour[1], M. Barati, M. Moradi
[1]Department of Physics, College of Science, Shiraz University, Shiraz, Iran

33. Synthesis of Maghemite Nano-particles and Its Application As Radionuclidic Adsorbant to Purify ^{109}Cd Radionuclide

M. Sadeghi, P. Sarabadani
Agricultural, Medical and Industrial Research School, Nuclear Science and Technology Research Institute, Karaj, Iran

34. Influence of Additives on the Structural and Morphological Properties of Zinc Oxide Powders

Javad Moghaddam, Sara Mollaesmail
Materials and Metallurgical Engineering Department, Advanced Materials Research Center, Sahand University of Technology, P.O. Box: 51335-1996, Tabriz, Iran

35. Sol-Gel Derived Bioactive Glass Containing SiO_2- MgO-CaO-P_2O_5 As An Anti-Bacterial Scaffold

[1]A A. Imani Fooladi, [1]F.Rahmani, [2]HM. Hosseini , [3]F. Hafezi, F. Hosseinnejad, [3]MR. Nourani

[1]Applied Microbiology, Research Center Baqiyatallah University of Medical Sciences, Tehran, Iran
[2]School of Pharmacy, Student's Research Committee, Tabriz University of Medical Science, Tabriz, Iran
[3]Tissue Engineering Division, Baqiyatallah University of Medical Sciences, Tehran, Iran

36. Application of Nano-Titanium Sealants to Improve the Operational Performance of Highway Pavements

J. Tanzadeh, F. Vahedi
Tehran Department of Transportation, Between Khaghani & Narmak St., Damavand St., Tehran

37. Experimental Investigation of the Performance of Nano-Modified Hot Mixed Asphalt Mixtures

F. Vahedi, J. Tanzadeh
Tehran Department of Transportation, Between Khaghani & Narmak St., Damavand St., Tehran

38. Electrokinetic manipulation of Nano-sized materials in microfabricated Devices

M.Bayati[1], P.R.Fielden[2], G.H.Markx[2], N.J.Goddard[2], S.R.Mahmoodi[1]
[1]School of Advanced Medical Technologies, Tehran University of Medical Sciences, Tehran, Iran
[2]School of Chemical Engineering and Analytical Science, University of Manchester, UK

39. 3D Numerical study of motion of nanodroplets on wetting Gradients

A.Mohammadi[1], A. Moosavi[1]
[1]Dept. Mech. Eng., Sharif University of Technology, Tehran, Iran

40. New Solid State Sensors for Gas Detection Based on Nano-Carbon Tubes–Fe2O3-ZnO

A. Kazemzadeh and Mansoureh Ganjali
Materials & Energy Research Center, Tehran, IRAN

41. Super Hydrophobic Property of the Polyester Fabric Using Silica Nanoparticles

M. Saeidi[1], R. Khajavi[2], M. E. Yazdanshenas[3]
[1,2]Department of textile, Islamic Azad University, South-Tehran branch, Tehran, Iran
[3]College of textiles, Islamic Azad University, Yazd branch, Yazd, Iran

42. Magnetic Nanoparticles for Enhancing Immunosensor Sensitivity

S. Nourani[1], H. Ghourchian[1]and S. M. Boutorabi[2]
[1]Laboratory of Microanalysis, Instituteof Biochemistry and Biophysics, University of Tehran, Tehran, Iran
[2]Pishtazteb Medical Company, Tehran, Iran

43. Synthesis and Functionalize Fe3O4 Nano-Particles with Several Coating Agents

Maleki-Jirsaraei, Nahid[1]; Ghane-Motlagh, Bahare[1,2]; Ghane-Golmohamadi,Farzin[1,3]; Hosseinifar, Rahil[1]; Kalantari, Mona[1]; Ghane-Motlagh Rayhane[1,2]; Hamed, Yalda[1,4]; Kabi, Sara[1]; Alizadeh, Elahe[1,5;]
[1]Complex Systems Lab, Physics Department, Alzahra University, Tehran, Iran
[2]Physics Department, Azad University, Central Tehran Branch, Tehran, Iran
[3]Physics Department, Tarbiat Modares University, Tehran, Iran
[4]Physics Department, Islamic Azad University, Science and Research Branch, Tehran, Iran
[5]Laser Institute, Shahid Beheshti University, Tehran, Iran

44. Synthesis and Characterization of Tin Oxide Nanoparticles by Solid State Chemical Reaction Method

P. Sarabadani, M. Sadeghi, M. Ghasemi, Z. Asadollahi
Agricultural, Medical and Industrial Research School, Nuclear Science and Technology Research Institute, Karaj, Iran

45. Improving UV Stabilization of Polyamide Nylon 6 Fabrics Using Nano ZnO

R. Khajavi[1], M. Saeidi[2], M. E. Yazdanshenas[3]
[1,2]Department of textile, Islamic Azad University, South-Tehran branch, Tehran, Iran
[3]College of textiles, Islamic Azad University, Yazd branch, Yazd, Iran

46. Oxidation Bleaching of Antimicrobial Functionalized Non-Woven Polypropylene Fabrics Containing silver Nanoparticles

R. Khajavi[1], M. Saeidi[2], M. E. Yazdanshenas[3]
[1,2]Department of textile, Islamic Azad University, South-Tehran branch, Tehran, Iran
[3]College of textiles, Islamic Azad University, Yazd branch, Yazd, Iran

47. Structural and Optical Properties of Cerium doped Calcium fluoride Nanoparticles prepared by Copercipitation

M.R. Khanlary[1*], S.Ghammami[2], M. Ghomi Gilvaee[1]
[1] Physics department of Imam Khomeini international university, Qazvin, IRAN
[2] Chemistry department of Imam Khomeini international university, Qazvin, IRAN

48. Preparation of $ZnAl_2O_4$ Nano-Particle by Hydrothermal-Assisted Sol-gel Processing

M. Mirzaee, B. Bahramian, S. Mazaheri
Department of Chemistry, Shahrood University of Technology, Shahrood, I. R. Iran

49. The Use of TiO_2 to Enhance the Efficiency of Si Solar Cells Structures

M. Moradi, Z. Rajabi
Institute of Nanoscience and Nanotechnology, University of Kashan, Kashan, Iran

50. Zagreb Coindices of Some Nano Structures

G. H. Fath-Tabar
Department of Mathematics, Faculty of Mathematical Sciences, University of Kashan, Kashan, I. R. Iran

51. Structural and Optical Properties of Cerium doped Calcium fluoride Nanoparticles prepared by Copercipitation

M.R. Khanlary[1], S. Ghammami[2], M. Ghomi Gilvaee[1]
[1]Physics department of Imam Khomeini international university, Qazvin, IRAN
[2]Chemistry department of Imam Khomeini international university, Qazvin, IRAN

52. Research and Elaboration of Ceramic Calcium-phosphate Implant Material for Replacing of Bone tissue

T.M. Ulyanova, L.V. Titova
Institute of General and Inorganic Chemistry of NAS of Belarus, Minsk, Belarus

53. Creating Metallic Nanostructures Using Galvanic, Membrane and Capillary Methods with Atomic Force Microscopy

S.O. Abetkovskaia, S.A. Chizhik, V.V. Chikunov
The A. V. Luikov Heat and Mass Transfer Institute of the National Academy of Sciences of Belarus, Minsk, Belarus

54. Defects in graphene: topology and nanophotonics applications
N.A. Poklonski, A.T. Vlassov, S.A. Vyrko and S.V. Ratkevich
Belarusian State University, Minsk, Belarus

55. Carbon nanotube on silicon substrate as form of p-n junction solar cells
D.S. Bychanok[1], S.A. Maksimenko[1],
E.V. Lobyak[2], A.G. Kurenya[2], D.V. Gorodetskiy[2], A.V. Okotrub[2]
[1] Institute for Nuclear Problems, Minsk, Belarus
[2] Nikolaev Institute of Inorganic Chemistry, Novosibirsk, Russia

56. Microstructure of indium sulfide films for thin film solar cells
H. Izadneshan[1], V.F. Gremenok[1] and I.N. Tsyrelchuk[2]
[1]Scientific-Practical Materials Research Centre of the NAS of Belarus, Minsk, Belarus
[2]Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus

57. Peculiarities of nanorelief surface of polycrystalline columnar $Pb_{1-x}Sn_xTe$ films on glass substrates after plasma sputtering
S.P. Zimin[1], I.I. Amirov[2], V.V. Naumov[2], G.A. Dubov[1], V.F. Gremenok[3] and H.G. Seidi[3]
[1] Microelectronics Department, Yaroslavl State University, Yaroslavl, Russia
[2] Yaroslavl Branch of the Institute of Physics and Technology of Russian Academy of Sciences, Yaroslavl, Russia
[3] Scientific-Practical Materials Research Centre of the National Academy of Sciences of Belarus, Minsk, Belarus

58. New nanosilica suspensions for chemical-mechanical polishing of monocrystalline silicon wafer
Ya.A. Kosenok[1], V.E. Gaishun[1], O.I. Tyulenkova[1], V.G. Denisman[2], O.A. Matyushonok[2]
[1]F. Skorina Gomel State University, Gomel, Belarus
[2]"Kamerton" subsidiary of INTEGRAL JSC, Pinsk, Belarus

59. Hydrophilic self-cleaning sol-gel coating based on titanium oxide and silicon
D.L. Kovalenko[1], A.V. Semchenko[1], V.E. Gaishun[1], V.V. Vaskevich[1]
[1] F. Skorina Gomel State University, Gomel, Belarus

60. Nanodispersed powders of super hard composite material
D.L. Kovalenko[1], V.E. Gaishun[1], V.V. Vaskevich[1], O.V. Ignatenko[2]
[1] F. Skorina Gomel State University, Gomel, Belarus
[2] State Scientific and Production Association "Scientific-Practical Materials Research Centre of the
National Academy of Sciences of Belarus", Minsk, Belarus

61. Thermomagnetic properties of (Ni-Cu) nanoparticles
V.G.Leontyev
A.A. Baikov Institute of Metallurgy and Material Science RAS, Russia, Moscow

62. One-dimensional nanoscale structures of PbTe – SnTe mixed crystals for optoelectronic and thermoelectric applications
V.G. Leontyev[1], L.D. Ivanova[1], K. Bente[2], V.F. Gremenok[3]
[1]A.A. Baikov Institute of Metallurgy and Material Science, RAS, Moscow, Russian

[2]Institut für Mineralogie, Kristallographie und Materialwissenschaft, Leipzig University, Leipzig, Germany
[3]Scientific-Practical Materials Research Centre of the NAS of Belarus, Minsk, Belarus

63. Optical and structural characteristics cubic boron nitride with ions Nd

S.V. Leonchik[1], A.V. Karotki [1]
[1] SSPA "Scientific-Practical Materials Research Centre of NAS of Belarus", Minsk, Belarus

64. Influence of silicon activation conditions on the morphology of electroless deposited nickel-phosphorus coatings

M.S.Lipai[1], V.G. Sokolov[2]
[1] Belarusian State University, Minsk, Belarus
[2] Research Institute for Physical-Chemical Problems of Belarusian State University, Minsk, Belarus

65. Effect of Initial Powder Dispersity on the Physical and Mechanical Properties of SiC Ceramics Sintered at High Pressure

V.S. Urbanovich[1], A.M. Makei[1,] P. Klimczyk[2], L. Jaworska[2], V.S. Niss[3] and L.V. Sudnik[4]
[1]Scientific-Practical Materials Research Centre NAS of Belarus, Minsk, Belarus
[2]The Institute of Advanced Manufacturing Technology, Krakow, Poland
[3]Belarusian National Technical University, Minsk, Belarus
[4] Researche Institute of Impulse Processes with Pilot Factory, Minsk, Belarus

66. Anomalous retroreflection from strongly absorbing nanoporous semiconductors

S. Ya. Prislopski and S.V.Gaponenko
B. I. Stepanov Institute of Physics, National Academy of Sciences of Belarus, Minsk, Belarus

67. Plasmon-enhanced Fluorescence of Alexa Fluor 488 Molecules near Silver Nanoparticles

A.A. Ramanenka[1], S.V. Vaschenko[2,3] and S.V. Gaponenko[3]
[1] Belarusian State University, Department of Physics, Minsk, Belarus
[2] Belarusian State University, Department of Chemistry, Minsk, Belarus
[3] Stepanov Institute of Physics, National Academy of Sciences of Belarus, Minsk, Belarus

68. Application of sol-gel $Sr(Bi_xTa_x)O_9$ layers in the non-volatile memory (FRAM)

A.V. Semchenko[1], V.V. Sidsky[1], V.E. Gaishun[1], V.V. Kolos[2], A.S. Turtsevich[2], S.A. Soroka[2], A.N. Asadchyi[2]
[1]Francisk Scorina Gomel State University, Gomel, Belarus
[2]JSC «Integral», Minsk, Belarus

69. The use of sol-gel method for the formation of the active ZnO layers of solar cells

A.V. Semchenko[1], V.V. Sidsky[1], V.E. Gaishun[1], V. V. Malyutina-Bronskaya[2], A.M. Polikanin[2], V.B. Zalesskiy[2]
[1]Francisk Scorina Gomel State University, Gomel, Belarus
[2]Institute of Physics, NAS of Belarus, Minsk

70. Effect of High Pressure Sintering Nanocarbon Conditions on Formation and Fine Structure of Superhard Phase

V.S. Urbanovich[1], A Kuis D.V.[2], Okatova G.P.[2], Svidunovich N.A.[2], Oichenko V.M.[3], Baran L.V.[4]
[1] Scientific-Practical Materials Research Centre NAS of Belarus, Minsk, Belarus
[2]Belarussian State Technological University, Minsk, Belarus

[3]A.F.Ioffe Physico-technical Institute RAN, St.-Petersburg, Russia
[4]Belarussian State University, Minsk, Belarus

71. Metallfullerene Nanocomposites

E.M. Shpilevsky[1], M.E. Shpilevsky[1], G.G.Gorokh[2]
[1]Heat and Mass Transfer Institute NAS of Belarus, Minsk, Belarus
[2]Belaruss State University of Informatics and Radioelectronics, Minsk, Belarus

72. Compositionally graded BST ceramics: composition, structure and properties

V.N. Shut, S.R. Syrtsov, V.L. Trublovsky
Institute of Technical Acoustics, National Academy of Sciences, Vitebsk, Belarus

73. Effect of the Crystallinity of $BaTiO_3$ Powders on the Properties of PTCR Ceramics

V. N. Shut, S. V. Kostomarov
Institute of Technical Acoustics, National Academy of Sciences, Vitebsk, Belarus

74. Influence of Excitation Induced Shift on Lasing in Quantum Dot Lasers

G.A. Rusetsky[1], O.Kh. Khasanov[1], V.V. Samartsev[2]
[1)] SSPA "Scientific-Practical Matherial Research Centre of NAS of Belarus", Minsk, Belarus.
[2)] Zavoisky Physical-Technical Institute, Russia

75. Polymer- Organoclay Nanohybrids Carrying Silver Ions: Synthesis and Antibacterial Properties

Z. M. O. Rzayev[1], F. Moghtader[1], S. Ismayilova[3], K. Salimi[2], E. Pişkin[2]
[1]Hacettepe University, Nanotechnology and Nanomedicine Department and
[2]Chemical Engineering Department, Bioengineering Division and
Bioengineering R&D Center - Biyomedtek, Ankara, Turkey

76. Dressings Carrying Silver Nanoparticles: Antibacterial Properties and Cytotoxities

F. Moghtader[1], M. Türk[3], M. Saluti[4], E. Pişkin[2]
[1]Hacettepe University, Nanotechnology and Nanomedicine Department and
[2]Chemical Engineering Department, Bioengineering Division and
Bioengineering R&D Center - Biyomedtek, Ankara, Turkey
[3]Department, Kırıkkale University, Kırıkkale, Turkey
[4]Zencan Azad University, Microbiology Department, Zencan, Iran

77. Dielectric characteristics of $Ba_{1-x}La_xTiO_3$ ceramics with submicron grain size

V.N. Shut[1], S.R. Syrtsov[1], V.L. Trublovsky[1], D.A. Ilyuschenko[2]
[1] Institute of Technical Acoustics, National Academy of Sciences, Vitebsk, Belarus
[2] Vitebsk Plant of Electronic Components "Monolit", Vitebsk, Belarus

78. SnS-PbS Nanorods Grown on Isochemical Thin Films for Thermoelectric and Photovoltaic Application

V.V. Lazenka[1], K. Bente[2], V.F. Gremenok[3] V.A. Ivanov[3] and I.N. Tsyrelchuk[4]
[1] Institute for Nanoscale Physics and Chemistry (INPAC), KU Leuven, Celestijnenlaan 200D, Leuven 3001, Belgium
[2] Institut für Mineralogie, Kristallographie und Materialwissenschaft, University of Leipzig, 04275 Leipzig, Germany
[3]SSPA "Scientific-Practical Matherial Research Centre of NAS of Belarus", Minsk, Belarus.
[4]Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus

79. Dielectric characteristics of Ba 1-XLaXTiO3 ceramics with submicron grain size

V.N. Shut
Institute of Technical Acoustics, National Academy of Sciences, Vitebsk, Belarus

80. Polymer-Dispersed Liquid Crystal Films: Homogeneous and Inhomogeneous Adhesion of Liquid Crystal Molecules on the Interface Polymer-Liquid Crystal

V.A. Loiko[1], V.Ya. Zyryanov[2], A.V. Konkolovich[1], A.A. Miskevich[1]
[1] Stepanov Institute of Physics of the National Academy of Sciences of Belarus, Minsk, Belarus
[2] Kirenski Institute of Physics of the Siberian Branch of the Russian Academy of Sciences, Krasnoyarsk, Russia

81. Mononuclear Morphometry as Indicator to Distinguish Between Acute Limphoid and Mieloid Leukemias

G. I. Ruban, N. V. Goncharova, D. V Marinitch., and V. A. Loiko
[1] Stepanov Institute of Physics of the National Academy of Sciences of Belarus, Minsk, Belarus
[2] Center of Transfusiology and biomedicine technologies, Ministry of Health of Belarus, Minsk, Belarus

82. The Absorption of Light in Solar Cells Based on Multilayer Structures of Dispersed Silicon: Theoretical Analysis

A.A. Miskevich, V.A. Loiko
Stepanov Institute of Physics of the National Academy of Sciences of Belarus, Minsk, Belarus

83. HEAT PIPE EVAPORATORS WITH NANOPOROUS COATING

L.L. Vasiliev, L.P. Grakovich, M.I. Rabetsky, D.A. Tulin
Heat and Mass Transfer Institute, National Academy of Sciences of Belarus, Minsk, Belarus

84. Electronic and Optical Properties of Doped Titanium Dioxide

Sh. Khaleghi, V.L. Shaposhnikov, D.B. Migas, U.B. Butsko, V.E. Borisenko
Department of Micro- and Nanoelectronics, Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus

85. Calculation of Electronic Properties of Pure and Defected Molybdenum Disulfide Nanostructure

A.V. Krivosheeva, V.L. Shaposhnikov, V.E. Borisenko, R. Ghomi Khameneh
Department of Micro- and Nanoelectronics, Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus

86. Plasmonic Nanostructures Based on Metallized Porous Silicon for SERS

K. Artsemyeva[1], H. Bandarenka[1], A. Panarin[2], and S. Terekhov[2]
[1]Belarusian State University of Informatics and Radioelectronics/ Micro- and Nanoelectronics Department, Minsk, Belarus
[2]National Academy of Sciences of Belarus/ B.I. Stepanov Institute of Physics, Minsk, Belarus

87. Nanostructured porous silicon in solid-state microreactors

A. Klyshko
Belarusian State University of Informatics and Radioelectronics /Micro- and nanoelectronics department, Minsk, Belarus

88. Nickel - porous silicon magnetic nanocomposite

A.L. Dolgiy, S.L. Prischepa, S.V. Redko
Belarusian State University of Informatics and Radioelectronics /Micro- and nanoelectronics department, Minsk, Belarus

89. Hydrothermal deposition of ZnO nanostructures on silicon wafers

E. Chubenko and A. Klyshko
Belarusian State University of Informatics and Radioelectronics /Micro- and nanoelectronics department, Minsk, Belarus

90. Temperature dependence of resistivity of porous silicon formed on n+ substrates

S.V. Redko, S.L. Prischepa and V.A. Petrovich
Belarusian State University of Informatics and Radioelectronics /Micro- and nanoelectronics department, Minsk, Belarus

91. Nanostructurizatio of Intercalation Compounds with Accounting of Fluctuation

G.S. Bokun, R.N. Lasovsky, V.S. Vikhrenro
Belarusian State Technological University, Minsk, Belarus

92. Preparation and Characterization of Nanostructured ZnO Thin Films for Solar Cell Application

E. P. Zaretskaya *[1], V.A. Ivanov[1], V.B. Zalesski[2],
M. Stoica$_3$, M. Nicolescu$_3$, M. Gartner[3]
[1]State Scientific and Production Association "Scientific-Practical Materials Research Centre of the National Academy of Sciences of Belarus, Minsk, Belarus
[2]B.I. Stepanov Institute of Physics National Academy of Sciences of Belarus, Minsk, Belarus,
[3]Institute of Physical Chemistry, Romanian Academy, Bucharest, Romania.

93. Plasmachemical Synthesis of Antibacterial Nanocomposite Coatings

A.A. Rogachev[1,2], M.A. Yarmolenko[1], **A.V. Rahachou[2], D.V. Tapalski[3]**
[1]Francisk Scorina Gomel State University, Gomel, Belarus
[2]Belarusian State University of Transport, Gomel, Belarus
Gomel State Medical University, Gomel, Belarus

94. Finite-Difference Time-Domain Simulation of Light Propagation in 2D Periodic and Quasi-Periodic Photonic Structures

N. Dadashzadeh, O.G. Romanov
Belarusian State University, Department of Chemistry, Minsk, Belarus

95. Technology for Multichip Modules on Aluminum Substrates with Nanostructured Dielectric Layers

Sokol V.A. and Yakovtseva V.A.
Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus

96. Synthesis of Nanostructured High hard Wear-Resistant Ceramic Coating on the Details of Friction Pairs of Aluminum Alloys

P.A. Vityaz, A.I. Komarov, V.I. Komarova
Joint Institute of Mechanical Engineering of National Academy of Sciences of Belarus, Minsk, Belarus

97.Zagreb Coindices of Some Nano Structures

G. H. Fath-Tabar
Department of Mathematics, Faculty of Mathematical Sciences, University of Kashan, Kashan, I. R. Iran

98. Surface Plasmon Resonance Effect on the Magneto Optical Kerr Effect Enhancement in Cu/Co/Ag/SnO_2 Structure

M. Ghanaatshoar[1], M. Moradi[2], P. Tohidy[1]
[1] Laser and Plasma Research Institute, Shahid Beheshti University, G.C., Evin 1983963113, Tehran, Iran
[2] Institute of Nanoscience and Nanotechnology, University of Kashan, Kashan, Iran

99. Magneto-Thermo-Electro-Elastic Stress Analysis of Smart Nanocomposite Hollow Cylinder Subjected to Complex Loadings

A. Ghorbanpour Arani[1,2], M. Rahnama Mobarakeh[3], Sh. Shams[4], B. Vahdati[5],
[1] Department of Mechanical Engineering, Faculty of Engineering, University of Kashan, Kashan, I. R. Iran
[2]Institute of Nanoscience & Nanotechnology, University of Kashan, Kashan, I. R. Iran
[3] Department of mechanical Engineering, Faculty of Engineering, Majlesi Branch, Islamic Azad University, Majlesi, Isfahan, I.R. Iran
[4] Department of mechanical Engineering, Faculty of Engineering, Mobarakeh Branch, Islamic Azad University, Mobarakeh, Isfahan, I.R. Iran
[5] Department of mechanical Engineering, Faculty of Engineering, Takestan Branch, Islamic Azad University, Takestan, Ghazvin, I.R. Iran

100. Buckling of a Polymeric Cylindrical Shell Reinforced With CNTs Using Energy Method

A. Ghorbanpour Arani[1,2], Sh. Shams[3], H. Shayesteh Moghadam[3], M. Rahnama Mobarakeh[1], B. Vahdati[4]
[1] Department of Mechanical Engineering, Faculty of Engineering, University of Kashan, Kashan, I. R. Iran
[2]Institute of Nanoscience & Nanotechnology, University of Kashan, Kashan, I. R. Iran
[3] Department of mechanical Engineering, Faculty of Engineering, Mobarakeh Branch, Islamic Azad University, Mobarakeh, Isfahan, I.R. Iran
[4] Department of mechanical Engineering, Faculty of Engineering, Takestan Branch, Islamic Azad University, Takestan, Ghazvin, I.R. Iran

101. Application of Carbon Nanotubes Sensor for Voltammetric Determination of Sulfapyridine by Experimental Design

S.M. Ghoreishi, A. Khoobi
Department of Analytical Chemistry, Faculty of Chemistry, University of Kashan, Kashan, I.R. Iran

102. Synthesis and Characterization of IronChromite ($FeCr_2O_4$) Nanoparticles Prepared by Hydrothermal Method

H. Dehghani, S. Bakhshayesh
Department of Inorganic Chemistry, Faculty of Chemistry, University of Kashan, Kashan, Iran

103. Theoretical and Experimental Investigation on Faraday Rotation Measurement in Ferrofluid of Oil-based Cobalt- Ferrite Nanoparticles

S. Kiani[1], M. Moradi[1], S. Manouchehri[2]
[1] Department of Physics, Shahrekord University, 88186-34141, Shahrekord, Iran.
[2] Department of Physics, Malek-Ashtar University of Technology, 83145-34177, Shahinshahr-Esfahan, Iran.

104. The Effect of Current Annealing on the Giant Magneto-impedance Effect in Amorphous Alloy Ribbons

M. Moradi[1], M. Khezri[1], E. Roozmeh[2], M. Farmanesh[2], M. Faramarzi[2]
[1] Institute of Nanoscience and Nanotechnology, University of Kashan, Kashan, Iran
[2] Department of Physics, University of Kashan, Kashan, Iran

105. Experimental Investigation in Faraday Rotation Measurement on Thin Films of Co-Zn Ferrite Nanoparticles

S. Kiani[1], M. Moradi[1], S. Manouchehri[2]
[1] Department of Physics, Shahrekord University, 88186-34141, Shahrekord, Iran.
[2] Department of Physics, Malek-Ashtar University of Technology, 83145-34177, Shahinshahr-Esfahan, Iran.

106. Nanostructured Electrochemical Sensor for Determination of Norepinephrine, Acetaminophen and Folic acid

M. Mazloum-Ardakani, M.A. Sheikh-Mohseni, M. Abdollahi-Alibeik, A. Benvidi
Department of Chemistry, Faculty of Science, Yazd University, Yazd, I.R. Iran

107. Multiwalled Carbon Nanotube Paste Electrode in Simultaneous Determination of Two Antioxidants Using Chemometrics

S. Masoum*, M. Behpour, F. Azimi, M. Motaghedifard
Department of Analytical Chemistry, Faculty of Chemistry, University of Kashan, Kashan, I.R. Iran

108. Numerical Investigation of Nanoparticles Mean Diameter Effect on Mixed Convection of Nanofluid in a Cavity

A.A. Abbasian Arani[1], J. Amani[2]
[1,2]Mechanical Engineering Department, University of Kashan, Qhotb Ravandi Blv, Kashan, Iran

109. Study of Fractal Adsorption of Pb(II) and Cd(II) on Graphene Nano Sheets

H. Bashiri[1], A. Shajari, S. Tahmasebi
[1]Department of Physical Chemistry, Faculty of Chemistry, University of Kashan, Kashan, Iran

110. A Theoretical Kinetic Study of Graphene Synthesis by Kinetic Monte Carlo Simulation

Hadis Bashiri[1] , Mohsen Akhtarkavian
[1]Department of Physical Chemistry, Faculty of Chemistry, University of Kashan, Kashan, Iran

111. Minimizing the Lasing Threshold in High-Index-Contrast Waveguide

H.R. Zangeneh[1,] M. Asadniafard Jahromi[1]
[1] Department of photonics, University of Kashan

112. Synthesis andluminescence characteristics of PEG – 200 mediated $NaYF_4$: Er/Ybnanostructure

M. Zahedifar[1,2], S. M. Hussein Pour[2]
[1]Phycsics department, University of Kashan, Kashan, I.R.Iran
[2]Institute of Nanoscience and Nanotechnology, University of Kashan, Kashan,I.R.Iran

113. DFT Study of Cobalt Doped in Armchair (5, 0) SWCNT

M.Mohammadi[1],B.Khoshnevisan[1,2], M.Mohammadi[2]
[1]Department of Physics, University of Kashan, Kashan , Iran
[2] Institute of Nanoscience and Nanotechnology, University of Kashan, Kashan, Iran

114. A New Method in Preparation of Monodisperse Magnetite Nanoparticles from Ferrous Salts in Alkylamines Solution

S. A. Kahani, M. Shahrokh
Department of Inorganic Chemistry, Faculty of Chemistry, University of Kashan, Kashan, I. R. Iran

115. Direct Analysis of Dopamine in Human Serum After Dispersive Solid Phase Micro-Extraction With Nano-Structured Ni−Al LDH

H. Abdolmohammad-zadeh, G.H. Sadeghi, Z. Talleb
Department of Chemistry, Faculty of Sciences, Azarbaijan University of Tarbiat Moallem, 35 Km Tabriz-Marageh Road, Tabriz, Iran

116. Synthesis of Silica-Supported Preyssler Nanoparticles and their Applications for Azo Dyes Degradation

A. Ahmadpour[1], S. Jalali[1], F. F. Bamoharram[2], M. M. Heravi[3], B. Tanhaei[1], A. Ayati[1]
[1] Department of Chemical Engineering, Ferdowsi University of Mashhad, Mashhad, Iran
[2] Department of Chemistry, Mashhad Branch, Islamic Azad University, Mashhad, Iran
[3] Department of Chemistry, School of Sciences, Alzahra University, Tehran, Iran

117. Nano Titania-Supported Dawson Heteropolyacid as Green Solid Catalyst for Synthesis of Linear Alkylbenzene

N. Toutounchian[1], A. Ahmadpour[1], M. M. Heravi[2], F. F. Bamoharram[3]
[1] Department of Chemical Engineering, Ferdowsi University of Mashhad, Mashhad, Iran
[2] Department of Chemistry, School of Sciences, Alzahra University, Tehran, Iran
[3] Department of Chemistry, Mashhad branch, Islamic Azad University, Mashhad, Iran

118. InP-Based Photonic Crystal Electro-Optic Modulator

M. Nikoufard[1], S. Amadeh[2]
[1] Department of Electrical Engineering, Faculty of Engineering, University of Kashan, Kashan, Iran
[2] Department of Electrical Engineering, Faculty of Engineering, South Tehran Branch, Islamic Azad University, Tehran, Iran

119. Hydrothermal Synthesis of Nanorods and Nanosheets Antimony trioxide

H. Dehghani, F. Behnoudnia
Department of Inorganic Chemistry, Faculty of Chemistry, University of Kashan, Kashan, I. R. Iran

120. Nanostructure Formation of Aromatic Thiol for Corrosion Protection of Copper

M. Behpour, N. Mohammadi
Department of Analytical Chemistry, Faculty of Chemistry, University of Kashan, Kashan, I. R. Iran

121. Zagreb Coindices of Some Nano Structures

G. H. Fath-Tabar
Department of Mathematics, Faculty of Mathematical Sciences, University of Kashan, Kashan, I. R. Iran

122. Functionalization of Multiwalled Carbon Nanoubes through Electrophilic Addition Reactions

L. Moradi[*1], F. Rostami[1], M. Rezaei Bina[2]
[1] Department of Organic Chemistry, Faculty of Chemistry, University of Kashan, Kashan, I.R.Iran

[2] Faculty of Science, Payame Noor University of Tehran, I.R.Iran

123. Hydrothermal Synthesis and Characterization of Nanosized Cadmium sulfide

H. Dehghani, S. Bakhshayesh
Department of Inorganic Chemistry, Faculty of Chemistry, University of Kashan, Kashan, I. R. Iran

124. Synthesis and thermoluminescence characteristics of CaF_2:Dy,Tm nanoparticles

E. Sadeghi [1], M. Zahedifar[2]
[1] Department, University of Kashan, Kashan, Iran
[2] Institute of Nanoscience and Nanotechnology, University of Kashan, Kashan, Iran

125. New Simple Method for Oxidation of MultiWalled Carbon Nanotubes Through Radical Reactions

L. Moradi[*], F. Rostami
Department of Organic Chemistry, Faculty of Chemistry, University of Kashan, Kashan, I.R.Iran

126. Synthesis of Nanocrystalites $YBa_2Cu_30_{6+x}$ by Using Improved Mechanochemical Alloying and Study of Its Microstructures

M. Mohammadi[1], B. Khoshnevisan[1,2], M. Kargar[2]
[1] Faculty of Physics, University of Kashan, Kashan, Iran
[2] Institute of Nanoscience and Nanotechnology, University of Kashan, Kashan, Iran

127. Surface Stress Effects on the Bending Wave Propagation of Nanobeams Resting on a Pasternak Foundation

A. Ghorbanpour Arani[1], R. Kolahchi[1], H. Rahimi pour[2], M. Ghaytani[2], H. Vossough[1]
[1]Iran Institute of Mechanical Engineering, University of Kashan, Kashan, Iran.
[2] Institute of Mechanical Engineering, Islamic Azad University, Khomeini Shahr Branch, Iran.

128. Effect of CNTs as Reinforcer on Thermo Nonlinear Vibration of Embedded Pipes Conveying Oil Via DQM

M. Ghaytani[1], H. Rahimi pour[2], R. Kolahchi[3]
[1]National Iranian Oil Refining & Distribution Company, Iran
[2] Institute of Mechanical Engineering, Islamic Azad University, Khomeini Shahr Branch, Iran.
[3] Institute of Mechanical Engineering, University of Kashan, Kashan, Iran.

129. Effect of Elastic Foundation on Nonlocal Vibration of CNTs With Attached Buckyballs at Tip

A. Ghorbanpour Arani[1], H. Rahimi pour[2], M. Ghaytani[2], R. Kolahchi[1], H. Vossough[1]
[1]Iran Institute of Mechanical Engineering, University of Kashan, Kashan, Iran.
[2] Institute of Mechanical Engineering, Islamic Azad University, Khomeini Shahr Branch, Iran.

130. Nonlocal Terahertz Wave Characteristics of Embedded Single-Walled Boron Nitride Nanotubes

A. Ghorbanpour Arani[1], R. Kolahchi[1], M. Ghaytani[2], H. Rahimi pour[2], H. Vossough[1]
[1]Iran Institute of Mechanical Engineering, University of Kashan, Kashan, Iran.
[2] Institute of Mechanical Engineering, Islamic Azad University, Khomeini Shahr Branch, Iran.

131. Fabrication of Nanostructured Al/Cu_p Composite by Accumulative Roll Bonding Process

M. Alizadeh[1], M. Talebian[2]

[1] Department of Metals, International Centre for Science, High Technology & Environmental Sciences, Kerman, Iran
[2] Department of Materials science and Engineering, Kerman Graduate University of Technology, Kerman, Iran

132. Synthesize Behaviour of Nanostructured Al/Al_2O_3 Composite Powders Fabricated by Mechanical Alloying Process

M. Alizadeh[1], M. Mirzaei-Aliabadi[1]
[1] Department of Metals, International Centre for Science, High Technology & Environmental Sciences, Kerman, Iran

133. Monte carlo Investigation of Breast cancer protein(BRCA)with nano theoretical studies

M. Besharati[1], R.Rasoolzadeh*[2]
[1]Science and Research Branch, Islamic Azad University, Tehran, Iran
[2]Science and Research Branch, Islamic Azad University, Tehran, Iran

134. Nano Theoretical Investigation of Semi-empirical and Molecular mechanics Methods of Alzheimer's disease amyloid beta-peptide

F. Mahdizade[1], R.Rasoolzadeh*[2], H.Seyedhosseini Ghaheh [3]
[1] Science and Research Branch, Islamic Azad University, Tehran, Iran
[2] Science and Research Branch, Islamic Azad University, Tehran, Iran
[3] Young Researchers Club, Science and Research Branch , Islamic Azad University, Tehran, Iran

135. Computational Study on the Sodium and Potassium Channels and Transport properties of Ions in Membrane

N.Ezzati, R.Rasoolzadeh, M.Mousavi
Science and Research Branch, Islamic Azad University, Tehran, Iran

136. Nano-structural studies of human leukemia inhibitory factor (LIF)

P.Vaseqi Maqvan[1], R.Rasoolzadeh*[2]
[1] Science and Research Branch, Islamic Azad University, Tehran, Iran
[2] Science and Research Branch, Islamic Azad University, Tehran, Iran

137. Role of Polymeric Surfactants on the Growth of Manganese Ferrite Nanoparticles

Tahereh Rohani Bastami[1,2], Mohammad H. Entezari[2], Qiu Hong Hu[1], Sandy Budi Hartono[1], Shi Zhang Qiao[1]
[1]ARC Centre of Excellence for Functional Nanomaterials, Australian Institute for Bioengineering and Nanotechnology, The University of Queensland, QLD 4072, Australia
[2]Department of Chemistry, Ferdowsi University of Mashhad, 91775, Mashhad, Iran

138. Improving UV Stabilization of Polyamide Nylon 6 Fabrics Using Nano ZnO

R. Khajavi[1], M. Saeidi[2], M. E. Yazdanshenas[3]
[1,2] Department of textile, Islamic Azad University, South-Tehran branch, Tehran, Iran.
[3] College of textiles, Islamic Azad University, Yazd branch, Yazd, Iran.

139. Super Hydrophobic Property of the Nylon Fabric Using Silica Nanoparticles

M. Saeidi[1], R. Khajavi[2], M. E. Yazdanshenas[3]
[1,2] Department of textile, Islamic Azad University, South-Tehran branch, Tehran, Iran.
[3] College of textiles, Islamic Azad University, Yazd branch, Yazd, Iran.

140. Super Hydrophobic Property of the Polyester Fabric Using Silica

Nanoparticles

M. Saeidi[1], R. Khajavi[2], M. E. Yazdanshenas[3]
[1,2] Department of textile, Islamic Azad University, South-Tehran branch, Tehran, Iran.
[3] College of textiles, Islamic Azad University, Yazd branch, Yazd, Iran

141. Oxidation Bleaching of Antimicrobial Functionalized Non-Woven Polypropylene Fabrics Containing silver Nanoparticles

R. Khajavi[1], M. Saeidi[2], M. E. Yazdanshenas[3]
[1,2] Department of textile, Islamic Azad University, South-Tehran branch, Tehran, Iran.
[3] College of textiles, Islamic Azad University, Yazd branch, Yazd, Iran

142. Synthesis of ZnO Nanostructure by Mechanical Milling Process Using Starch as a Template

A. Tadjarodi, M. Izadi, M. Imani
Department of Chemistry, Iran University of Science and Technology, Narmak, Tehran, Iran

143. Synthesis and Characterization of $AgInS_2$ Nanoparticles by Microwave assisted Chemical Precipitation

A.Tadjarodi, A. Cheshme khavar
Department of Chemistry, Iran University of Science and Technology, Narmak, Tehran, Iran

144. Synthesis and Characterization of MgO Nanoparticles Using PEG as a Surface Active Agent

A. Tadjarodi, M. Sedghi, K. Bijanzad
Department of Chemistry, Iran University of Science and Technology

145. Synthesis and Characterization of the CdO Necklace-like Nanostrands by Using Succinic acid

A.Tadjarodi, M. Imani
Department of Chemistry, Iran University of Science and Technology, Narmak, Tehran, Iran

146. Monte Carlo Simulations and Experimental Results of Landmine Detection using the Thermal Neutron Analysis

Abbas Ahmadi [1] and Shokoufeh Khaleghi [2]
[1] Department of Physics, Malayer Branch, Islamic Azad University, Malayer, Iran
[2] Department of Micro and Nanoelectronics, Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus