

Table of Contents

2013, Vol. 2, No3

Track: Plasma and Ions for Surface Engineering. Radiations Effects

The Software System for Statistical Modeling of the Porous Structure of Plasma Sprayed Biocompatible Coatings

Markelova O.A., Lyasnikova A.V., Taran V.M., Dudareva O.A., Grishina I.P. 03PISERE01

Influence of Nano-defects on Current-voltage Characteristics of HTc Superconductors

Sosnowski J. 03PISERE02

Computer Simulation of Temperature Profiles for DC Pulse Plasma Jet Modification of Co-based Plasma Detonation Coatings

Alontseva D.L., Krasavin A.L., Russakova A.V., Sadvakasova N. 03PISERE03

Effects of Cold Deformation and Electron Irradiations on Deuterium Desorption Temperature Range from Zr-1%Nb Alloy

Mats V.O., Morozov O.M., Kulish V.G., Zhurba V.I., Mats O.V., Ivanova S.V. 03PISERE04

Laser Synthesis of Ag Island-Shaped Nanostructures at Air

Kozadaev K.V. 03PISERE05

Optimization of Technology for Production of Bimetallic Compounds by High-current Relativistic Electron Beam Hardfacing of Nanostructured Coatings

Donets S.E., Lytvynenko V.V., Klepikov V.F., Bazaleev M.I., Lonin Yu.F., Ponomarev A.G., Uvarov V.T., Uvarov V.V. 03PISERE06

Ion Guiding in Alumina Nanocapillaries

Hryshyn P.A., Komarov F.F., Kamyshan A.S. 03PISERE07

Effect of Ion Irradiation on the Structural State of the Vacuum-arc Nitride Coatings

Sobol' O.V., Andreev A.A., Voevodin V.N., Gorban V.F., Filchikov V.E., Stolbovoy V.A., Levenets V.V., Lysan D.V. 03PISERE08

Track: Nanopolymers and Nanocomposites, Carbon Nanomaterials

Temperature Dependence of Resistivity and Current-voltage Characteristics of the Films of Composites Based on Modified Carbon Multiwalled Nanotubes and Graphite

Babaev A.A., Khokhlachev P.P., Nikolaev Yu.A., Terukov E.I., Freidin A.B., Filippov R.A., Filippov A.K., Manabaev N.K. 03NCNN01

Relationship between Single Walled Carbon Nanotubes Individual Dispersion Behavior and Properties of Electrospun Nanofibers

Haji A., Nasouri K., Mousavi Shoushtari A., Kafrou A. 03NCNN02

Electronic Structure Peculiarities of Graphite Nanosheets

Ikkiv B.I., Foya O.O., Petrovska S.S., Sergienko R.A., Zaulychnyy Ya.V. 03NCNN03

A Novel Study of Electrospun Nanofibers Morphology as a Function of Polymer Solution Properties

Haji A., Nasouri K., Mousavi Shoushtari A., Kafrou A. 03NCNN04

Reversible Hydrogen Storage in Electrospun Composite Nanofibers

Haji A., Nasouri K., Mousavi Shoushtari A., Kafrou A. 03NCNN05

4He Sorption in Graphene Oxide at Low Temperatures <i>Vinnikov N.A., Dolbin A.V., Esel'son V.B., Gavrilko V.G., Manzhelii V.G., Basnukaeva R.M., Benito A.</i>	03NCNN06
The Role of Pore Structure of SMFs-based Pd Nanocatalysts in Deactivation Behavioral Pattern upon Acetylene Hydrogenation Reaction <i>Esmaeili E., Rashidi A.M., Mortazavi Ya., Khodadadi A.A., Rashidzadeh M.</i>	03NCNN07
Carbon Nanotubes-Chitosan-Molecularly imprinted polymer Nano-carriers Synthesis for Nanomedicine Application <i>Abdouss M., Afshari R., Mazinani S., Asadi E., Haji A.</i>	03NCNN08
The Formation of the Intermetallic-Containing Pd ₂ Sn Alloy: the Creation of the Isolated Adsorption Sites <i>Esmaeili E., Rashidi A., Khodadadi A.A., Mortazavi Ya., Rashidzadeh M.</i>	03NCNN09
Sol-gel Synthesis of β-Cyclodextrin-containing Silicas with 3-(chloropropyl)triethoxysilane as Precursor <i>Belyakova L.A., Trofymchuk I.M.</i>	03NCNN10
Investigation of Nanocomposite Based on Cationic Starch and Na-montmorillonite as adsorbent for Dye Removal <i>Kochkina N.E., Skobeleva O.A., Padokhin V.A.</i>	03NCNN11
Car-Parrinello Molecular Dynamics of Nanosized Graphene Sheets <i>Wang S.</i>	03NCNN12
Nano-reinforced Quartz Composites <i>Shamshurov A.V., Beresnev V.M., Volovicheva N.A.</i>	03NCNN13
Nanotubular Crystals of Co-chrysotile (Co-hydro Silicate) <i>Smolikov A.A., Vezentsev A.I., Beresnev V.M., Pavlenko V.I., Solokha A.S., Sokolenco I.V.</i>	03NCNN14
The Photophysical Properties Investigation of Hybrid Associates of Methylene Blue Molecules With Colloidal CdS Quantum Dots and CdS/Cd(OH) ₂ "Core-shell" Systems <i>Shatskikh T.S., Ovchinnikov O.V., Smirnov M.S., Shapiro B.I., Latyshev A.N., Khoklov V.Yu.</i>	03NCNN15
The Picosecond Kinetic of Luminescence in Hydrophilic Colloidal CdS Quantum Dots <i>Smirnov M.S., Ovchinnikov O.V., Vitukhnovsky A.G., Ambrozhevitch S.A., Katsaba A.V., Shatskikh T.S.</i>	03NCNN16
Electromagnetic Radiation Influence on the Transversal Conductivity of the Graphene Superlattice <i>Kryuchkov S.V., Kukhar E.I., Nikitina O.S.</i>	03NCNN17
Nanocomposites Based on Chitozan and Carbon Tanotubers With Iron Oxides Formed by in Situ Precipitation <i>Bolbukh I.M., Gunko G.S., Yurkov G.Yu., Prikhodko G.P., Tertykh V.A.</i>	03NCNN18
Magnetoresistivity Dynamics in Microfine Graphite under Pressure <i>Slyusarev V.V., Polyakov P.I.</i>	03NCNN19
Nanostructured Organic-Inorganic Composite for Application in Fuel Cells and Solar Collectors <i>Musiy R.Y., Yevchuk I.Yu., Demchyna O.I.</i>	03NCNN20
Blends of Polyethylene Terephthalate (PET) and Nanostructured Hyperbranched Polyester-amide for Improvement the Dyeability of PET: Thermodynamics <i>Khatibzadeh M., Ahani M., Mohseni M., Vajar M., Kordbacheh S.</i>	03NCNN21

Laser-induced Bleaching of Carbon Nanomaterials Suspensions <i>Bulatov D.L., Mikheev K.G., Shuvaeva M.A.</i>	03NCNN22
Dielectric Parameters of Polystyrene/Fullerene Composite Films <i>Noskov A.V., Alekseeva O.V., Kraev A.S., Agafonov A.V.</i>	03NCNN23
Polystyrene Film Composites Filled with Fullerenes <i>Alekseeva O.V., Bagrovskaya N.A., Noskov A.V.</i>	03NCNN24
Polymer-polymer Microfibrillar Composites: Effect of Nanofillers on Structure and Properties <i>Kelnar I.</i>	03NCNN25
Effect of Silica Nanoparticles on the Curing Kinetics of Epoxy Vinyl Ester Resin <i>Aghili A., Arabli V.</i>	03NCNN26
Preparation of PMMA/CNT Microcellular Foam Using Supercritical CO ₂ <i>Aghili A., Ahmadi M., Pourdalir H.</i>	03NCNN27
Structure Transformation in Fullerenes C ₆₀ at High Temperature Treatment <i>Rud A.D., Kiryan I.M., Nikonova R.M., Lad'yanov V.I., Bilyi N.M., Merzlyakova M.A.</i>	03NCNN28
The Synthesis and Characterization of Polyaniline Nanorod: by the Method of Ethanol Solution Polymerization <i>Wang J., Zhang S.Ch.</i>	03NCNN29
Hybrid Hydrogel Materials with Incorporated Nanoparticles <i>Samchenko Yu.M., Kryklia S.O., Poltoratska T.P., Isheikina Yu.O., Makarenko V.I., Sukhodub L.F., Konovalova V.V.</i>	03NCNN30
Thermosensitive Hydrogels and Microgels Based on N-isopropylacrylamide and Acrylamide with Incorporated Magnetite <i>Korotych O.I., Samchenko Yu.M., Sukhodub L.F., Ulberg Z.R.</i>	03NCNN31
Nanotube Connections in Bilayer Graphene with Elongated Holes <i>Chernozatonskii L.A., Demin V.A.</i>	03NCNN32
Telomeres of Tetrafluoroethylene - Advanced Materials to Create Superhydrophobic Coatings and Optical Fiber with Low Attenuation Coefficient <i>Shestakov A.F.</i>	03NCNN33
Structural Model of Nanocomposite with Anisotropic Matrix <i>Burnatnaya G.F., Fil'shtinskii L.A., Shramko Yu.V., Vorona Yu.V.</i>	03NCNN34
Length Dependence of Band Structure in Carbon Nanotubes of Ultra Small Diameter <i>Ganin A.A.</i>	03NCNN35
Pt Supported on Reduced Graphite Oxide Catalysts for H ₂ Activation <i>Dremova N.N., Kushch S.D., Kuyunko N.S., Arbuzov A.A., Muradyan V.E.</i>	03NCNN36
Core-shell Structured Composite Silica Micro- and Nanoparticles with Ability Release a Defined Quantity „on Demand“ <i>Kovacik P., Stepanek F., Soltyš M.</i>	03NCNN37
Thermo- and pH-sensitive Hydrogels with Incorporated Multi-Walled Carbon Nanotubes <i>Korotych O.I., Goncharuk A.I., Sliusar Yu.M., Samchenko Yu.M., Starchenko V.Yu.</i>	03NCNN38
Preparation of Amino-Functionalized Graphene Sheets and Their Conductive Properties <i>Arbuzov A.A., Muradyan V.E., Tarasov B.P., Sokolov E.A.</i>	03NCNN39

Strong Vibration-Electron Interactions and Vibration Band Enhancement in Vibrational Spectra of C60 Nanofilms and Singlewalled Carbon Nanotubes <i>Naumenko A., Kornienko N.E.</i>	03NCNN40
Synthesis and Properties of Ag/CuO/SiO ₂ Nanocomposites <i>Izaak T.I., Martynova D.O., Maas V.V., Slavinskaya E.M., Boronin A.I., Chen Y.W.</i>	03NCNN41
Fabrication of Homogeneous Multi-walled Carbon Nanotube/ Poly (vinyl alcohol) Composite Nanofibers for Microwave Absorption Application <i>Shoushtari A.M., Salimbeygi G., Nasouri K., Haji A.</i>	03NCNN42
Synthesis of Polypropylene Fiber/Hydrated Iron Oxide Nanocomposite Adsorbent <i>Bondar I.V., Kuzenko S.V., Han D.H., Cho H.K.</i>	03NCNN43
Abrasion Resistance of Ag/SiO ₂ /PA6 Nanocomposite Fabrics <i>Dastjerdi R., Fasahat F., Mojtabaei M.R.M.</i>	03NCNN44
Thermophysiological Comfort by PA6/TiO ₂ Nanocomposite Yarns <i>Dastjerdi R., Fasahat F., Mojtabaei M.R.M.</i>	03NCNN45
Chemical Vapor Deposition of Graphene on Copper <i>Kostogrud I.A., Smovzh D.V.</i>	03NCNN46
Composite Materials on the Base of Nanoporous SiO ₂ Matrices with Polymethine Dyes Molecules <i>Bezkrovnyaya O.N., Pritula I.M., Plaksyi A.G., Slominsky Y.L., Lopin A.V., Kachkovskiy A.D.</i>	03NCNN47
Electret Properties of Polyethylene Composite Films with Talc <i>Temnov D.E., Fomicheva E.E.</i>	03NCNN48
Synthesis and Characterization of Polyethylene Vinyl Acetate / ZnSe Nanocomposite <i>Joseph G.P., Mathen J.J., Edakkara A.J., Sebastian J., Madhavan J.</i>	03NCNN49
Electrical Behaviour of Polyethylene Vinyl Acetate / ZnO Nanocomposite <i>Joseph G.P., Edakkara A.J., Mathen J.J., Sebastian J., Ramalingam G.</i>	03NCNN50
Synthesis of Nano-Structured Polyaniline by Direct Emulsion Polymerization <i>Pourmahdian S., Haghifar M.H., Pakdel A.S., Pishvaei M.</i>	03NCNN51
Low Temperature Post Radiation Polymerization of Tetrafluoroethylene in the Presence of the Graphene 3D Material <i>Kiryukhin D.P., Shulga Yu.M., Baskakov S.A., Kichigina G.A., Kushch P.P., Michtchenko A.</i>	03NCNN52
Characterization of Elastomer Nanocomposite Blends Based on NR/EPDM/Organoclay <i>Alipour A.</i>	03NCNN53
Template Synthesis and Micellization of Block Copolymers with Interacting Blocks <i>Permyakova N.M., Zheltonozhskaya T.B., Klymchuk D.O., Polyan M.Ya.</i>	03NCNN54
Laser Stimulation the Electroconductivity of Composite Layers with Multiwalled Carbon Nanotubes <i>Galperin V.A., Blagov E.V., Selishchev S.V., Podgaetsky V.M., Ichkitidze L.P., Shaman Yu.P.</i>	03NCNN55
Track: Advances in Equipment and Technologies	
Survey of Recycled Nano Magnetic Particle in Benzene Removal from Aqueous Solution <i>Amin M.M., Bina B., Samani Majd A.M., Pourzamani H.</i>	03AET01

Managing the Composition of the Plasma Flow of the Technological Plasma Sources by Changing the Temperature of the Cathode Working Surface

Tatarkina I., Sysoev Yu.03AET02

Immersion Lithography with Using of Photostimulated Etching of Germanium Chalcogenide Films

Dan'ko V.A., Indutnyi I.Z., Myn'ko V.I., Shepeliavyi P.E., Lykanyuk M.V., Litvin O.S.03AET03

Ion Probe with Primary Ion Beam Prism Mass Separator

Kuzema P., Kuzema O.03AET04

Developing New Solid-state Hydrogen Storage and Purification Reactors

Blinov D.V., Borzenko V.I., Dunikov D.O., Malysheenko S.P.03AET05

Properties of Zirconia Nanoceramics under High-energy Electrons Irradiation

Dikiy N.P., Aizatsky N.I., Dovbnya A.N., Fedorets I.D., Kushnir V.A., Lyashko Yu.V., Medvedev D.V., Mytrochenko V.V., Onishchenko I.N., Perezhogin S.A., Danilenko I.A., Konstantinova T.E.03AET06

Set-up for Nanosized Powder Synthesis and Set-up for Deposition of Composite and Multilayer Films

Churilov G., Kolonenko A., Dydnik A., Leonova T., Osipova I., Vnukova N., Glushenko G.03AET07

Comparison of Grain Refinement in Selected Materials Subjected to Hydrostatic Extrusion

Mizera J., Maj P., Adamczyk-Cieslak B.03AET08

Synthesis of Boron Carbide from Boric Acid and Carbon-Containing Precursors

Genusova T.N., Zakharova K., Mednikova A., Rumyantsev V.03AET09

Nanochemical Processes In Solid-Phase Reduction Of Ferrioxide-Silicate Materials

Oleinik V.A., Panko A.V., Kovzun I.G., Ilyashov M.O., Protsenko I.T.03AET10

In Situ Spectral Magnetoellipsometry for Structural, Magnetic and Optical Properties of MeSi
(Me=Mn,Fe) Nanolayers

Zabluda V.N., Kosyrev N.N., Varnakov S.N., Ovchinnikov S.G., Tarasov I.A., Lyashenko S.A., Shevtsov D.V., Maksimova O.A., Yakovlev I.A., Shvets V.A., Rykhllitsky S.V.03AET11