

Articles, published in the journal "NANOINDUSTRY" in 2021

COMPETENT OPINION

V.Ya. Shur

Half a century in science. From a ferroelectric laboratory to centers for shared use and fundamental biotechnology and bioengineering № 1, c. 8

D.Barbier, J.Cordeiro

Microstructure of 3D-objects. Microlight3D technologies for the creation of micro and nanoworlds objects № 1, c. 16

I.V.Yaminskiy

Year of science and technology № 1, c. 24

G.E.Krichevsky

NBICS technologies – concept of reformation or foundation of the future technological breakthrough? ... № 2, c. 88

A.Gambetti

Colibri, tucano and heron. What instrumentation of Gambetti Kenologia enters the Russian market? № 2, c. 94

A.A.Fotiadi

Low noise laser sources: from microwave photonics to plasmonics and biotechnologies № 3-4, c. 168

René Chalmakoff

Turnkey cleanroom complexes and engineering infrastructure. Professional experience of the company DEAXO in Russia № 5, c. 248; 254

A.A.Kovalev

Our vector of development is releasing of demanded and competitive products № 7-8, c. 400

CONTROL AND MEASUREMENTS

E.A.Klimov, M.Yu.Murashkin

Strength estimation of a prospective two-component conductor made of nanostructural aluminum alloys by the finite element method № 2, c. 150

EQUIPMENT FOR NANOINDUSTRY

I.V.Yaminskiy, A.I.Akhmetova

FemtoScan Online software in virus research № 1, c. 62

S.Y.Udovichenko, A.D.Pisarev, A.N.Busygin, A.N.Bobylev

Biomorphous neuroprocessor – prototype of a new generation computer being a carrier of artificial intelligence. Part 2 № 1, c. 68

I.V.Yaminskiy

Look into the nanoworld: in contact № 2, c. 136

A.G.Kolesnikov, N.V.Gorbunov, Yu.A.Kryukov

Prediction of target erosion of planar MSS № 2, c. 142

B.G.Turukhano, N.Turukhano, Yu.M.Lavrov, S.N.Khanov,

V.V.Dobyryn, O.G.Ermolenko, L.A.Konstantinov, E.F.Vilkov,

I.V.Ladatko

Portable nano-holographic planimeter № 3-4, c. 212

I.V.Yaminskiy, A.I.Akhmetova

Electromechanical cantilever sensors for detection of biological objects № 3-4, c. 224

B.G.Turukhano, N.Turukhano, I.A.Turukhano

Pigh-resolution digital holographic microscope for transparent objects № 3-4, c. 232

D.P.Melnik, A.K.Rybakov, A.V.Gospodinov

Qualification and certification of clean steam production and distribution systems № 5, c. 284

I.V.Yaminskiy, A.I.Akhmetova, S.A.Senotrusova, Z.Wang,

Yu.Bing, B.S.Luk'yanchuk, E.V.Barmina, A.V.Simakin,

G.A.Shafeev

New solution for bionanoscopes based on the optical microlens technology № 5, c. 292

A.Yu.Nikiforov, M.S.Gorbunov, A.A.Smolin, D.V.Boychenko,

G.G.Davydov

Evolution of radiation effects in sub-microelectronic devices and test facilities № 5, c. 298

B.G.Turukhano, N.Turukhano, I.A.Turukhano

Recording holographic diffraction grids using a pulse laser № 5, c. 312

I.V.Yaminskiy, O.V.Sinitsyna, A.I.Akhmetova, S.A.Senotrusova,

A.A.Piryazev, E.P.Kozhina, S.A.Bedin

Use of microlenses to improve the optical microscopy resolution and enhance Raman scattering № 6, c. 382

A.B.Fadeev, A.K.Rybakov, M.K.Vetryanschikov, A.V.Gospodinov

Nuances and peculiarities of DOP-testing and differential pressure measurement № 7-8, c. 406

A.S.Silaev, V.V.Polevikov, D.P.Shomahmadov, S.A.Stepanov,

V.S.Marinenko, S.V.Soroka, E.O.Litvinenko, A.S.Yurov,

D.N.Kalbazov, S.A.Nikiforova, E.N.Andrienko, A.R.Gulyaeva,

Y.A.Mescheryakov

Design of a high-voltage three-channel voltage regulator for automotive applications № 7-8, c. 412

I.V.Yaminskiy, A.I.Akhmetova, S.A.Senotrusova

Super-resolution microscopy in biomedicine and biology № 7-8, c. 424



NANOMATERIALS

D.K.Magomedova, A.A.Churakova

Distribution of stresses in fine- and coarse-grained cylindrical aluminum alloy 6101 samples subjected to static tension № 1, c. 30

B.O.Bolshakov, R.F.Galiakbarov, A.M.Smyslov

Mechanism of formation of nanodispersed boron nitride layers in PCh13M2-BN powder compacts № 1, c. 36

V.I.Lysenko

Ceramics created by the SPS-method from copper-oxide nanopowder № 2, c. 132

M.Nasraoui

Chromium galvanic plating modified by a combination of multilayer carbon nanotubes and nanodiamonds № 3-4, c. 206

A.O.Ismagilov, N.V.Andreeva, O.V.Andreeva

Nanoporous silicate matrices: optical homogeneity problems № 6, c. 364

E.M.Glebova, V.I.Molomin

Production of anisotropic magnetic powders of the neodymium - iron - boron system with high magnetic properties at an enlarged pilot plant № 6, c. 374

A.A.Churakova

Influence of structural state of TiNi alloy on corrosion resistance in activating electrolytes № 7-8, c. 460

NANOTECHNOLOGIES

V.N.Zelenkov, V.V.Latushkin, V.V.Potapov, V.V.Karpachov, V.M.Kosolapov, V.T.Sinegovskaya, M.I.Ivanova, A.A.Lapin, P.A.Vernik

Peculiarities of the concentration effect of hydrothermal nanosilica in the pre-sowing treatment of plant seeds upon indicators of biomass and sprouts height in the dark growth mode.. № 1, c. 44

I.V.Yaminskiy, A.I.Akhmetova

Atomic force microscopy: study of viruses № 2, c. 102

A.S.Useinov, K.S.Kravchuk, Ye.V.Gladkih, S.V.Prokudin

Measurement of mechanical properties using instrumental indentation method in a large temperature range № 2, c. 108

O.A.Farus

Antireflective coatings based on polymer films with silver nanoparticles for solar cells № 2, c. 120

M.A.Sidorov

Protein nanogenerators of the living cell electricity as the prototype of the nature-like "green" nanoelectric energetics № 3-4, c. 174

I.V.Yaminskiy, A.I.Akhmetova, S.A.Senotrusova

Optical microscopy with the use of microlenses № 3-4, c. 184

O.P.Posnansky

Application of super-resolution method in diffusion MRI № 3-4, c. 188

M.A.Gadzhiev, K.S.Kravchuk, E.V.Gladkikh, G.Kh.Sultanova, A.A.Rusakov, A.S.Useinov, S.V.Apresyan

Comparative study of volumetric and surface mechanical properties of the materials for dental constructions obtained using additive technologies № 3-4, c. 196

S.V.Apresyan, M.A.Gadzhiev, K.S.Kravchuk, E.V.Gladkikh, G.Kh.Sultanova, A.A.Rusakov, A.S.Useinov

Analysis of the mechanical properties of the materials for dental structures after artificial ageing ... № 5, c. 260

B.A.Loginov

The world's first scanning probe microscope as a satellite a new stage of the scientific satellite laboratories № 5, c. 270

O.V.Sinitsyna, M.M.Vorob'ev, I.V.Yaminskiy

Automated search for nanoparticles in the probe microscope images using a neural network № 5, c. 276

O.P.Posnansky

Shell-based analysis of magnetic resonance diffusion tensor imaging. Part I № 6, c. 328

I.V.Yaminskiy, A.I.Akhmetova, S.A.Senotrusova

New look on the optical microscopy of bacteria through microlens № 6, c. 336

A.Bykova, I.Rod, K.Bitarov, A.Kazachkov, Y.Minayeva, K.Raketov, V.Trushin, A.Frolova, D.Podgornyy, D.Shamiryan

Method for removal of silicon surface microdefects by laser ablation № 6, c. 342

V.E.Polkovnikov, A.V.Strogonov, T.G.Menshikova, A.A.Karionova

Synthesis of Zn_2SNO_4 films deposited using spray pyrolysis technology and their application in NO_2 gas sensors for a bronchial asthma diagnostic device № 6, c. 350

I.V.Yaminskiy, A.I.Akhmetova

3D-Image construction, processing and analysis in biomedical scanning probe microscopy № 7-8, c. 430

O.P. Posnansky

Diffusion properties of human brain cortex in-vivo (Part 2) № 7-8, c. 434

E.I.Malevannaya, K.M.Moiseev, I.A.Rodionov

Electromagnetic shielding of superconducting quantum circuits № 7-8, c. 446