

Articles, published in the journal "Nanoindustry" in 2022

COMPETENT OPINION

M.G.Biryukov

60 Years at the frontend of the development of
STE for Russian Microelectronics № 5, c. 248

CONFERENCES, SEMINARS, EXHIBITIONS

I.V.Yaminskiy, A.I.Akhmetova

3D Design centre: involvement young people
in active creativity № 6, c. 392

CONTROL AND MEASUREMENTS

**A.O.Roenko (Dudnik), G.A.Armeev, E.S.Trofimchuk,
I.V.Yaminskiy**

Portable cell for qualitative assessment of vapor
permeability of film materials № 5, c. 308

EQUIPMENT FOR NANOINDUSTRY

I.V.Yaminskiy, A.I.Akhmetova

Scanning probe microscopy of bacteria: genotype
and phenotype № 1, c. 38

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

Measurement of displacement using a
movable holographic diffraction grating in an
interference field № 1, c. 46

A.A.Isaev, A.A.Raykov, A.V.Burmistov, S.I.Salikeev

Conductivity of the roots type double rotor
vacuum pump channels in the molecular gas
flow mode № 1, c. 58

**B.G.Turukhano, N.Turukhano, V.V.Korotaev, A.S.Vasiliev,
S.N.Khanov, O.G.Ermolenko, D.L.Konstantinov**

Analysis of the angular errors components when
processing data by the reading head № 1, c. 66

O.V.Sinitsyna, I.V.Yaminskiy

The power of a scanning force microscope № 2, c. 140

D.S.Shakhov, V.P.Mikhailov, A.M.Bazinenkov, M.E.Zhukov

Vacuum two-axis movement mechanism with
electrorheological speed control № 2, c. 144

B.G.Turukhano, N.Turukhano, S.N.Khanov, O.G.Ermolenko

Holographic nanolength meter with slide bearing ... № 2, c. 150

A.Yu.Kochetkov, E.Yu.Kotlyarov, A.F.Shabarchin, E.V.Shemetova

Concept development: design and experimental
analysis of the heat exchanger / heat meter

operating characteristics for performing
thermal vacuum tests at low temperature useful
workload for spacecrafts № 3-4, c. 204

V.T.Ryabov, N.A.Djuzhev

Study of a thermal MEMS sensor
for gas mass flow rate № 3-4, c. 216

Yu.V.Panfilov, L.L.Kolesnik

Micro-Contamination of nanostructures
at manufacturing in vacuum № 3-4, c. 224

V.P.Mikhailov, A.A.Kopylov

Research of the platform for active vibration
isolation of the nanotechnological equipment № 3-4, c. 232

A.I.Belikov, L.L.Kolesnik, O.E.Alikhanov, V.E.Brazhnikov

Development of a vacuum tribometric stand
for high-temperature testing and research
of solid-lubricating MoS₂ coatings № 5, c. 300

**V.S.Shcherbakova, A.P.Rotar', A.M.Bazinenkov, D.A.Ivanova,
V.P.Mikhailov**

Research of the actuators characteristics based
on dielectric elastomers № 6, c. 328

Ye.V.Leontiev, A.S.Korotkov, Yu.A.Matveev

Class G power amplifier
for infocommunication systems № 6, c. 368

**I.P.Li, V.I.Kapustin, A.V.Shumanov, D.V.Bychkov,
N.E.Ledentsova, A.A.Polunina, Yu.V.Polyakov**

Influence of vacuum state on the field
emission properties of cathode heating unit
of magnetrons with instant readiness № 6, c. 376

A.A.Kozlov, C.G.Davydov, A.N.Dolgov, R.Kh.Yakubov

Erosive effect of a pulsed vacuum ARC on the
working surfaces of a small-sized spark gap № 6, c. 384

I.P.Li, V.I.Kapustin, N.E.Ledentsova, A.V.Shumanov

Design features of three-module cathode heating
units in the instantaneously ready magnetrons .. № 7-8, c. 434

V.I.Kapustin, I.P.Li, A.V.Shumanov

Electronic structure of the scandate
cathode variants № 7-8, c. 442

**B.G.Turukhano, I.A.Turukhano, Yu.M.Lavrov,
O.G.Ermolenko, S.N.Khanov**

Nanolength holographic encoder № 7-8, c. 450

N.I. Skripkin, A.V. Shmelev, A.I. Pronikov, I.M. Ivanov

Complexed UHF-module with synchronized
M-type generators № 7-8, c. 458

**V.N.Reshetov, I.V.Krasnogorov, V.V.Solovyov,
E.V.Gladkikh, A.S.Useinov**

Equipment for instrumented nanoindentation -
principles of operation and design features № 7-8, c. 466

NANOMATERIALS

V.I.Lysenko

Ceramics prepared from molybdenum oxide powder: properties and production by SPS Method..... № 1, c. 34

V.M.Elinson, A.S.Abolentsev, T.V.Khodyrev, P.A.Shchur

The effect of the surface charge of electrets on the resistance to fungi of fluorocarbon polymer materials № 2, c. 106

A.S.Kolobkov

Electroforming of synthetic fibres and their applications (Overview) № 2, c. 118

A.A.Churakova, E.M.Kayumova

Structural features and mechanical characteristics of the $Ti_{49.4}Ni_{50.6}$ alloy during thermal cycling in the range of multiple martensitic transformations № 2, c. 128

O.A.Farus

Biodegradable film materials based on polymer hydrogels and silver nanoparticles № 3-4, c. 196

A.G.Kolesnikov, Yu.A.Kryukov, N.V.Gorbunov, A.Kh.Abduev, A.Sh.Asvarov, A.K.Akhmedov, S.A.Kulikov, A.V.Churakov, A.V.Shadrin

Low temperature formation of boron carbide thin films enriched boron isotope ^{10}B № 5, c. 290

V.V.Syzrantsev

The role of the surface structure of nanoparticles in their hardening of epoxy resin № 6, c. 346

V.I.Kapustin, I.P.Li, N.E.Kozhevnikova

Trace impurities have synergistic effects on electronic structure of oxide-nickel cathodes № 6, c. 354

G.D.Khudododova, O.B.Kulyasova, R.K.Islamgaliev

Strength and corrosion resistance of the UFG Mg-Zn-Ca alloy № 7-8, c. 426

NANOTECHNOLOGIES

T.A.Smirnova, Z.S.Plieva, M.V.Zubasheva, A.I.Akhmetova, Yu.A.Smirnov, V.G.Zhukhpvitsky, I.V.Yaminsky

Structural organisation of the surface of *Bacillus cereus* spores № 1, c. 8

I.F.Khanbekov, V.P.Mikhailov

Research of the ultrasonic activation processes of diffusion and desorption in electrovacuum devices.... № 1, c. 20

V.V.Zalipaev, D.Yu.Kobtsev, D.O.Zinchenko, O.V.Andreeva

Structure characterisation of nanoporous silicate matrices by optical methods № 1, c. 28

A.A.Trukhova, A.S.Filonov, I.V.Yaminsky

The words and glory of probe microscopy: language will take you to Beijing № 2, c. 88

A.E.Sidorova, V.S.Bystrov, A.O.Lutsenko, D.K.Shpigun, E.V.Belova

Method for assessment of the chirality of proteins and phenylalanine nanotubes as an effective tool of nanobioengineering № 2, c. 96

I.V.Yaminsky, A.I.Akhmetova, T.O.Sovetnikov, M.A.Tikhomirova, Shuang Yang

Scanning capillary microscopy: tumour cells visualisation № 3-4, c. 168

I.V.Yaminsky, A.I.Akhmetova, D.V.Kornilov

Fashion for the flirt mode № 3-4, c. 178

V.A.Kazakov, A.V.Smirnov, A.V.Kokshina, E.S.Tyunterov, V.S.Abrukov, D.A.Anufrieva

Synthesis and study of the hybrid metal-carbon systems optical properties: linear-chain carbon films doped with silver № 3-4, c. 186

M.V.Zubasheva, A.I.Akhmetova, T.A.Smirnova, N.V.Shevlyagina, Yu.A.Smirnov, V.G.Zhukhovitsky, I.V.Yaminsky

Crystal formation in bacterial cells of *Brevibacillus laterosporus* № 5, c. 254

G.V.Stepanov, E.Yu. Kramarenko, P.A.Storozhenko

Magnetodeformation effect and vacuum sealing with a magnetoactive elastomer № 5, c. 266

O.P.Posnansky

Method of renormalization of the random three-component system: dynamic characteristics of the effective susceptibility function № 5, c. 272

I.V.Yaminsky, A.I.Akhmetova

Probe microscopy workshop at the physical department of Lomonosov Moscow State university ... № 6, c. 328

E.V.Gladkikh, K.S.Kravchuk, V.N.Reshetov, A.A.Rusakov, A.S.Useinov

Simulation of the indentation of EUROFER97 steel after ion radiation by the finite element method № 6, c. 336

I.V.Yaminsky

High-speed scanning probe microscopy: electronics and software issues..... № 7-8, c. 408

I.V.Yaminsky, A.I.Akhmetova, N.E.Maksimova, A.P.Melnikov, A.F.Akhkiamova, D.A.Ivanov

Measurement of the structure and thermophysical characteristics of the samples by combined atomic force microscopy and nanocalorimetry № 7-8, c. 418