

10. EXPERIMENTAL REPORTS*

DEPARTMENT OF NEUTRON INVESTIGATION OF CONDENSED MATTER

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SAXS STUDIES OF ULTRASONICATED DISPERSIONS OF BIOMINERAL FERRIHYDRITE NANOPARTICLES USING THE ATSAS SOFTWARE PACKAGE ANALYSIS

L. Anghel, M. Balasoiu, A.V. Rogachev, T.S. Kurkin, A.I. Kuklin, L.A. Ishchenko, S.V. Stolyar, R.S. Iskhakov, Yu.L. Raikher, G.M. Arzumanian

CATION DISTRIBUTION IN Zn-SUBSTITUTED Ni-Ga-Fe SPINEL

S.S. Ata-Allah, A.M. Balagurov, A. Hashhash, I.A. Bobrikov, V.G. Simkin, Sh. Hamdy

SANS STUDY OF BIOCOMPATIBLE MAGNETIC FLUIDS STABILIZED WITH POLY(ETHYLENE GLYCOL)

M.V. Avdeev, V.I. Petrenko, A.V. Nagornyi, V.M. Garamus, A.V. Feoktystov, V. Závířová, M. Koneracká, G. Lancz, N. Tomařovičová, M. Timko, P. Kopčanský

MAGNETIC FIELD AND PARTICLE CONCENTRATION COMPETITIVE EFFECTS ON FERROFLUID BASED SILICONE ELASTOMER MICROSTRUCTURE

M. Balasoiu, I. Bica, V.T. Lebedev, A.I. Kuklin, Yu.L. Raikher

NEUTRON DIFFRACTION STUDY OF LiFePO_4 CATHODE MATERIAL DOPED WITH VANADIUM OXIDE

I.A. Bobrikov, V.G. Simkin, Chih-Hao Lee, Chi-Wei Hu, Tsan-Yao Chen, Sangaa Deleg, A.M. Balagurov

NEUTRON DIFFRACTION STUDY OF ATOMIC AND MAGNETIC STRUCTURES OF $\text{La}_{1-x}\text{Sr}_x\text{Fe}_{2/3}\text{Mo}_{1/3}\text{O}_3$

I.A. Bobrikov, V.G. Simkin, S.Ya. Istomin, V.V. Vishnyakova, M.V. Lobanov, E.V. Antipov, A.M. Balagurov

THE STRUCTURAL STUDIES OF ANTIFERROELECTRIC-FERROELECTRIC PHASE TRANSITION IN SODIUM NIOBATE

S.G. Jabarov^a, D.P. Kozlenko, S.E. Kichanov, A.I. Mamedov, B.N. Savenko, R.Z. Mextieva, C. Lathe

THE STRUCTURAL STUDIES OF $\text{Y}_3\text{Al}_5\text{O}_{12}:\text{Ce}^{3+}/\text{Lu}_2\text{O}_3$ PHOSPHORS SYNTHESIZED BY COLLOID-CHEMICAL METHOD

S.E. Kichanov, E.V. Frolova, G.P. Shevchenko, D.P. Kozlenko, A.V. Belushkin, E.V. Lukin, G.E. Malashkevich, S.K. Rakhmanov, V.P. Glazkov and B.N. Savenko

EXPERIMENTAL DETERMINATION OF NEUTRON CHANNELING LENGTH IN PLANAR WAVEGUIDE

S.V. Kozhevnikov, F. Ott, A. Rühm, and J. Major

RIETVELD TEXTURE ANALYSIS OF SKAT DIFFRACTOMETER DATA: RECENT ADVANCES AND PERSPECTIVES

S. Matthies, R.N. Vasin

DEVELOPMENT OF THE SESANS SPECTROMETER ELEMENTS BASED ON ROTATING MAGNETIC FIELDS

A. Rubtsov, A. Ioffe, V. Bodnarchuk, S. Manoshin

NEUTRON AND SYNCHROTRON X-RAY DIFFRACTION STUDY OF MODEL ORAL STRATUM CORNEUM LIPID MIXTURES

N.Yu. Ryabova, A.Yu. Gruzinov, A.V. Zabelin, S.G. Sheverev, A. Buchsteiner, T. Hauß

ISOTHERMAL COMPRESSIBILITY AND THICKNESS OF LIPID BILAYER SIMULTANEOUSLY MEASURED UNDER HYDROSTATIC PRESSURE

D.V. Soloviov, O.I. Ivankov, Yu.E. Gorshkova, T.B. Petuhova, Yu.S. Kovalev, A.P. Sirotin, V.I. Gordeli, A.I. Kuklin

STRUCTURE OF CLUSTERS IN AQUEOUS DISPERSIONS OF NANODIAMONDS BY SMALL-ANGLE NEUTRON SCATTERING: EXPONENTIAL/POWER-LAW APPROACH

O.V. Tomchuk, L.A. Bulavin, V.M. Garamus, V.L. Aksenov, M.V. Avdeev

*All experimental reports are published as submitted by the authors.



10. EXPERIMENTAL REPORTS*

STUDY OF C₆₀/NMP/TOLUENE AND C₆₀/NMP/WATER SOLUTIONS BY UV-VIS SPECTROSCOPY AND SMALL-ANGLE NEUTRON SCATTERING

T.V. Tropin, T.O. Kyrey, O.A. Kyzyma, A.V. Feoktistov, M.V. Avdeev, L.A. Bulavin, L. Rosta, V.L. Aksenov

UPGRADE OF THE NEUTRON OPTICAL SYSTEM FOR THE DIFFRACTOMETERS Epsilon-MDS AND SKAT AT THE REACTOR IBR-2

K. Walther, Ch. Scheffzueck, F. Shilling, A. Frischbutter, A.P. Bulkin, V.A. Kufryashov, V.V. Shuravlev, A.V. Belushkin

NUCLEAR PHYSICS DEPARTMENT

NEUTRON ACTIVATION ANALYSIS OF SEDIMENTS AND ROCKS FROM TWO LAKES OF ROMANIA

O.G. Dului, S.M. Lyapunov, M.V. Frontasyeva

APPLICATION OF SOME MICROORGANISMS FOR SYNTHESIS OF GOLD AND SILVER NANOPARTICLES

M.V. Frontasyeva, S.S. Pavlov, I.I. Zinicovscaia, E.I. Kirkesali, T. Kalabegishvili, I. Murusidze, A. Faanhof

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