

5. PUBLICATIONS

CONDENSED MATTER PHYSICS

Diffraction

1. Amelichev V.A., Gorbenko O.Yu., Kaul A.R., Gan'shina E.A., Balagurov A.M., Bushmeleva S.N., Pomjakushin V.Yu., Sheptyakov D.V., Babushkina N.A., Belova L.M., Rao K.V. Crystal structure and magnetic properties of $(\text{Nd}_{1-x}\text{Sr}_x)(\text{Mn}_{1-x}\text{Ru}_x)\text{O}_3$ perovskite. Submitted to J. of Solid St. Chemistry, 2002.
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3. Baeva M., Beskrovny A., Yadrovskiy E., Danilkin S. Compositional dependence of γ - α transition in high nitrogen Fe-Cr-Mn alloys. Submitted to Journal of Materials Science and Technology.
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5. Balagurov A.M., Pomjakushin V.Yu., Sheptyakov D.V., Babushkina N.A. Oxygen isotope effect on crystal and magnetic structure of $(\text{La}_{1-y}\text{Pr}_y)_{0.7}\text{Ca}_{0.3}\text{MnO}_3$. Applied Physics A: Materials Science & Processing, 2002, v.75.
6. Beskrovnyi A.I., Golosovvsky I., Fokin A., Kumzerov Yu., Kurbakov A., Naberezhnov A., Vakhrushev S. Structure evolution and formation of a pre-melted state in NaNO_2 confined within porous glass. Submitted to Journal of Appl. Phys.
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8. Glazkov V.P., Kichanov S.E., Kozlenko D.P., Savenko B.N., Somenkov V.A. Transformation of the Magnetic Structure of FeBO_3 under High Pressures. JETP Letters, 2002, v. 76, pp. 215-217 (in Russian).
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12. Martinez Sarrion M.L., Mestres L., Herraiz M., Belushkin A.V., Balagurov A.M., Beskrovnyi A.I., Vasilovskii S.G., Smirnov L.S. Synthesis and characterisation of new semiconductor Aurivillius phase. Eur. J. of Inorg. Chem. 2002, 1794-1800.
13. Nietz V.V. Neutron diffraction at domain structure reorganization of hematite in a pulsed magnetic field. Submitted to Journal of Magnetism and Magnetic Materials.
14. Nietz V.V. Neutron research of hysteresis at a spin-flop transition induced by a pulsed magnetic field. Submitted to Journal of Magnetism and Magnetic Materials.
15. Nietz V.V. Neutron scattering by magnetic ball solutions. Submitted to Journal of Magnetism and Magnetic Materials.
16. Nietz V.V. Prospects for the use of pulsed fields in condensed matter neutron research. Submitted to Journal of Magnetism and Magnetic Materials.
17. Plyasova L.M., Anufrienko V. F., Beskrovnyi A.I., Molina I.Y., et al. Influence of reductive-oxidative processings on magnetic properties of chromite copper. "Journal of Structural Chemistry", 2002, v.43, № 2, p.274
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24. Bikkulova N.N., Danilkin S.A., Fouss H., Skomorokhov A.N., Beskrovniy A.I., Yagafarova Z.A., Yadrovskiy E.L., Asylgujina G.N. Investigation of structural peculiarities of copper selenide of nonstoichiometric compounds by elastic neutron scattering and X-ray diffraction analysis. Submitted to *Kristallografiya*. (in Russian).
25. Vinogradov A.A., Efimov V.V., Sikolenko V.V., et al. Optical and structural study of PZLT ($x=4.8\%$) Seignette-ceramics irradiated by high-current pulsed electron beam. *Letters to EPAN*, 2002, v.1, pp. 39-47 (in Russian).
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Textures and stresses

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7. Kuzmin E.S., Balagurov A.M., Bokuchava G.D., Zhuk V.V., Kudryashev V.A., Bulkin A.P., Trounov V.A. Detector for the FSD Fourier-diffractometer based on $ZnS(Ag)^6LiF$ scintillation screen and wavelength shifting fiber readout. *J. of Neutron Research*, 2002, v.10, pp. 31-41.
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10. Luzin V., Brokmeier H.-G. (2002): Attenuation Corrections in Neutron Texture Experiment. *Materials Science Forum*, v.408-412, pp.191-196.
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Small-angle neutron scattering

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3. Aksenov V.L., Avdeev M.V., Balasoïu M., Vekas L., Bica D., Rosta L., Torok D. Concentration effect in magnetic liquids deduced from small-angle neutron scattering data. Poverkhnost, 2002, N7, p.11 (in Russian).
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Reflectometry, polarized neutrons

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Inelastic scattering of neutrons

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