

3. PUBLICATIONS

PUBLISHED PAPERS

DEPARTMENT OF NEUTRON INVESTIGATION OF CONDENSED MATTER

Atomic and magnetic structures (diffraction)

- Alekseev P.A., Nemkovski K.S., Kozlenko D.P., Menushenkov A.P., Yaroslavtsev A.A., Gribov A.V., Clementyev E.S., Pantalei C., Klobes B., Hermann R.P., "Coexistence of long range magnetic order and intervalent state of Eu in $\text{EuCu}_2(\text{Si}_x\text{Ge}_{1-x})_2$: evidence from neutron diffraction and spectroscopic studies", **JETP Letters**, 2014, v. 99, p. 185-189.
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- Jabarov S.H., Kichanov S.E., Kozlenko D.P., Mehdiyeva R.Z., Lathe C., Mammadov A.I., Lukin E.V., Savenko B.N., The pressure effect on crystal structure of complex ferroelectrics $\text{Ba}_4\text{Sm}_2\text{Fe}_2\text{Nb}_8\text{O}_{30}$ and $\text{Ba}_4\text{Gd}_2\text{Fe}_2\text{Nb}_8\text{O}_{30}$. **Zeitschrift für Kristallographie**, 2014, DOI:0.1515/zkri-2014-1753.
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- Karpinsky D.V., Troyanchuk I.O., Mantyskaya O.S., Chobot G.M., Sikolenko V.V., Efimov V., Tovar M., Магнитные и пьезоэлектрические свойства системы $\text{Bi}_{1-x}\text{La}_x\text{FeO}_3$ вблизи перехода из полярной в антиполярную фазу. **Физика твёрдого тела**, 2014, v. 56, p. 674-678.
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- Karpinsky, D., I.O. Troyanchuk, M. Tovar, V. Sikolenko, V. Efimov, V. Efimova, V. Shur, A. Kholkin Temperature and Composition-Induced Structural Transitions in $\text{Bi}_{1-x}\text{La}_x(\text{Pr})_x\text{FeO}_3$ ceramics. **Journal of the American Ceramic Society**, 2014, v. 97, p. 2631-2638.
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- Балагуров А.М., Бобриков И.А., Самойлова Н.Ю., Дрожжин О.А., Антипов Е.В. Применение рассеяния нейтронов для анализа процессов в литий-ионных аккумуляторах, **Успехи Химии**, 2014, т. 83, № 12.
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Nanostructured materials (small-angle scattering and diffraction)

- Kichanov S.E., Shevchenko G.P., Tretyak E.V., Kozlenko D.P., Malashkevich G.E., Belushkin A.V., Savenko B.N., The structural and luminescent properties of $\text{Lu}_3\text{Al}_5\text{O}_{12}:\text{Ce}^{3+} + \text{Lu}_2\text{O}_3$ crystal phosphors prepared by colloid chemical synthesis. **Journal of Alloys and Compounds**, 2014, v. 613, p. 238-243.
- Кичанов С.Е., Исламов А.Х., Самойленко С.А., Козленко Д.П., Белушкин А.В., Гурин В.С., Шевченко Г.П., Трусова Е.Е., Булавин Л.А., Савенко Б.Н., Исследование особенностей структуры оксидных нанокластеров

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23. Самойленко С.А., Третьяк Е.В., Шевченко Г.П., Кичанов С.Е., Козленко Д.П., Малашкевич Г.Е., Ступак А.П., Савенко Б.Н., Особенности кристаллической структуры и оптических свойств $\text{Lu}_3\text{Al}_5\text{O}_{12}:\text{Ce}^{3+}$, полученного коллоидно-химическим методом синтеза. **Журнал прикладной спектроскопии**, 2014, т. 81, № 6, с. 958-965.
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- Soft matter, liquids (small angle scattering and diffraction)**
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3. PUBLICATIONS

48. Tomchuk O.V., Bulavin L.A., Aksenov V.L., Garamus V.M., Ivankov O.I., Vul' A.Ya., Dideikin A.T., Avdeev M.V., Small-angle scattering from polydisperse particles with a diffusive surface, **Journal of Applied Crystallography**, 2014, v.47, p. 642–653
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Thin films (reflectometry, polarized neutrons)

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Atomic and magnetic dynamics (inelastic neutron scattering)

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 89. Tomchuk O.V., Structural studies of detonation nanodiamonds by small-angle neutron scattering, PAC for Condensed matter physics of JINR, June 23-24, 2014, Dubna, Russia, oral presentation.
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