

**Список основных публикаций А.А. Велигжанин по смежным оппонируемой диссертации тематикам в рецензируемых изданиях за последние 5 лет**

1. Glezer A. M., Muradimova L. F., Borisova P. A., Veligzhanin A. A., Chernysheva O. V., Sundeev R. V., Louguine-Luzgin D. V., Perov N. S., Shirshikov S. O., Tomchuk. EXAFS-spectroscopy and thermal neutron diffraction study of the effect of deformation by high pressure torsion on the atomic ordering and magnetic properties of the FeCo alloy // Journal of Alloys and Compounds. – 2021. – Т. 866.
2. Akimova O. V., Veligzhanin A. A., Svetogorov R. D., Gorbunov S. V., Roshan N. R., Burkhanov G. S. Kinetics of Hydrogen Absorption from a Gas Phase by Diffusion Filtering Pd–Y Membranes // Physics of Metals and Metallography. – 2020. – Т. 121, № 2. – С. 157-163.
3. Akimova O. V., Veligzhanin A. A., Svetogorov R. D., Gorbunov S. V., Roshan N. R., Burkhanov G. S. Strain-Induced Lattice Distortions of a Hydrogenated Palladium-Based Alloy // Russian Metallurgy (Metally). – 2020. – Т. 2020, № 10. – С. 1151-1156.
4. Akimova O. V., Veligzhanin A. A., Svetogorov R. D., Gorbunov S. V., Roshan N. R., Burkhanov G. S. Defect structure evolution in the process of relaxation of the Pd-Y-H system // International Conference PhysicA.SPb 2020 / Под ред. Averkiev N. S. и др. – Т. 1697 –IOP Publishing Ltd, 2020. – .
5. Akimova O. V., Veligzhanin A. A., Svetogorov R. D. Kinetics of the Structure Evolution of Diffusion Membrane Filters of the Pd–Y System after Hydrogenation // Journal of Surface Investigation. – 2020. – Т. 14, № 5. – С. 867-874.
6. Sundeev R. V., Shalimova A. V., Veligzhanin A. A., Chernysheva O. V., Glezer A. M., Perov N. S., Alekhina Y. A., Umnova N. V. The effect of changes in the local atomic structure on the magnetic properties of amorphous iron-based alloys deformed by high-pressure torsion at different temperatures // Journal of Alloys and Compounds. – 2019. – Т. 797. – С. 622-629.
7. Kazak N. V., Platunov M. S., Knyazev Y. V., Moshkina E. M., Solovyov L. A., Vereshchagin S. N., Mikhlin Y. L., Veligzhanin A. A., Trigub A. L., Ovchinnikov S. G. Study of mixed-valence Mn<sub>2</sub>BO<sub>4</sub> using XRD, XPS and XAFS spectroscopies // Physica B: Condensed Matter. – 2019. – Т. 560. – С. 228-235.
8. Dudnikov V. A., Kazak N. V., Orlov Y. S., Vereshchagin S. N., Gavrilkin S. Y., Tsvetkov A. Y., Gorev M. V., Veligzhanin A. A., Trigub A. L., Troyanchuk I. O., Ovchinnikov S. G. Structural, Magnetic, and Thermodynamic Properties of Ordered and Disordered Cobaltite Gd<sub>0.1</sub>Sr<sub>0.9</sub>CoO<sub>3</sub> – δ // Journal of Experimental and Theoretical Physics. – 2019. – Т. 128, № 4. – С. 630-640.
9. Cieschi M. T., Polyakov A. Y., Lebedev V. A., Volkov D. S., Pankratov D. A., Veligzhanin A. A., Perminova I. V., Lucena J. J. Eco-friendly iron-humic nanofertilizers synthesis for the prevention of iron chlorosis in soybean (*Glycine max*) grown in calcareous soil // Frontiers in Plant Science. – 2019. – Т. 10.
10. Veligzhanin A. A., Frey D. I., Shulenina A. V., Gruzinov A. Y., Zubavichus Y. V., Avdeev M. V. Characterization of aggregate state of polydisperse ferrofluids: Some

aspects of anisotropy analysis of 2D SAXS in magnetic field // Journal of Magnetism and Magnetic Materials. – 2018. – T. 459. – C. 285-289.

11. Sofronova S., Moshkina E., Nazarenko I., Veligzhanin A., Molokeev M., Eremin E., Bezmaternykh L. Chemical disorder reinforces magnetic order in ludwigite  $(\text{Ni},\text{Mn})_3\text{BO}_5$  with  $\text{Mn}^{4+}$  inclusion // Journal of Magnetism and Magnetic Materials. – 2018. – T. 465. – C. 201-210.

12. Kolyshkin N. A., Veligzhanin A. A., Zubavichus Y. V., Popov V. V. Anomalous-Diffraction Method Applied to Studying the Structure of the Composite Oxide  $(\text{Eu}_2\text{Hf}_2\text{O}_7)$  // Journal of Surface Investigation. – 2018. – T. 12, № 6. – C. 1176-1181.