

## СВЕДЕНИЯ

об официальных оппонентах по диссертации *Арустамяна Давида Арсеновича* на тему: «Кристаллизация и свойства гетероструктур InGaPAs/GaAs (InP), GaP/Si, AlGaAs/Si для фотоэлектрических преобразователей»

	Фамилия, имя, отчество	Ученая степень, звание	Полное название организации, являющейся основным местом работы, должность	Перечень основных публикаций по теме диссертации в рецензируемых научных изданиях за последние 5 лет
1.	Вербенко Илья Александрович	Доктор физико- математических наук.	Южный Федеральный Университет, директор научно-исследовательского института физики.	<ol style="list-style-type: none"> <li>1. Abubakarov A.G., Pavelko A.A., Sadykov K.A., <b>Verbenko I.A.</b>, Shilkina L.A., Konstantinov G.M., Shevtsova S.I., Dudkina S.I., Andryushina I.N., Reznichenko L.A. Influence of CuO, MnO<sub>2</sub>, NiO, Bi<sub>2</sub>O<sub>3</sub>, and Fe<sub>2</sub>O<sub>3</sub> modifiers on the crystalline structure and electrophysical properties of (Na,Li)NbO<sub>3</sub> solid solutions // Journal of Materials Science. 2017. Vol.52(4). P. 2142-2157.</li> <li>2. Sadykov K.A., <b>Verbenko I.A.</b>, Reznichenko L.A., Pavelko A.A., Shilkina L.A., Konstantinov G.M., Abubakarov A.G., Shevtsova S.I., Pavlenko A.V., Khasbulatov S.V. Phase Pattern of Barium Strontium Titanate System and Dielectric Responses of Its Solid Solutions // Russian Physics Journal. 2017. Vol. 59(12). P. 2162-2167.</li> <li>3. Abubakarov A.G., Shilkina L.A., Reznichenko L.A., Pavlenko A.V., <b>Verbenko I.A.</b>, Manuilov M.B., Noykin Y.M., Yurasov Y.I. Structural effects and their correlation with dielectric responsive and dissipative properties of BSN ceramics // Global Journal of Pure and Applied</li> </ol>

				<p>Mathematics. 2016. Vol. 12(1). P. 517-524.</p> <p>4. Shilkina, L.A., Pavlenko, A.V., Reznitchenko L.A., <b>Verbenko I.A.</b> Phase diagram of the system of <math>(1-x)\text{BiFeO}_3-x\text{PbFe}_{0.5}\text{Nb}_{0.5}\text{O}_3</math> solid solutions at room temperature // Crystallography Reports. 2016. Vol. 61(2). P. 263-269.</p> <p>5. Teplyakova N.A., Titov S.V., <b>Verbenko I.A.</b>, Sidorov N.V., Reznichenko L.A. Research of structure ordering in ceramic ferroelectromagnets <math>\text{Bi}_{1-x}\text{La}_x\text{FeO}_3</math> by raman spectroscopy // Springer Proceedings in Physics. 2016. Vol. 175. P. 259-267</p> <p>6. Boldyrev, N.A., Pavlenko, A.V., Reznichenko L.A., <b>Verbenko I.A.</b>, Konstantinov G.M., Shilkina L.A. Effect of lithium carbonate on the ferroelectric properties of lead ferroniobate ceramics // Inorganic Materials. Vol. 52(1). P. 76-82.</p> <p>7. Shilkina, L.A., <b>Verbenko I.A.</b>, Abubakarov A.G., Reznichenko L.A., Razumovskaya O.N., Sorokun T.N., Aleshin V.A. Features of phase formation in the preparation of bismuth ferrite // Springer Proceedings in Physics 2016. Vol. 175. P. 79-86.</p> <p>8. Sadykov H.A., Reznichenko L.A., Shilkina L.A., Abubakarov A.G., <b>Verbenko I.A.</b>, Pavelko A.A., Konstantinov G.M., Shvetzova S.I., Pavlenko A.V. Microelectronics materials based on BST-ceramics // Research Journal of Pharmaceutical, Biological and Chemical Sciences. 2016. Vol. 6(1). P. 1826-1837.</p> <p>9. Tolmachev G.N., Kovtun A.P., Zakharchenko I.N., Aliev I.M., Pavlenko A.V., Reznichenko L.A., <b>Verbenko I.A.</b></p>
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				<p>Synthesis, structure, and optical characteristics of barium–strontium niobate thin films // <i>Physics of the Solid State</i>. 2015. Vol. 57(1). P. 2106-2111.</p> <p>10. Abubakarov A.G., Reyzenkind Y.A., Reznichenko L.A., Manuilov M.B., Shilkina L.A., Verbenko I.A., Noykin Y.M., Aleshin V.A., Pavelko A.A. Microwave absorption of electromagnetic radiation by ferroelectric complex oxides // <i>Research Journal of Pharmaceutical, Biological and Chemical Sciences</i>. 2015. Vol. 6(1). P. 1731-1741.</p> <p>11. Abubakarov A.G., Shilkina L.A., <b>Verbenko I.A.</b>, Reznichenko L.A., Dudkina S.I. Effect of nonstoichiometry on the structure and dielectric properties of bismuth ferrite // <i>Bulletin of the Russian Academy of Sciences: Physics</i>. 2014. Vol. 78(8). P. 713-715.</p> <p>12. Pavlenko A.V., Boldyrev N.A., Reznichenko L.A., <b>Verbenko I.A.</b>, Konstantinov G.M., Shilkina L.A. Microstructure and dielectric and piezoelectric properties of <math>\text{PbFe}_{0.5}\text{Nb}_{0.5}\text{O}_3</math> ceramics modified with <math>\text{Li}_2\text{CO}_3</math> and <math>\text{MnO}_2</math> // <i>Inorganic Materials</i>. 2014. Vol. 50(7). P. 750-756.</p> <p>13. Abubakarov A.G., <b>Verbenko I.A.</b>, Pavlenko A.V., Tolmachev G.N., Reznichenko L.A., Shilkina L.A., Aliev I.M., Alihadgiev S.H. Optimizing conditions of fabrication and the properties of <math>\text{BaNb}_2\text{O}_6</math>–<math>\text{SrNb}_2\text{O}_6</math> Binary Ceramics // <i>Bulletin of the Russian Academy of Sciences: Physics</i>. 2014. Vol. 78(8). P. 716-718.</p> <p>14. Reznichenko L.A., <b>Verbenko I.A.</b>, Razumovskaya O.N., Shilkina L.A., Bokov A.A., Miller A.I., Talanov M.V. Preparation, structure and piezoelectric properties of PZn-PMn-Pt ceramics in the composition range of large PZn</p>
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