

Сведения об официальном оппоненте

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Ученая степень	д.ф.-м.н.
Шифр специальности и отрасль науки, по которой защищена диссертация	1.5.2 – Биофизика по физико-математическим наукам, 1.1.10 – Биомеханика и биоинженерия по физико-математическим наукам
Полное и сокращенное наименование организации, являющейся основным местом работы	Федеральное государственное бюджетное учреждение науки «Федеральный исследовательский центр «Пушкинский научный центр биологических исследований Российской академии наук», ФИЦ ПНЦБИ РАН
Структурное подразделение	Лаборатория методов оптико-спектрального анализа
Должность	Ведущий научный сотрудник, руководитель лаборатории методов оптико-спектрального анализа
Список основных публикаций по теме диссертации в рецензируемых научных изданиях за последние 5 лет (не более 15)	<ol style="list-style-type: none"> 1. Penkov N, Penkova N. Measurement of the emission spectra of protein solutions in the infrared range. Description of the method and testing using solution of human interferon gamma as an example. <i>Frontiers in Physics</i>. 2020; 8:615917. https://www.frontiersin.org/articles/10.3389/fphy.2020.615917/full 2. Penkov N, Penkova N. Analysis of emission infrared spectra of protein solutions in low concentrations. <i>Frontiers in Physics</i>. 2020; 8:624779. https://www.frontiersin.org/articles/10.3389/fphy.2020.624779/full 3. Penkov NV, Penkova NA. Infrared emission spectroscopy for investigation of biological molecules in aqueous solutions. <i>Physics of Wave Phenomena</i>. 2021; 29(2):164-168. https://link.springer.com/article/10.3103/S1541308X21020102 4. Slatinskaya OV, Pyrkov YuN, Filatova SA, Guryev DA, Penkov NV. Study of the effect of europium acetate on the intermolecular properties of water. <i>Front. Phys</i>. 2021; 9:641110. https://www.frontiersin.org/articles/10.3389/fphy.2021.641110/full 5. Penkov NV, Goltyaev MV, Astashev ME, Serov DA, Moskovskiy MN, Khort DO, Gudkov SV. The Application of Terahertz Time-Domain Spectroscopy to Identification of Potato Late Blight and Fusariosis. <i>Pathogens</i>. 2021; 10(10):1336. https://doi.org/10.3390/pathogens10101336 6. Bobylev AG, Yakupova EI, Bobyleva LG, Molochkov NV, Timchenko AA, Timchenko MA, Kihara H, Nikulin AD, Gabdulkhakov AG, Melnik TN, et al. Nonspecific Amyloid Aggregation of Chicken Smooth-Muscle Titin: In Vitro Investigations. <i>International Journal of Molecular Sciences</i>. 2023; 24(2):1056. https://doi.org/10.3390/ijms24021056 7. Sarimov RM, Binhi VN, Matveeva TA, Penkov NV, Gudkov SV. Un-folding and Aggregation of Lysozyme under the Combined Action of Dithiothreitol and Guanidine Hydrochloride: Optical Studies. <i>International Journal of Molecular Sciences</i>. 2021; 22(5):2710. https://doi.org/10.3390/ijms22052710 8. Bunkin NF, Bolotskova PN, Bondarchuk EV, Gryaznov VG, Kozlov VA, Okuneva MA, Ovchinnikov OV, Penkov NV, Smoliiy OP, Turkanov IF. Dynamics of Polymer Membrane Swelling in Aqueous Sus-

pension of Amino-Acids with Different Isotopic Composition; Photoluminescence Spectroscopy Experiments. *Polymers*. 2021; 13(16):2635. <https://doi.org/10.3390/polym13162635>

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