

## Сведения об официальном оппоненте № 2

Ф.И.О.	Васютинский Олег Святославович
Ученая степень	доктор физико-математических наук
Отрасль науки, по которой защищена диссертация	01.04.08 – Физика и химия плазмы
Полное и сокращенное наименование организации, являющейся основным местом работы	Федеральное государственное бюджетное учреждение науки Физико-технический институт им. А.Ф. Иоффе Российской академии наук (ФТИ им. А.Ф. Иоффе РАН)
Должность	главный научный сотрудник, заведующий лабораторией
Электронная почта	osv.pms@mail.ioffe.ru
Список основных публикаций по теме диссертации в рецензируемых научных изданиях за последние 5 лет (не более 15).	<ol style="list-style-type: none"> <li>1. Belashov A.V., Zhikhoreva A.A., Salova A.V., Belyaeva T.N., Litvinov I.K., Kornilova E.S., ... &amp; <b>Vasyutinskii O.S.</b> Analysis of Radachlorin localization in living cells by fluorescence lifetime imaging microscopy //Journal of Photochemistry and Photobiology B: Biology. – 2023. – Т. 243. – С. 112699.</li> <li>2. Gorbunova I.A., Sasin M.E., Yachkov D.V., Volkov D.A., Vedyaykin A.D., Nikiforov A.A., <b>Vasyutinskii O.S.</b> Two-Photon Excited Fluorescence of NADH-Alcohol Dehydrogenase Complex in a Mixture with Bacterial Enzymes //Biomolecules. – 2023. – Т. 13. – №. 2.–С. 256.</li> <li>3. Zhikhoreva A.A., Belashov A.V., Danilova A.B., Avdonkina N.A., Baldueva I.A., Gelfond M.L., ... &amp; <b>Vasyutinskii O.S.</b> Significant difference in response of malignant tumor cells of individual patients to photodynamic treatment as revealed by digital holographic microscopy //Journal of Photochemistry and Photobiology B: Biology. – 2021. – Т. 221. – С. 112235.</li> <li>4. Sasin M. E., Gorbunova I.A., Bezverkhni N.O., Beltukov Y.M., <b>Vasyutinskii O.S.</b>, Rubayo-Soneira J. Polarized fluorescence in NADH two-photon excited by femtosecond laser pulses in the wavelength range of 720–780 nm //Technical Physics Letters. – 2019. – Т. 45. – С. 672-674.</li> <li>5. Belashov A.V., Zhikhoreva A.A., Belyaeva T.N., Nikolsky N.N., Semenova I.V., Kornilova E.S., <b>Vasyutinskii O.S.</b> Quantitative assessment of changes in cellular morphology at photodynamic treatment in vitro by</li> </ol>

means of digital holographic microscopy //Biomedical optics express. – 2019. – T. 10. – №. 10. – C. 4975-4986.

6. Zhikhoreva A.A., Belashov A.V., Belyaeva T.N., Salova A.V., Litvinov I.K., Kornilova E.S., ... & **Vasyutinskii O.S.** Comparative analysis of Radachlorin accumulation, localization, and photobleaching in three cell lines by means of holographic and fluorescence microscopy //Photodiagnosis and photodynamic therapy. – 2022. – T. 39. – C. 102973.

7. Gorbunova I.A., Danilova M.K., Sasin M.E., Belik V.P., Golyshev D.P., & **Vasyutinskii O.S.** Determination of fluorescence quantum yields and decay times of NADH and FAD in water–alcohol mixtures: The analysis of radiative and nonradiative relaxation pathways //Journal of Photochemistry and Photobiology A: Chemistry. – 2023. – T. 436. – C. 114388.

8. Zhikhoreva A.A., Belashov A.V., Ignatov E.S., Gelfond M.L., Semenova I.V., & **Vasyutinskii O.S.** Singlet oxygen generation in aerosol jet and on biological surfaces //Journal of Photochemistry and Photobiology B: Biology. – 2022. – T. 228. – C. 112395.

9. Zhikhoreva A.A., Belashov A.V., Serebryakov E.B., Semenova I.V., & **Vasyutinskii O.S.** Photophysical properties of methylene blue in aqueous solution sprayed onto biological surfaces //Dyes and Pigments. – 2022. – T. 208. – C. 110789.

10. Beltukova D.M., Danilova M.K., Gradusov I.A., Belik V.P., Semenova I.V., & **Vasyutinskii O.S.** Polarised fluorescence in FAD excited at 355 and 450 nm in water–propylene glycol solutions //Molecular Physics. – 2022. – T. 120. – №. 18. – C. e2118186.