

Сведения о ведущей организации

Полное наименование:

Федеральное государственное бюджетное учреждение науки Институт химической кинетики и горения им. В.В. Воеводского Сибирского отделения Российской академии наук

Сокращенное наименование:

ИХКГ СО РАН

Почтовый адрес:

630090, Новосибирск, Институтская ул., 3

Телефон:

+7(383) 330-91-50

Адрес электронной почты:

admin@kinetics.nsc.ru

Адрес официального сайта:

<http://www.kinetics.nsc.ru>

Список основных публикаций сотрудников ведущей организации по теме диссертации в рецензируемых научных изданиях за последние 5 лет:

1. Matveeva A.G., Syryamina V.N., Nekrasov V.M., Lukina E.A., Molchanov I.A., Sysoev V.I., Kulik, L. V. Straightforward determination of the average electron-hole distance in charge-transfer state organic photovoltaic donor/acceptor composites from out-of-phase electron spin echo data // Journal of Composites Science. — 2025. — V. 9, № 2. — 51: 1–15.

2. Дзюба С.А. Импульсная дипольная спектроскопия ЭПР наноразмерных олигомеров и кластеров молекул // Успехи химии. — 2025. — Т. 94, № 11. — С. 1–23.

3. Golysheva E.A., Kashnik A.S., Baranov D.S., Dzuba S.A. Nanoclusters of guest molecules in lipid rafts of a model membrane revealed by pulsed dipolar EPR spectroscopy // Journal of Physical Chemistry B: Biophysical

Chemistry, Biomaterials, Liquids, and Soft Matter. — 2025. — V. 129, № 2. — P. 650–658.

4. Popov A.A., Lukina E.A., Reijerse E.J., Lubitz W., Kulik L.V. Out-of-phase ELDOR spectroscopy: a precise tool for investigating structure and dynamics of charge-transfer states in organic photovoltaic blends // *Journal of Chemical Physics*. — 2025. — V. 162, № 1. — 014201: 1–10.

5. Melnikov A.R., Maryasov A.G., Ishchenko A.S., Getmanov Y.V., Isaev N.P., Efimov N.N., Fedin M.V., Veber S.L. Application of pulsed heating in time-resolved EPR spectroscopy for longitudinal relaxation measurements // *Journal of Chemical Physics*. — 2025. — V. 163, № 16. — 164201: 1–12.

6. Syryamina V.N., Matveeva A.G., Bowman M.K. Confidence limits in pulse dipolar EPR spectroscopy: estimates for individual measurements // *Physical Chemistry Chemical Physics*. — 2024. — V. 26, № 6. — P. 5537–5547.

7. Kravets V., Kulik L.V., Zinovyev V.A., Uvarov M.N. Paramagnetic defects and photobleaching effects of polymer PCDTBT thin films with the admixtures of fullerene PCBM, beta-carotene and fluorinated carbon nanotubes // *Chemical Physics Letters*. — 2024. — V. 857. — 141698: 1–13.

8. Lukina E.A., Kulikova A.V., Uvarov M.N., Popov A.A., Liu M., Zhang Y., Kulik L.V. Structure of the charge-transfer state in PM6/Y6 and PM6/Y6:YT composites studied by electron spin echo technique // *Nanomanufacturing*. — 2023. — V. 3, № 2. — P. 123–134.

9. Isaev N.P., Melnikov A.R., Lomanovich K.A., Dugin M.V., Ivanov M.Yu., Polovyanenko D.N., Veber S.L., Bowman M.K., Bagryanskaya E.G. A broadband pulse EPR spectrometer for high-throughput measurements in the X-band // *Journal of Magnetic Resonance Open*. — 2023. — V. 14–15. — 100092: 1–10.

10. Syryamina V.N., Wu X., Boulos S., Nyström L., Yulikov, M. Pulse EPR spectroscopy and molecular modeling reveal the origins of the local heterogeneity of dietary fibers // *Carbohydrate Polymers*. — 2023. — V. 319. — P. 121167–121167.

11. Kashnik A.S., Syryamina V.N., Biondi B., Peggion C., Formaggio F., Dzuba S. A. DEER/PELDOR study of the effect of extremely low concentrations of the antimicrobial peptide calceporin a on the membrane lipid organization // Applied Magnetic Resonance. — 2023. — V. 54, № 3. — P. 401–414.

12. Syryamina V.N., Astvatsaturov D.A., Dzuba S.A., Chumakova N.A. Glass-like behavior of intercalated organic solvents in graphite oxide detected by spin-probe EPR // Physical Chemistry Chemical Physics. — 2023. — V. 25, № 37. — P. 25720–25727.

13. Baranov D.S., Smorygina A.S., Dzuba S.A. Synthesis of spin-labeled ibuprofen and its interaction with lipid membranes // Molecules. — 2022. — V. 27, № 13. — 4127: 1–10.

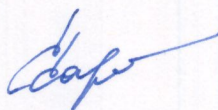
14. Dzuba S.A. Probing small-angle molecular motions with EPR spectroscopy: dynamical transition and molecular packing in disordered solids // Magnetochemistry. — 2022. — V. 8, № 2. — 19: 1–38.

15. Syryamina V.N., Yulikov M., Nyström L. The Cu(II) – dietary fiber interactions at molecular level unveiled via EPR spectroscopy // RSC Advances. — 2022. — V. 12, № 31. — P. 19901–19916.

Ученый секретарь

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кандидат физико-математических наук



С.Ю. Сарвадий

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