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Образование

2020–2024	Россия, Москва	ИОФ РАН	Аспирантура
2018–2020	Россия, Москва	НИЯУ МИФИ	Магистр

Работа

2020–наст.вр.	Россия, Москва	ИОФ РАН	м.н.с.
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Работа в ИБХ

2020–наст.вр.	Младший научный сотрудник
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Научные интересы

Токсинология

Спектроскопия

Публикации

- Mozhaeva VA**, Vassilevski AA, Starkov VG, Kudryavtsev DS, Prokhorov KA, Garnov SV, Utkin YN (2025). Identification of animal venoms by Raman spectroscopy combined with principal component analysis. *Microchem J* 219, , [10.1016/j.microc.2025.115966](https://doi.org/10.1016/j.microc.2025.115966)
- Melentiev PN, Kalmykov AS, Gritchenko AS, Shemeteva MP, Safonova AM, Markov MS, Balykin VI, Bukatin AS, Vaulin NV, Belov DA, Evstrapov AA, Baklykov DA, Andriyash AV, Barbasheva AA, Kuguk AK, Ryzhkov VV, Rodionov IA, Kudryavtsev DS, **Mozhaeva VA**, Son LV, Tsetlin VI, Khlebtsov BN, Kobzev MS, Kuznetsova YO, Sharipov BT, Yashkin AS, Alekseev YI (2024). Optical methods for detection of single biomolecules: visualization, sensorics, sequencing of DNA molecules. *PHYS-USP+* 67 (11), 1069–1083, [10.3367/UFNe.2024.07.039720](https://doi.org/10.3367/UFNe.2024.07.039720)
- Kudryavtsev DS, **Mozhaeva VA**, Ivanov IA, Siniavin AE, Kalmykov AS, Gritchenko AS, Khlebtsov BN, Wang SP, Kang B, Tsetlin VI, Balykin VI, Melentiev PN (2024). Optical detection of infectious SARS-CoV-2 virions by counting spikes. *Nanoscale* 16 (26), 12424–12430, [10.1039/d4nr01236d](https://doi.org/10.1039/d4nr01236d)
- Mozhaeva VA**, Starkov VG, Kudryavtsev DS, Prokhorov KA, Garnov SV, Utkin YN (2024). Analysis of intra-specific variations in the venom of individual snakes based on Raman spectroscopy. *Spectrochim Acta A* 314, 124239, [10.1016/j.saa.2024.124239](https://doi.org/10.1016/j.saa.2024.124239)
- Kost V, Sukhov D, Ivanov I, Kasheverov I, Ojomoko L, Shelukhina I, **Mozhaeva V**, Kudryavtsev D, Feofanov A, Ignatova A, Utkin Y, Tsetlin V (2023). Comparison of Conformations and Interactions with Nicotinic Acetylcholine Receptors for E. coli-Produced and Synthetic Three-Finger Protein SLURP-1. *Int J Mol Sci* 24 (23), 16950, [10.3390/ijms242316950](https://doi.org/10.3390/ijms242316950)
- Mozhaeva V**, Starkov V, Kudryavtsev D, Prokhorov K, Garnov S, Utkin Y (2023). Differentiation of snake

venom using Raman spectroscopic analysis. *J Mater Chem B Mater Biol Med* 11 (27), 6435–6442, [10.1039/d3tb00829k](https://doi.org/10.1039/d3tb00829k)

7. Sarimov RM, Matveyeva TA, **Mozhaeva VA**, Kuleshova AI, Ignatova AA, Simakin AV (2022). Optical Study of Lysozyme Molecules in Aqueous Solutions after Exposure to Laser-Induced Breakdown. *Biomolecules* 12 (11), , [10.3390/biom12111613](https://doi.org/10.3390/biom12111613)
8. **Mozhaeva V**, Kudryavtsev D, Prokhorov K, Utkin Y, Gudkov S, Garnov S, Kasheverov I, Tsetlin V (2022). Toxins' classification through Raman spectroscopy with principal component analysis. *Spectrochim Acta A* 278, 121276, [10.1016/j.saa.2022.121276](https://doi.org/10.1016/j.saa.2022.121276)
9. Siniavin AE, Streltsova MA, Nikiforova MA, Kudryavtsev DS, Grinkina SD, Gushchin VA, **Mozhaeva VA**, Starkov VG, Osipov AV, Lummis SCR, Tsetlin VI, Utkin YN (2021). Snake venom phospholipase A2s exhibit strong virucidal activity against SARS-CoV-2 and inhibit the viral spike glycoprotein interaction with ACE2. *Cell Mol Life Sci* 78 (23), 7777–7794, [10.1007/s00018-021-03985-6](https://doi.org/10.1007/s00018-021-03985-6)