

	<p>ZYUZIN, Mikhail V. Candidate of Science</p>
<p>Research interests</p>	<p>Development of nanomaterials for biomedical applications, drug delivery, light-sensitive nanomaterials, microfluidics</p>
<p>List of the supervisor's research projects (participation/supervision)</p>	<ul style="list-style-type: none"> ✓ Photosensitive carriers as a universal platform for targeted delivery and photomediated release of drugs for efficient treatment of skin melanoma (supervision) ✓ Development of a combined method for the treatment of breast cancer using targeted radionuclide therapy in combination with immunotherapy (supervision)
<p>List of potential thesis topics</p>	<ul style="list-style-type: none"> ✓ Development of multifunctional materials for theranostics ✓ Microfluidic synthesis of nanomaterials ✓ Microfluidic platforms for biosensing
<p>Publications in the last five years</p>	<p>73 (Scopus / Web of Science / RSCI)</p>
<p>Key publications</p>	<ol style="list-style-type: none"> 1. T. Karpov, A. Postovalova, D. Akhmetova, A. R. Muslimov, E. Eletskaia, M. V. Zyuzin, A. S. Timin, Universal Chelator-Free Radiolabeling of Organic and Inorganic- Based Nanocarriers with Diagnostic and Therapeutic Isotopes for Internal Radiotherapy, Chem. Mater. 2022, 34, 6593–6605 2. I. G. Koryakina, M. Naumochkin, D. I. Markina, S. A. Khubezhov, A. P. Pushkarev, A. A. Evstrapov, S. V. Makarov, M. V. Zyuzin, Single-Step Microfluidic Synthesis of Halide Perovskite Nanolasers in Suspension, Chem. Mater. 2021, 33, 2777–2784 3. G. P. Zograf, A. S. Timin, A. R. Muslimov, I. I. Shishkin, A. Nominé, J. Ghanbaja, P. Ghosh, Q. Li, M. V. Zyuzin, S. V. Makarov*, All-Optical Nanoscale Heating and Thermometry with Resonant Dielectric Nanoparticles for Controllable Drug Release in Living Cells, Laser Photonics Rev. 2020, 1900082 4. E. N. Gerasimova, V. V. Yaroshenko, P. M. Talianov, O. O. Peltek, M. A. Baranov, P. V. Kapitanova, D. A. Zuev, A. S. Timin, M. V. Zyuzin, Real-Time Temperature Monitoring of Photoinduced Cargo Release inside Living Cells Using Hybrid Capsules Decorated with Gold Nanoparticles and Fluorescent Nanodiamonds, ACS Appl.Mater.Interfaces 2021, 13,36737–36746 5. I. G. Koryakina, S. V. Bachinin, E. N. Gerasimova, M. V. Timofeeva, S. A. Shipilovskikh, A. S. Bukatin, A. Sakhatskii, A. S. Timin, V. A. Milichko, M. V. Zyuzin, Microfluidic synthesis of

	metal-organic framework crystals with surface defects for enhanced molecular loading, Chem. Eng. J. 2023, 452, 139450
Code of the subject area of the PhD program	1.3.2 Devices and Methods of Experimental Physics 1.3.6 Optics 1.3.8 Condensed State Physics 1.5.2 Biophysics