


На английском языке:

University	Kazan Federal University
Level of English proficiency	Fluent
Educational program and field of the educational program for which the applicant will be accepted	1.6. Earth & Environmental Sciences for Sustainability 2.8.4 Petroleum Engineering 1.4.12 Petrochemistry
List of research projects of the potential supervisor (participation/leadership)	Supervisor of more than 100 projects for petroleum industry with oil companies from Russia, China, Oman, Cuba, etc. Head of the Russian Science Foundation grant (21-73-30023) - Development of new technological approaches to catalytic underground upgrading of high-viscosity and super-viscous oil; Head of Government R&D project supported by Ministry of Science and Higher Education of Russia "Development of hydrate technologies for increasing the efficiency of processes for obtaining, storing and regasifying hydrates for greenhouse gas utilization technologies" (Project 24-164) Head of the Research Laboratory "Hydrate technologies for the utilization and storage of greenhouse gases"; Head of the Research Laboratory "Enhanced Oil Recovery Methods";
List of the topics offered for the prospective scientific research	Petroleum Engineering Enhanced oil recovery methods In situ combustion Catalytic upgrading of heavy oil Gas injection and CCUS Chemical flooding for enhanced oil recovery Gas hydrates Flow assurance Production Chemistry Hard-to-recover oil reserves
	1.6. Earth & Environmental Sciences for Sustainability 2.8.4 Petroleum Engineering 1.4.12 Petrochemistry
	Petroleum Engineering Enhanced oil recovery methods In situ combustion Catalytic upgrading of heavy oil Gas injection and CCUS Chemical flooding for enhanced oil recovery Gas hydrates Flow assurance Production Chemistry Hard-to-recover oil reserves
	Research highlights: Use of unique equipment, cooperation with international research group, joint project with industrial partners
Research supervisor: Dr. Mikhail A. Varfolomeev,	

<p>PhD in Chemical Sciences Associate Professor</p>	<p>Supervisor's specific requirements: Knowledge of English, publications in peer-reviewed journals</p>
	<p>Supervisor's main publications The total number of publications in journals indexed by Web of Science, Scopus, RSCI over the past 5 years - 235;</p> <ol style="list-style-type: none"> 1. Farhadian A., Shadloo A., Zhao X., Pavelyev R.S., Peyvandi K., Qiu Z., Varfolomeev M.A. Challenges and advantages of using environmentally friendly kinetic gas hydrate inhibitors for flow assurance application: A comprehensive review. <i>Fuel.</i> – (2023). – V. 336. – C. 127055. 2. Varfolomeev M.A., Yuan C., Bolotov A.V., Minkhanov I.F., Mehrabi-Kalajahi S., Saifullin E.R., Marvanov M. M., Baygildin E.R., Sabiryaynov R.M., Rojas A., Emelianov D.A., Al-Muntaser A.A. Effect of copper stearate as catalysts on the performance of in-situ combustion process for heavy oil recovery and upgrading. <i>Journal of Petroleum Science and Engineering.</i> – V. 207 (2021) 109125. 3. Tirado A., Félix G., Varfolomeev M.A., Ancheyta J. Kinetic Analysis of Asphaltene Conversion under Supercritical Water Conditions. <i>Industrial & Engineering Chemistry Research.</i> – V. 63 (2024). – P. 11334 - 11343. 4. Simão A., Domínguez-Álvarez E., Yuan C., Suwaid M. A., Varfolomeev M. A., Ancheyta J., Al-mishaal O.F., Kudryashov S. I., Afanasiev I.S., Antonenko D. A., Petrashov O. V., Dubrovin K.A. On the use of metallic nanoparticulated catalysts for in-situ oil upgrading. <i>Fuel.</i> – V. 313 (2022) 122677. 5. Hakimi M.H., Saeed S.A., Al-Muntaser A.A., Varfolomeev M.A., Djimasbe R., Lashin A., Yelwa N.A., Suwaid M.A. The origins of paraffinic oils collected from oilfields in the western Siberian Basin, Russia: implications from geochemical and physical characteristics. <i>Journal of Petroleum Exploration and Production Technology.</i> – V.12(2022). - P. 35 – 49.
	<p>Results of intellectual activity: H-index – 40 Number of patents over the last 5 years – 29</p>