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Deputy Director of the Center for Technological Competence in the field of digitalization of the agro-industrial complex

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SCIENTIFIC QUALIFICATION

Academic degree

2019: PhD in Fluid Mechanics and Energetics

Research field: fundamental research in the field of fluid physics.

SCIENTIFIC DIRECTION

Participation in the implementation of research within the framework of the state order:

Since 2022 I have been the executor of 2 scientific projects and 1 post-doctoral program.

1. The PTF project "Building a decision-making system for the production of the main types of agricultural crops based on the adaptation of the DSSAT model, the growth and development of agricultural crops, an integrated management system for the production of livestock products based on Smart technologies, with the formation of an information base of scientific and technical documentation on agricultural technologies for the subjects of agriculture, in order to create Smart systems in Agriculture" (2021-2023)
2. PTF project "Development and improvement of integrated protection systems for fruit, vegetable, grain, fodder, legumes and plant quarantine" (2021-2023)
3. Post-doctoral program AP14972680 "Taylor-Couette flow of a yield stress fluid" within the framework of the competition for grant funding of research by young scientists under the project "Zhas Galym" for 2022-2024.

SCIENTIFIC ACHIEVEMENTS

The Hirsch Index is 1

S.Topayev, C. Nouar, D. Bernardin, A. Neveu, and S.A. Bahrani (2019). Taylor-vortex flow in shear-thinning fluids. PHYSICAL REVIEW E. **Q1**

DOI : <https://doi.org/10.1103/PhysRevE.100.023117>.

S.Topayev, C. Nouar and J. Dusek (2021). Secondary in- stabilities in Taylor–Couette flow of shear-thinning fluids. Journal of Fluid Mechanics. **Q1**

DOI : <https://doi.org/10.1017/jfm.2021.1036>.