



MEMBER PROFILE

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Study areas

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| Countries | Russia, Kazakhstan |
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Topics of last three projects

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| 1 | Grant of the Russian Foundation for Basic Research "Influence of climate changes on formation of the runoff and the dangerous hydrological phenomena in the south of the European territory of Russia". |
| 2 | Grant of the Russian Foundation for Basic Research "Research of modern features of formation of a spring high water on the rivers of the European territory of Russia and Western Siberia in the conditions of non-stationary climate and anthropogenous". |
| 3 | Grant of Russian Science Foundation "River runoff parametrization for identification of hydrological hazards and their environmental consequences". |

| Topics of last 10 publications | | Publication links |
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| 1 | Alekseevsky N., Frolova N., Zhuk V. Predicting floods and their effects in the northern European part of Russia. Environmental change and rational water use. (O.Scarpati and J.A.A.Jones, Eds.) Buenos Aires. 2007, pp.341-352. | |
| 2 | Alexeevskiy N. I., Frolova N.L. The Analysis of Dangerous Hydrological Processes for the Terek River Basin In: Threats to Global Water Security. Edited by J. Anthony A. Jones, Trahel G. Vardanian, Christina Hakopian. NATO Science for Peace Security Series | |
| 3 | M. B. Kireeva, N. L. Frolova, E. P. Rets et al. The role of seasonal and occasional floods in the origin of extreme hydrological events // Proceedings IAHS, Extreme Hydrological Events. — Vol. 369. — 2015. — P. 109–113. | DOI:10.5194/piahs-369-109-2015 |
| 4 | Dzhamalov R.G., Frolova N.L., Safronova T.I., Telegina A.A., Bugrov A.A. Distribution and Use of Present Day Water Resources in European Russia // Water Resources. 2015. 42 (1). 28-37. | DOI: 10.1134/S0097807815010030 |
| 5 | N. Frolova, E. Krasnova, M. Fatkhı et al. The applicability of remote sensing and geodetic methods for studying water bodies on the western white sea coast // EARSeL eProceedings. — 2015. — Vol. 14, no. 1. — P. 71–80. | DOI:10.12760/02-2015-1-10 |
| 6 | Zotov L., Shum C., Frolova N. Gravity changes over Russian rivers basins from GRACE. In book: Planetary Exploration and Science: Recent Results and Advances. Springer Geophysics. 2015. 45-59. | DOI:10.1007/978-3-662-45052-9_3 |
| 7 | H. A. Van Lanen, G. Laaha, E. Rets, N.Frolova et al. Hydrology needed to manage droughts: the 2015 european case // Hydrological Processes. 2016. Volume 30, Issue 17 P. 3097–3104. | DOI: 10.1007/978-3-662-45052-9_3 |
| 8 | N. L. Frolova, M. B. Kireeva, D. V. Magritckiy et al. Hydrological hazards in russia: origin, classification, changes and risk assessment // Natural Hazards. — 2016. — P. 1–29. | DOI:10.1007/s11069-016-2632-2 |
| 9 | Y. K. Vasil'chuk, E. P. Rets, J. N. Chizhova, Tokarev I.V., Frolova N.L., Budantseva N.A., Kireeva M.B., Loshakova N.A. et al. Hydrograph separation of the Dzhankuat r., North Caucasus, with the use of isotope methods // Water Resources. 2016. Vol. 43, | DOI: 10.1134/S0097807816060087 |
| 10 | S. A. Agafonova, N. L. Frolova, I. N. Krylenko et al. Dangerous ice phenomena on the lowland rivers of European Russia // Natural Hazards. 2016. P. 1–18. | DOI: 10.1007/s11069-016-2580-x |

| Research interests in water | | | | | | | | | | |
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| Climate & Water | Water in arid areas | Arctic water | Water cycle | Atmospheric water | Glaciers & Cryosphere | | | | | |
| Hydrological extreme events | Floods | Droughts | Ice phenomena | | | | | | | |
| Water flow | Catchment processes | Run-off generation | Groundwater-Surface water interactions | Hyporheic processes | Interstitial water | Porwater | Alluvial water | | | |
| Surface water | Limnology | Fluvial dynamics | Continental scale processes | Dams / Reservoirs | Sediments | Rivers | Floodplains | | | |
| Ground water | Soil water | Karst water | Hydrogeology | Recharge | | | | | | |
| Marine Environment | Coastal waters | Estuarian waters | | | | | | | | |
| Aquatic habitats/ Ecosystems | Wetlands | Lakes | Peatlands | Rivers | | | | | | |
| Water availability | Water utility | Water storage | Dams / Reservoirs | Water scarcity | Supply & Distribution | Water allocation | Water restrictions | | | |
| Modelling and GIS | Hydro GIS | Groundwater modelling | Surface water modelling | Remote sensing | | | | | | |
| Water quality | Pollution | Purification | Hydrochemistry | Treatment | Desalination | Waste water | Sewage | | | |
| Water & Health | Water & Sanitation | Water & Food | Waterborne diseases | Drinking water | Water purification | | | | | |
| Water & Energy | Water-Energy nexus | Water for energy | Energy for water | Water, Food & Energy | | | | | | |
| Water management/ policy | Integrated Catchment management | Integrated water resource management | Water loss | Reticulation & Supply | Transboundary water | | | | | |
| Water use | Urban | Agricultural | Mine water | Industrial | Grey water | Green water | Blue water | Return water | Water sustainability | Competing water use |
| Water Law & Economics | Water trade | Virtual water | Privatisation | Water as public good | Right to water | Bills & Laws | Affordability | | | |
| Socio-political aspects | Water history | Water wars | Water & Poverty | Access to water | | | | | | |