

SERIES OF ARTICLES
for the degree of Doctor of Philosophy (Ph.D.) on specialty
«8D05204 – Meteorology»

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Dissertation topic: «Effect of meteorological parameters on air quality in large cities of Kazakhstan»

1. [Tursumbayeva, M., Muratuly, A., Baimatova, N., Karaca, F., Kerimray, A. \(2023\). Cities of Central Asia: New hotspots of air pollution in the world. *Atmospheric Environment*, 309, 119901. <https://doi.org/10.1016/j.atmosenv.2023.119901>](https://doi.org/10.1016/j.atmosenv.2023.119901)
2. [Mukhtarov, R., Ibragimova, O.P., Omarova, A., Tursumbayeva, M., Tursun, K., Muratuly, A., Karaca, F., Baimatova, N. \(2023\). An episode-based assessment for the adverse effects of air mass trajectories on PM_{2.5} levels in Astana and Almaty, Kazakhstan, *Urban Climate*, 49, <https://doi.org/10.1016/j.uclim.2023.101541>](https://doi.org/10.1016/j.uclim.2023.101541)
3. [Baimatova, N., Omarova, A., Muratuly, A., Tursumbayeva, M., Ibragimova, O.P., Bukenov, B., Kerimray, A. \(2022\). Seasonal Variations and Effect of COVID - 19 Lockdown Restrictions on the Air Quality in the Cities of Kazakhstan. *Environmental Processes*. <https://doi.org/10.1007/s40710-022-00603-w>](https://doi.org/10.1007/s40710-022-00603-w)
4. [Tursumbayeva, M., Kerimray, A., Karaca, F., Permadi, D. A. \(2022\). Planetary Boundary Layer and its Relationship with PM_{2.5} Concentrations in Almaty, Kazakhstan. *Aerosol and Air Quality Research*, 22\(8\), 210294. <https://doi.org/10.4209/aaqr.210294>](https://doi.org/10.4209/aaqr.210294)