

Mindaugas Kazlauskas

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2019 – 2023 Doctoral student of Natural Sciences, Ecology and Environmental Studies (N 012) (Laboratory of Ecotoxicology of the Nature Research Center).
Dissertation topic: “Investigation of the impact of newly developed and environmental materials at the nano- and microscale to organisms of different trophic levels”. Supervisor: Dr. D. Montvydienė
Field of research: nanotoxicity, trophic level, alga, daphnia, plant aungalams.

2011 – 2013 Mykolas Romeris University, Public Administration (specialization - administration of healthcare facilities) / Master's degree. Master's thesis topic: "Availability of dental services at Vilnius University Hospital Žalgiris Clinic".
The work was carried out at Mykolas Romeris University, Faculty of Politics and Management, Institute of Political Sciences. Supervisor: prof. Dr. D. Jankauskienė

2007 – 2009 Lithuanian University of Education, Biology / Master. Master thesis topic: "Comparison of morphophysiological and physiological indicators of artificially bred and naturally spawned salmon fry". The work was carried out at Vilnius Pedagogical University, Faculty of Natural Sciences, and Department of Zoology. Supervisor: Assoc. Dr. K. Baranauskas

PROFESSIONAL EXPERIENCE

2019 11 – until now Head of Department, Budgetary Institution

2020 04 – until now Biologist, Nature Research Center, Laboratory of Ecotoxicology

2015 12 – 2018 04 Head of department, Public Company

2008 07 – 2015 07 Deputy Director, Public Company Vilnius University Hospital Žalgiris Clinic

1998 09 – 2008 07 Manager of business client solutions, Business client manager, Consultant, Closed Joint Stock Company

1997 11 – 1998 Consultant, Closed Joint Stock Company

1997 04 – 1998 11 Consultant, Closed Joint Stock Company

RESEARCH INTERESTS

Area of research - complex study and comparison of the action of newly developed and natural nano- and micro-sized substances on organisms of different trophic levels: algae *Scenedesmus quadricauda*, crustaceans *Daphnia magna* and for plants *Lepidium sativum*; using standardized

toxicological methods to estimate the danger of these substances for organisms and forecast possible risk for terrestrial and aquatic ecosystems; study possibilities of metals removal from water and soil by nanocomposites. I analyze peculiarities of biological effects depending on the size, duration of exposure, and concentration of the studied nanomaterials and determine peculiarities and regularities of accumulation of these substances in organisms. I try to create an empirical model explaining the mechanisms of exposure to nano- and micro-sized substances on aquatic and terrestrial organisms of different trophic levels.

PUBLICATIONS

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (with citation index):

1. Montvydienė D., Šulčius S., Jurgelėnė Ž., Makaras. T, Kalcienė V., Taraškevičius R., **Kazlauskas M.**, Kazlauskienė N. (2020) Contrasting Ecotoxic Effects of Landfill Leachate and Cyanobacterial Biomass on Aquatic Organisms. *Water, Air, & Soil Pollution*, 231 (7): art. No. 323. <https://doi.org/10.1007/s11270-020-04684-x>, IF – 1,890, Q2.
2. Montvydienė D., Jagminas A., Jurgelėnė Ž., **Kazlauskas M.**, Butrimienė R., Žukauskaitė Z., Kazlauskienė N. (2021) Toxicological effects of different-sized Co-Fe (CoFe₂O₄) nanoparticles on *Lepidium sativum* L.: towards better understanding of nanophytotoxicity. *Ecotoxicology* 30 (2): 277-291. <https://doi.org/10.1007/s10646-020-02340-y>, IF – 2,535, Q2.
3. **Kazlauskas M.**, Jurgelėnė Ž., Šemčuk S., Jokšas K., Kazlauskienė N., Montvydienė D. (2023) Effect of graphene oxide on the uptake, translocation and toxicity of metal mixture to *Lepidium sativum* L. plants: mitigation of metal phytotoxicity due to nanosorption. *Chemosphere* 312, 1. <https://doi.org/10.1016/j.chemosphere.2022.137221>, IF - 8,94, Q1.

Scientific articles published in conference proceedings, indexed in „Clarivate Analytics Web of Science“ database:

1. **Kazlauskas M.**, Montvydienė D., Jurgelėnė Ž., Kazlauskienė N. 2020. Toxicity assessment of different size cobalt ferrite nanoparticles on *Lepidium sativum* L. Proceedings of conference Protecton and Restoraton of the Environment XV July 7-10, 2020, Kalamata, Greece, pp. 670. <http://www.preXV.civil.upatras.gr>
2. **Kazlauskas, M.**, Jurgelėnė, Ž., Butrimienė, R., Kazlauskienė, N., Montvydienė, D. 2022. Risk assessment of nano- and micro-sized materials for terrestrial and aquatic ecosystems. Book of Proceedings Ninth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2022) and SECOTOX, Mykonos island, Greece, June 3 to 9. 2022, pp. 239-247 ISBN: 978-618-5494-97-1

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

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| 2020 – 2022 | International project: „Smart water management for sustainable society, framework for organisational decision-making process in water reuse for smart cities“ (Smart-Waterdomain) Partner and representative for Lithuania Dr. Nijolė Kazlauskienė |
| 2020 – 2023 | “Fish as trophic ontogenesis model in transfer of nanoparticles within water trophic chains in climate change context” funded by Research Council of Lithuania Leader Dr. N. Kazlauskienė |

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. **Kazlauskas M.**, Jurgelėnė Ž., Kazlauskienė N., Kalnaitytė A., Bagdonas S., Montvydienė D. 2022. Effect of quantum dots on green algae *Scenedesmus quadricauda* in various media. 3rd Baltic Biophysics Conference. October 6-7th, 2022 in the Center for Physical Sciences and Technology, Saulėtekio av. 3, Vilnius, Lithuania. P. 88 <https://bbc.lbfd.lt/> Stendinis pranešimas.
2. **Kazlauskas M.**, Jurgelėnė, Ž., Butrimienė, R., Kazlauskienė, N., Montvydienė, D. 2022. Risk assessment of nano- and micro-sized materials for terrestrial and aquatic ecosystems. Book of Proceedings Ninth International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2022) and SECOTOX, Mykonos island, Greece, June 3 to 9. Žodinis pranešimas.
3. **Kazlauskas M.**, Butrimienė R., Montvydienė D., Jurgelėnė Ž., Jagminas A., Kazlauskienė N. 2020. Impact of magnetic nanoparticles (CoFe₂O₄, MnFe₂O₄ and Fe₃O₄) on *Lepidium sativum* L. Abstract book. Conference of Natural and Life sciences COINS, Vilnius 2020 kovo mėn. Stendinis pranešimas.
4. Montvydienė D., Jurgelėnė Ž., **Kazlauskas M.**, Butrimienė R., Šemčiuk S., Makaras T., Jokšas K., Kazlauskienė N. The impact of graphene oxide nanostructures on phytotoxicity of metal mixtures and metal uptake in *Lepidium sativum*. Abstract book. Sixth International Symposium on Green Chemistry, Sustainable Development and Circular Economy Thessaloniki, Greece, from September 20 to 23, 2020, Žodinis pranešimas.
5. Jurgelėnė Ž., Montvydienė D., Butrimienė R., **Kazlauskas M.**, Šemčiuk S., Makaras T., Jokšas K., Kazlauskienė N. 2020. Influence of graphene oxide nanostructures on mitigation of metals toxicity to fish at early development Abstract book. Sixth International Symposium on Green Chemistry, Sustainable Development and Circular Economy Thessaloniki, Greece, from September 20 to 23, 2020, Žodinis pranešimas.
6. **Kazlauskas M.**, Butrimienė R., Montvydienė D., Jurgelėnė Ž., Jagminas A., Kazlauskienė N. 2020. Impact of magnetic nanoparticles (CoFe₂O₄, MnFe₂O₄ and Fe₃O₄) on *Lepidium sativum* L. Conference Protection and Restoration of the Environment XV 2020 liepos 5-7, Kalamata, Graikija, Abstracts: <http://www.preXV.civil.upatras.gr>
7. Montvydienė D., Jurgelėnė Ž., **Kazlauskas M.**, Butrimienė R., Šemčiuk S., Makaras T., Jokšas K., Kazlauskienė N. 2020. The impact of graphene oxide nanostructures on Phytotoxicity of metal mixtures and metal uptake in *Lepidium sativum* ABSTRACT. Sixth International Symposium on Green Chemistry, Sustainable Development and Circular Economy Thessaloniki, Greece, from September 20 to 23, 2020.

National scientific conferences:

1. **Kazlauskas M.**, Montvydienė D., Jurgelėnė Ž., Šemčiuk S., Jokšas K., Kazlauskienė N. 2021. Effects of graphene oxide nanostructures and metal mixtures on *Lepidium sativum*. Open Readings 2021, March 16-19, 2021, Vilnius, Lithuania Abstract book. P2-40 P. 209 https://www.openreadings.eu/wp-content/uploads/2021/03/Abstract_book_2021S.pdf
2. **Kazlauskas M.**, Butrimienė R., Montvydienė D., Jurgelėnė Ž., Jagminas A., Kazlauskienė N. Impact of magnetic nanoparticles (CoFe₂O₄, MnFe₂O₄ and Fe₃O₄) on *Lepidium sativum* L. ABSTRACT. Conference of Natural and Life sciences (COINS), 2020 kovas, Poster.

OTHERS

Lithuanian scientific conferences, events, interviews and publications:

1. Jurgelėnė Ž., Kazlauskas M., Butrimienė R. Bučaitė A. 2022. 3-oji Baltijos biofizikų konferencija <https://gamtostyrimai.lt/.../3-oji-baltijos-biofiziku..> ir <https://bbc.lbfd.lt/>