

# Kęstutis Jokęsas

## CONTACT INFORMATION

---

Address Akademijos Str. 2, Vilnius LT-08412, Lithuania  
Tel. no.: +370 5 210 4712  
E-mail: [kestutis.joksas@gamtc.lt](mailto:kestutis.joksas@gamtc.lt)  
[orcid.org/0000-0003-1904-5009](https://orcid.org/0000-0003-1904-5009)  
<https://www.researchgate.net/profile/Kestutis-Joksas>

## EDUCATION AND ACADEMIC DEGREE

---

1977 – 1982 Vilnius University. Faculty of Natural Sciences. Diploma of Engineer geologist - hydrogeologist.  
1989 – 1993 Vilnius University doctoral studies. In 1993 a PhD in Natural Sciences (2E-Geology and Mineralogy).  
Dissertation topic: "Geochemical characteristics of the interaction between nearbottom water and bottom sediments in the Eastern Baltic".

## PROFESSIONAL EXPERIENCE

---

1980 – until now Institute of Zoology and Parasitology, Institute of Geography, Institute of Geology and Geography, Institute of Geology and Geography of the Nature Research Center. Duties: from laboratory technician to senior researcher and laboratory manager.

## RESEARCH INTERESTS

Field of research: Geoecology, sedimentology, hydrogeochemistry, research and analysis of indicators and processes of the natural environment, assessment of contamination of the sea water and bottom sediments. Hazardous pollutants in the environment.

## PUBLICATIONS OF THE LAST FEW YEARS

---

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

1. Nijolė Remeikaitė-Nikienė, Galina Garnaga-Budrė, Galina Lujanienė, **Kęstutis Jokęsas**, Algirdas Stankevičius, Vitalijus Malėjevas, Rūta Barisevičiūtė. 2018. Distribution of metals and extent of contamination in sediments from the south-eastern Baltic Sea (Lithuanian zone). *Oceanologia Volume 60, Issue 2, 193-206.*
2. Rotomskis R., Jurgelėnė Ž., Stankevičius M., Stankevičiūtė M., Kazlauskienė N., **Jokęsas K.**, Montvydienė D., Kulvietis V., Karabanovas V. 2018. CdSe/ZnS quantum dots with fish embryos: Towards understanding of nanoparticles toxicity. *Science of The Total Environment. Volume 635, 1280-1291.*
3. Valskienė R., Baršienė J., Butrimavičienė L., Grygiel W., Stunžėnas V., **Jokęsas K.**, Stankevičiūtė M. 2018. Environmental genotoxicity and cytotoxicity levels in herring (*Clupea harengus*), flounder (*Platichthys flesus*) and cod (*Gadus morhua*) inhabiting the Gdansk Basin of the Baltic Sea. *Marine Pollution Bulletin. Volume 133, 65–76.*

4. Lujanienė G., Kačergius A., Stankevičius A., Malejevas V., Povinec P.P., Li H.-C., Mažeika J., Paškauskas R., Remeikaitė-Nikienė N., Garnaga-Budrė G., Levinskaitė L., **Jokšas K.**, Bugailiškytė D., Šemčuk S. 2018. Carbon isotopes as tracers of organic and inorganic carbon in Baltic Sea sediments. *Radiocarbon*, vol. 60, no. 5. 2018, p 1493–1505.
5. Jurgelėnė Ž., Kazlauskienė N., Montvydienė D., Kulvietis V., Rotomskis R., **Jokšas K.** 2018. Embryotoxicity of Quantum Dots in Rainbow Trout *Oncorhynchus mykiss* During the Hatching Period. *Bulletin of environmental contamination and toxicology*, 101, 2, 191-196.
6. Laura Andreikėnaitė, Milda Stankevičiūtė, Virginija Kalcienė, **Keštutis Jokšas**, Janina Bariene. 2019. Genotoxic, cytotoxic and neurotoxic responses in *Anodonta cygnea* after complex metal mixture treatment. January 2019. *Environmental Science and Pollution Research*. DOI:10.1007/s11356-019-04206-1.
7. Rimutė Stakėnienė, **Keštutis Jokšas**, Arūnas Galkus, Eva Raudonytė-Svirbutavičienė. 2019. Polycyclic aromatic hydrocarbons in surface sediments from the Curonian Lagoon and the Nemunas River Delta (Lithuania, Baltic Sea): distribution, origin, and suggestions for the monitoring program. 2019 April. *Environmental Monitoring and Assessment* 191(4). DOI: 10.1007/s10661-019-7367-6.
8. **Keštutis Jokšas**, Rimutė Stakėnienė, Eva Raudonytė-Svirbutavičienė. 2019. On the effectiveness of tributyltin ban: Distribution and changes in butyltin concentrations over a 9-year period in Klaipėda Port, Lithuania. November 2019. *Ecotoxicology and Environmental Safety* 183:109515 DOI: 10.1016/j.ecoenv.2019.109515.
9. Rimute Stakeniene, **Keštutis Jokšas**, Rimantė Zinkutė, Eva Raudonytė-Svirbutavičienė. 2019. Oil pollution and geochemical hydrocarbon origin markers in sediments of the Curonian Lagoon and the Nemunas River Delta. June 2019. *Baltica* 32(1):22-32. DOI: 10.5200/baltica.2019.1.3.
10. Živilė Jurgelėnė, Milda Stankevičiūtė, Nijolė Kazlauskienė, Janina Baršienė, **Keštutis Jokšas**, Arvydas Markuckas. 2019. Toxicological Potential of Cadmium Impact on Rainbow Trout (*Oncorhynchus mykiss*) in Early Development. August 2019. *Bulletin of Environmental Contamination and Toxicology* 103(5). DOI: 10.1007/s00128-019-02694-y.
11. Galina Lujanienė, Hong-Chun Li, **Keštutis Jokšas**, Sergėj Šemčuk, Nijolė Remeikaitė-Nikienė, Vitalijus Stirbys, Galina Garnaga-Budrė, Algirdas Stankevičius, Pavel P Povinec. 2019. Sources of carbon isotopes in Baltic Sea sediments. October 2019. *Journal of Radioanalytical and Nuclear Chemistry*. DOI: 10.1007/s10967-019-06834-w.
12. Rybakovas, A., **Arbačiauskas, K.**, Markovskienė, V., **Jokšas, K.** 2020. Contamination and genotoxicity biomarker responses in bivalve mussels from the major Lithuanian rivers. *Environmental and molecular mutagenesis*, 61 (3): 338-354. doi: 10.1002/em.22336.
13. Milda Stankevičiūtė, Tomas Makaras, Janina Pažusienė, Brigita Čapukoitienė, Gintarė Sauliutė, Živilė Jurgelėnė, Eva Raudonytė-Svirbutavičienė, **Keštutis Jokšas**, 2021. Biological effects of multimetal (Ni, Cd, Pb, Cu, Cr, Zn) mixture in rainbow trout *Oncorhynchus mykiss*: laboratory exposure and recovery study. *Ecotoxicology and Environmental Safety* 216, 112202.
14. Eva Raudonytė-Svirbutavičienė, Rimutė Stakėnienė, **Keštutis Jokšas**, Darius Valiulis, Steigvilė Byčenkienė, Aleksėj Žarkov, 2021. Distribution of polycyclic aromatic hydrocarbons and heavy metals in soil following a large tire fire incident: A case study. *Chemosphere* 286(1), 131556.
15. Eva Raudonytė-Svirbutavičienė, Rimutė Stakėnienė, Ieva Baužienė, **Keštutis Jokšas**, 2021. Polycyclic aromatic hydrocarbons in various Lithuanian water bodies and a positive matrix factorization-based identification of pollution sources. *BALTICA* 34 (1), 17-26.
16. Eva Raudonytė-Svirbutavičienė, Rimutė Stakėnienė, **Keštutis Jokšas**, Ieva Matulaitienė, Lina Mikoliūnaitė, Aleksej Žarkov, Aivaras Kareiva, 2021. On the microplastic pollution in the sandy beaches of Šventoji, Lithuania. *BALTICA* 34 (1), 47-57.

17. Živilė Jurgelėnė, Danguolė Montvydienė, Sergej Šemčuk, Milda Stankevičiūtė, Gintarė Sauliūtė, Janina Pažusienė, Augustas Morkvėnas, Renata Butrimienė, **Kęstutis Jokšas**, Vidas Pakštas, Nijolė Kazlauskienė, Vitalijus Karabanovas. „The impact of co-treatment with graphene oxide and metal mixture on *Salmo trutta* at early development stages: The sorption capacity and potential toxicity“. June 2022. *Science of The Total Environment* 838(Pt 4):156525. DOI:10.1016/j.scitotenv.2022.156525.
18. Kazlauskas, M., Jurgelėnė, Ž., Šemčuk, S., **Jokšas, K.**, Kazlauskienė, N., Montvydienė, D.. „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* (2022), doi: <https://doi.org/10.1016/j.chemosphere.2022.137221>.
19. Lujanienė, G.; Novikau, R.;Joel, E.F.; Karalevičiūtė, K.;Šemčuk, S.; Mažeika, K.;Talaikis, M.; Pakštas, V.;Tumėnas, S.; Mažeika, J. and **Jokšas K.** Preparation of GrapheneOxide-Maghemite-ChitosanComposites for the Adsorption of Europium Ions from AqueousSolutions. *Molecules* 2022, 27, 8035.<https://doi.org/10.3390/molecules27228035>.

### **Monographs – textbooks:**

1. Arūnas Galkus, **Kęstutis Jokšas**. Sedimentary material in the transitional aquasystem. Vilnius, 1997. 198 p. ISBN 9986-9097-7-5.
2. **Kęstutis Jokšas**, Arūnas Galkus, Rimutė Stakėnienė. The Only Lithuanian Seaport and its Environment, Vilnius, 2003, 314 p. ISBN 9955-555-02-5.
3. Mokomoji knyga. Gadeikis S., Klizas P., Mokrik R., **Jokšas K.** Geoengineering field research methods. Vilnius University. 2012. 237 p. ISBN 978-609-459-087-0. (CD).

## **PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS**

---

- |             |   |
|-------------|---|
| 2017 – 2021 | project manager. "Assessment of the geocological state of natural environmental ecosystems and development forecast, in the context of sedimentation, physical-chemical erosion of sediments and anthropogenic pollution processes". The customer is the Nature Research Center. Institute of Geology and Geography. Lithuania. |
| 2019 – 2020 | project manager. "Environmental monitoring of Klaipėda State Seaport in 2019-2020". Client - Klaipėda State Seaport Authority. Lithuania.   |
| 2021 – 2025 | project manager. "Perform the monitoring of the environmental impact of the Būtingė Terminal (offshore and coastal areas) in accordance with Būtingė Terminal environmental monitoring program for 2021- 2025,„. The customer Public Company ORLEN Lietuva.   |
| 2022 – 2026 | project manager. Geoenvironmental Research Laboratory, "Investigations of entry, dispersion and accumulation of priority environmentally hazardous substances in terrestrial and marine ecosystems". The customer is the Nature Research Center. Institute of Geology and Geography. Lithuania.                                 |

## **PARTICIPATION IN SCIENTIFIC CONFERENCES**

---

### **International scientific conferences:**

1. G. Lujanienė, P.P. Povinec, H.-C. Li, **K. Jokšas**, J. Mažeika, N. Remeikaitė-Nikienė, V. Malejevas, G. Garnaga-Budrė, L. Levinskaitė, S. Šemčuk, I. Kulakauskaitė, R. Barisevičiūtė, D. Bugailiškytė, A. Stankevičius. 2018. Application of radioactive and stable

- isotopes to trace organic matter in the Baltic Sea. 18th Radiochemical Conference. Booklet of Abstracts. Mariánské Lázně, Czech Republic. 13-18 May 2018. P.207-208.
2. Galina Lujanienė; Audrius Kačergius; Algirdas Stankevičius; P.P. Povinec; H.-C. Li; Jonas Mažeika; Ričardas Paškauskas; Nijolė Remeikaitė-Nikienė; Galina Garnaga-Budrė; Loreta Levinskaitė; **Kęstutis Jokšas**; Dovilė Bugailiškytė; Sergej Šemčuk. 2018. Differential utilization of carbon isotopes by *Pseudomonas putida*. *Eleventh international conference on methods and applications of radioanalytical chemistry (MARC XI): April 8 -13, 2018, Kailua-Kona, Hawaii, USA*: book of abstracts, p. 106. T2
  3. Galina Lujanienė; Ieva Kulakauskaitė; Rūta Barisevičiūtė; Dovilė Bugailiškytė; Algirdas Stankevičius; P.P. Povinec; H.-C. Li; **Kęstutis Jokšas**; Jonas Mažeika; Nijolė Remeikaitė-Nikienė; Vitalijus Malejevas; Galina Garnaga-Budrė; Loreta Levinskaitė; Sergej Šemčuk. 2018. Carbon isotopes as tracers of organic carbon in Baltic Sea sediments. *Eleventh international conference on methods and applications of radioanalytical chemistry (MARC XI): April 8 -13, 2018, Kailua-Kona, Hawaii, USA*: book of abstracts, p. 105.

#### ***National scientific conferences:***

1. R. Stakėnienė, **K. Jokšas**, E. Raudonytė-Svirbutavičienė. Polycyclic aromatic hydrocarbons in the bottom sediments of the Nemunas delta. 12th National Marine Science and Technology Conference MARINE AND COASTAL RESEARCH 2019, Klaipėda. P. 182-185.
2. Jonas Žvirgždas, Algimantas Paškevičius, Loreta Levinskaitė, **Kęstutis Jokšas**. 2022. Yeast prevalence and biodiversity in the coastal area of the Būtinge oil terminal in the Baltic Sea. - Conference "BIOATEITIS: PERSPECTIVES OF NATURE AND LIFE SCIENCES", 2022 November 24. Lithuanian Academy of Sciences

### **PARTICIPATION IN THE STUDY PROCESS**

#### ***Participation in doctoral committees and commissions:***

1. Member of the Doctoral Committee of the Joint Geological Science Direction (N005). Vilnius University, Nature Research Center, Klaipėda University.
2. Chairman of the Doctoral Committee of the Physical Geography Science Center of the Nature Research Center.

#### ***Participation in dissertation defence councils:***

1. Marija Tamkevičiūtė - dissertation in 2018. "Impacts of Hydrometeorological conditions in Raised Bogs on Radial Steam Dynamics in Scots Pine (*Pinus sylvestris* L.)". **Chairman of the Defense Council**. Biomedical Sciences. Ecology and environmental studies (03B).
2. Neringa Gastevičienė - dissertation in 2022. "Late Glacial and Early Holocene Climate Dynamics in the Southeastern Baltic Region Based on Chironomidae data". **Chairman of the Defense Council**. Natural Sciences. Geology (N005).
3. Vytautas Samalavičius - dissertation 2022. "The Groundwater Isotope-Geochemistry Anomalies Formation Features in the Baltic Artesian Basin". **Chairman of the Defense Council**. Natural Sciences. Geology (N005).

**Subjects taught:**

1. Vilnius University. Hydrogeochemistry - Study program: Hydrogeology and engineering geology, 3rd year - bachelors, 6 credits, 72 contact hours.
2. Vilnius University. Environmental protection of the Baltic Sea basin - Study program: Hydrogeology and engineering geology, 2nd year - masters, 4 credits, 64 contact hours.
3. Vilnius University. Special laboratory hydrogeochemical research - Study program: Hydrogeology and engineering geology, 2nd year - masters, 5 credits, 64 contact hours.

**OTHERS**

---

1. "BALTICA" journal. Member of the Scientific Program Committee.  
<http://www.gamtostyrimai.lt/en/publications/listingCategory/category.1020>
2. Lithuanian Academy of Sciences. Member of the Commission on Geoenvironmental Problems.  
<http://www.lma.lt/struktura-3>. Information and recommendations are provided on feeding the beaches of the Baltic Sea with sand from the sea.
3. HELCOM CORESET Hazardous Materials Working Group. Expert from Lithuania. Since 2011 up to now.  
[https://portal.helcom.fi/Archive/Shared Documents/CORESET-TARGREV JAB 4-2011\\_3-2 MSFD experts.pdf](https://portal.helcom.fi/Archive/Shared Documents/CORESET-TARGREV JAB 4-2011_3-2 MSFD experts.pdf)  
[https://portal.helcom.fi/Archive/Shared%20Documents/CORESET-TARGREV%20JAB%206-2012\\_5-1%20MSFD%20technical%20experts.pdf](https://portal.helcom.fi/Archive/Shared%20Documents/CORESET-TARGREV%20JAB%206-2012_5-1%20MSFD%20technical%20experts.pdf)  
[https://portal.helcom.fi/meetings/HOD%2054-2018-535/MeetingDocuments/4-16%20State%20of%20the%20Baltic%20Sea%20report\\_draft.pdf#search=CORESET%20Jok%C5%A1as%20K%C4%99stutis](https://portal.helcom.fi/meetings/HOD%2054-2018-535/MeetingDocuments/4-16%20State%20of%20the%20Baltic%20Sea%20report_draft.pdf#search=CORESET%20Jok%C5%A1as%20K%C4%99stutis)
4. Membership in organizations: member of the Lithuanian Association of Geologists, member of the Lithuanian Society of Hydrobiologists, member of the Lithuanian Society of Geographers, member of the international association Baltic Eco, member of the Lithuanian Society of Metalloecologists, member of the international organizations European Marine Interdisciplinary Network (EMIN) and European Union of Coastal Conservation (EUCC) .