



INTERNATIONAL ASSOCIATION FOR DANUBE RESEARCH

Scientific Report 2025

Recent Research Activities

In 2025, the research issues in the IAD network continued to advance freshwater science across the Danube Basin, combining fundamental (45%) and applied research (50%) with innovative tools and approaches. IAD studies span multiple, interconnected areas that together enhance understanding of riverine ecosystems and support sustainable management, which finally relates to publications about Policy & Governance (5%).

A major focus of our research is **ecosystem structure, biodiversity, and connectivity**, examining how hydrological, geomorphological, and habitat links shape the river-floodplain communities. By integrating novel methods, such as *UAV photogrammetry*, IAD research network focussed on ecological patterns with underlying processes, providing actionable insights for **conservation** and **restoration** in the Danube River Basin.

Fish, their **ecology** and **biological interactions**, including studies on **invasive alien species** (IAS), remained central in view of Danube River biota in year 2025. This research focus documents distributional shifts, first records of non-native species, and population-level mechanisms such as reproductive traits and climate impacts, highlighting IAS as a critical conservation concern.

Water quality and microbial dynamics are another two interlinked core components of expertise in IAD research network. Investigations into **contaminants**, **microplastics**, and **microbial turnover** complement basin-wide research initiatives like the Joint Danube Survey 5 (JDS5), supporting comprehensive assessments of ecosystem health and Human Health Related Water Microbiology.

IAD work 2025 also addresses **climate driving environmental change**, exploring how warming, tidal variation, and hydrological fluctuations influence ecological structure and function. Complementing these studies, **methodological innovation, and digital tools**—including software (R), statistical frameworks, and automated data processing - enhance monitoring, assessment, and modelling capabilities. All in all, these are about 100 research articles, and 50 contributions to scientific conference, which are listed below in Annex 2 and 3.

Key findings emerging from the 2025 published work include:

- Maintaining ecosystem integrity and connectivity is essential for sustaining *biodiversity* and *ecological function*.
- Invasive species and biodiversity changes *require ongoing monitoring and management*.
- Water quality research is *critical for both ecosystem and human health*.
- Climate and environmental drivers increasingly shape freshwater responses, *fostering integrated analyses*.
- Digital tools and methodological advances are foundational to *modern freshwater science*.

These research activities in 2025, taken as a whole, illustrate a continuation of IAD's commitment to understanding and safeguarding the Danube Basin's freshwater ecosystems, bridging basic science, applied research, and innovative methodologies.

Key Events and other Activities

The IAD research activities in the Danube River Basin continued further with active involvement in project implementation, monitoring, teaching and student training, dialogue with policy-makers and stakeholders, and environmental education. The Danube book under IAD coordination, entitled “Danube River and Western Black Sea Coast: Complex Transboundary Management” was published in July 2025. The implementation of the three Horizon Europe projects in which IAD is a partner successfully started in January and September 2025. The 45th IAD conference was held in Sofia, Bulgaria between 9-12 April 2025. Since autumn, the preparation of the 46th IAD conference in Baja, Hungary, planned between 10-14 August 2026, was launched. In addition, the preparation of two celebration events, the 50th anniversary of the establishment of the Austrian Committee of IAD, planned for June 2026 in Vienna and 70th anniversary of the IAD foundation, planned on the occasion of the IAD conference in Baja, Hungary have also started in 2025. More information is available on the IAD homepage – www.danube-iad.eu.

• Science – Policy interactions

IAD continued to provide scientific support to national water authorities, the International Commission for the Protection of the Danube Region (ICPDR) and the EU Strategy for the Danube Region (EUSDR). In particular, IAD members contributed to several ICPDR Expert Groups on topics such as: River Basin Management, Pressures and Measures, Biodiversity Conservation, Monitoring and Assessment, Hydromorphology, Microbiology, Invasive Alien Species (IAS) and Sturgeon conservation. In addition, IAD contributed to the Joint Danube Survey 5 (JDS5) of the ICPDR, by coordinating several investigations of biological quality elements (macrozoobenthos and fish, including sturgeons), eDNA analyses and supported the investigations of the invasive alien species. IAD continued to contribute to the implementation of the EU Strategy for the Danube Region through the Danube Sturgeon Task Force (DSTF), the Danube network for Invasive Alien Species (DIAS), and the Danube: Landscapes Task Force.

Several experts and working groups participated in the harmonisation of national water and nature policy with the EU requirements or in the development of European standard methods for biological and ecological monitoring and water quality assessment. Despite the extremely difficult conditions, Ukrainian IAD members also took part in the JDS5, sampling algae, zooplankton, benthic invertebrates and fish for further analyses of eDNA, microplastics, PAHs, and heavy metals content in the tissues of aquatic organisms from the Ukrainian section of the Danube River.

• Project implementation

In 2025, the IAD experts continued their active involvement in numerous research projects funded by the European Commission, Horizon 2020, Horizon Europe, the INTERREG Danube Transnational Program, as well as in other projects supported by the national authorities and European funding programs.

These projects contribute to advance knowledge in fields such as assessment of the ecological status of water bodies based on different biological quality elements, exploring hydrological dynamics in water courses, creating a water balance model for the DRB, exploring innovative solutions for restoring the sediment balance in the DRB, restoration of aquatic ecosystems to increase resilience to climate change, ecosystem-based governance, microbial pollution, bioaccumulation of heavy metals in different fish species, health risk assessment of toxins, possibility to use harmful invasive alien species as food resource, monitoring the ecological status of the aquatic ecosystems, investigating climate change impact on aquatic biodiversity, investigating the presence and uptake of microplastics in biota, supporting habitat restoration for migratory fish species, long-term changes occurred at ecosystem level under the current anthropogenic challenges, etc.

The most important projects carried out in 2025 with the support of IAD experts are presented in Annex 1.

• Editorial activities and scientific journals

As in the previous years, IAD members contributed to awareness-raising activities on environmental problems in the Danube Region and dissemination of scientific information to experts, policymakers and the general public. Two new issues of the IAD Bulletin, Danube News were published in 2025 (DN 51 and DN 52) and are available for download on the IAD website. The Transylvanian Review of Systematical and Ecological Research, supported by IAD, continued its series “The Wetlands Biodiversity”. Several IAD members were involved as Guest Editors in Special Issues or Scientific Journals, e.g. Water - Special Issue „Freshwater Ecosystems—Biodiversity and Protection”; Plants – Special Issue „Phytoplankton Community Structure and Succession“ or Climate – Special Issue - „Modelling for the Influences of Climate and Landscape Processes on Hydrology”.

Numerous books, book chapters and scientific articles emerging from the projects and research activities carried out in the Danube Basin were published in 2025, a selection of the most relevant titles being presented in Annex 2.

Education activities

Many IAD members are involved in environmental education activities, such as lectures for undergraduates, coordination of PhD programs and master theses in the affiliated universities and creating public outreach materials (see Annex 2). A particular focus is placed on doctoral programs ensuring a transdisciplinary approach to current environmental challenges, An International Summer School was organised between 7-11 July 2025 in Osijek and Kopački rit Nature Park in the frame of CEEPUS network EcoManAqua (*Ecology and Management of aquatic ecosystems in Central, East and Southeast Europe*), focused on biodiversity of riverine wetlands and sustainable management and protection of Danube floodplains.

As part of the citizen science activities, bioblitz surveys on invasive alien species (IAS) in Croatia, Bulgaria, and Romania were conducted in May - June in the frame of Alien CSI BioBlitz initiative, organised at the European level (<https://www.inaturalist.org/projects/alien-csi-bioblitz-2025>). In addition, in Bulgaria and Romania, the ‘Invasive Alien Species in Europe’ app, developed by the EC Joint Research Centre (<https://easin.jrc.ec.europa.eu/ias>) was also used. After validation, these app data will be stored directly in EASIN – European Alien Species Information Network, which supports the implementation of the EU Regulation 1143/2014 on invasive alien species, and will complement the data recorded during the Joint Danube Survey 5 (JDS5). In Serbia, IAD members participated actively in the panel discussion organised by the Academy of Sciences with the topic “Citizen science for promotion and popularisation of the fauna of Serbia” (Belgrade, 18 Nov. 2025).

Other activities

Different scientific events were organised or attended by IAD members in 2025 to exchange knowledge and disseminate project results to stakeholders, such as the 45th IAD Conference, the Annual Assembly of the European Geosciences Union, the Health Related Water Microbiology Conference, the Croatian Botanical Symposium, the 6th Croatian Symposium on Invasive Species, Joint ESENIAS and DIAS Scientific Conference and 14th ESENIAS Workshop ‘Invasive alien species in a changing climate: challenges for ecosystem resilience’, etc. A detailed list of these events and the presentations held is provided in Annex 3.

Projects

- Aquatic invasive alien species – risk assessment and management, impact on trophic structure and ecosystem functioning, integrated management related to restoration and sustainability of aquatic ecosystems
- Biodiversity Knowledge Agora: Developing the Science Service for European Research and Biodiversity Policy-making (BioAgora)
- Biological Control of Dreissenid Mussels: Use of novel Eurasian parasites to control North American dreissenid populations
- Biological diversity and ecological status of the Danube River and adjacent wetlands, optimal use of their ecosystem functions and services, sustainable development and achieving good ecological status
- Black Sea Initiative for Sturgeon Sustainability (BLISS)
- Cross-sectoral Framework for Socio-Economic Resilience to Climate Change and Extreme Events in Europe (CROSSEU)
- DANUBIUS-RO-2 – Support for the Development and Consolidation of DANUBIUS-RO
- Demining, restoration and protection of forest and forestland in protected and Natura 2000 sites in Danube-Drava regions (NATURAVITA)
- Development and Implementation of Field Protocol for eDNA sampling of Danube Crested Newt (*Triturus dobrogicus*)
- Floodplain restoration and the effects on aquatic ecology and self-purification processes
- Functioning of vertebrate metacommunities in dynamic riverine landscapes: an innovative approach using eDNA metabarcoding (RIMECO)
- Global measure of biodiversity by understanding biogeochemical cycling of environmental DNA in lakes (LeDNA)
- H2020 COST: Applications for zoospore parasites in aquatic systems – ParAqua
- H2020 MARine COastal BiODiversity Long-term Observations (MarcoBolo)
- H2020 Modelling RESTORation of wEtlands for Carbon pathways, Climate Change mitigation and adaptation, ecosystem services, and biodiversity, Co-benefits (Restore4C)
- H2020 Science for evidence-based and sustainable decisions about natural capital (SELINA).
- H2020: Securing biodiversity, functional integrity and ecosystem services in DRYing rivER networks (DRYVER)
- HORIZON EUROPE - Danube Sediment Restoration: towards deployment and upscaling of sustainable sediment management across the Danube River Basin (DANSER)
- HORIZON EUROPE - ECOsystem-based governance with DANube lighthouse Living Lab for sustainable Innovation processes (EcoDaLLi)
- HORIZON EUROPE – Innovative sediment management in the Danube River Basin (INNOSED)
- HORIZON EUROPE - Nature-based smart water grids for integrated water and drought management
- HORIZON EUROPE - Restoration of the Danube River Basin waters for ecosystems and people from mountains to coast (DANUBE4all)
- HORIZON EUROPE - Restoration of Wetland Complexes as Life Supporting Systems in the Danube Basin (Restore4Life)
- HORIZON EUROPE - Safeguarding Migratory Fish and their Habitats in the Danube River Basin and beyond (DANUBE LIFELINES)
- HORIZON EUROPE - Sustainable Water Management and Integrated Management of Fish Migration and Habitats in the Danube River Basin and the North-Western Black Sea (SWIM)
- Industrialization of the Danube as a dynamic socio-natural site: river morphology, floodplain use and long-term legacies, 1780-1940 (IDAN).
- Initiating bottom-up management solutions to reduce plastic waste in the Danube Basin – Aquatic Plastic (AQPLA)

- Integrated research and sustainable solutions to protect and restore Lower Danube Basin and coastal Black Sea ecosystems (RESPONSE)
- Interreg Danube Region - Danube Sediment Q2
- Interreg Danube Region – Danube Water Balance
- Interreg Danube Region – Development of a harmonized water balance modeling system for the Danube River Basin (Danube Water Balance)
- Interreg Danube Region - Establishing, testing and launching a transboundary system for Monitoring Sturgeons, to manage and safeguard migratory fish in the Danube River Basin (MONSTUR)
- Interreg Danube Region - Innovative Water Retention for Climate Change Mitigation, Sustainable Agriculture and Flood Protection
- Interreg Danube Region - Tethys
- Life-history traits, ecology and invasiveness of North American ictalurid catfishes in European water bodies
- Linking climate warming to increasing invertebrate species richness in running waters: from historical data to experiments
- Microphytes in sediments of the floodplain lakes – the influence on cyanobacterial plankton
- Microplastics in surface waters - identification, quantification and pathway analysis
- Monitoring of the distribution of invasive alien species of Union concern in Bulgaria
- Monitoring the State of Aquatic Ecosystems in the Influence Zone, Restoration, and Operation of the DWF Danube-Black Sea (by Hydrobiological Indicators)
- Phagotrophic protists in periphyton of protected freshwater ecosystems in the East Croatia
- Phytoplankton biodiversity and dynamic in the floodplain of Kopački rit – long-term changes
- Potential threats to environmental and economic sustainability in the Danube and Black Sea region: Danube River as invasive alien species corridor
- Providing data for the assessment of ecological status of the Bulgarian sector of the Danube River in 2025 (JDS5)
- Providing data from hydrobiological monitoring of surface waters and sampling of biota for 2024–2025 in accordance with the Order of the Minister of Environment and Water in Bulgaria
- **RIVAR**
- Technical and Scientific Support in Relation to the Implementation of Regulation 1143/2014 on Invasive Alien Species

Scientific publications

Books

Bloesch, J., Cyffka, B., Hein, T., Sandu, C., Sommerwerk, N., 2025. *The Danube River and the Western Black Sea Coast: Complex Transboundary Management*. Elsevier.

Ciceoi R., Bădulescu L., Stănică F., Butcaru A. C., Venat O. C. A., Trichkova T., Kalcheva H., Tomov R., Vladimirov V., Uludağ A. (Eds.) 2025. Joint ESENIAS and DIAS Scientific Conference and 14th ESENIAS Workshop ‘Invasive alien species in a changing climate: challenges for ecosystem resilience’, 30 September – 3 October 2025, Bucharest, Romania. Book of Abstracts

Hegediš, A., Jaćimović, M., Smederevac-Lalić, M., Višnjić-Jeftić, Ž., Skorić, S., Cvijanović, G., Nikolić, D. 2025. *Manual for identifying fishes of Serbia*. University of Belgrade Institute for Multidisciplinary Research, 226pp.

Pöppel, R.E., Parsons, A., Keesstra, S. (eds.), 2025. *Connectivity in Geomorphology*. Cambridge University Press

Scalera R., Venter T., Brundu G., Rabitsch W., Robertson P., Solarz W., Tricarico E., Trichkova T., van Valkenburg J., 2025. *Guidance on establishing surveillance systems for invasive alien species of Union concern in terrestrial and freshwater environments*. Technical note by IUCN for the European Commission, 303 pp.

Trichkova T., Kalcheva H., Tyufekchieva V., Teubner K. (eds.), 2025. 45th IAD Conference ‘Innovative solutions and cooperation to protect and restore biodiversity and ecosystems in the Danube River Basin’, 9–12 April 2025, Sofia, Bulgaria. Book of Abstracts,

Book chapters

Abonyi, A., Borza, P., Egri, Á., Stankovic, I., Hein, T., Meulenbroek, P., 2025. *The Danube River*. In G. L. Demolin-Leite (Ed.), *Aquatic biomes: Global biome conservation and global warming impacts on ecology and biodiversity*, Academic Press. p. 19–37.

Bloesch, J., Cyffka, B., Hein, T., Sandu, C., Sommerwerk, N., 2025. *Introduction: Theory and practice—Science meets management*. In: *The Danube River and The Western Black Sea Coast*, Elsevier. p. 1-9.

Haidvogel G, Schmid M, Winiwarter V., 2025. *A long-term socioecological perspective on sustainable development as coevolution in the Danube River Basin*. In: Bloesch et al.(eds): *The Danube River and The Western Black Sea Coast*, Elsevier. p. 293.

Hein, T., Bloesch, J., Cyffka, B., Sandu, C., Sommerwerk, N. , 2025. *Toward a sustainability approach for the socioecological system of the Danube River Basin and the Western Black Sea region*. In: Bloesch et al.(eds): *The Danube River and The Western Black Sea Coast*, Elsevier. p. 365-372.

Mihaljević, M., Dejeu, C., Carpa, R., Arno, M., 2025. *Law and politics: Protected areas in the Danube River Basin – Implementation matters*. In: Bloesch et al.(eds): *The Danube River and The Western Black Sea Coast*, Elsevier. p.253-270.

Sandu, C., Mihailescu, S., Makarenko, I., Kocsis-Kupper, Z., 2025. *Transnational management of water bodies in the Danube and Black Sea region*. In: Bloesch et al.(eds): *The Danube River and The Western Black Sea Coast*, Elsevier. p. 223-251

Sandu, C., Wolter, C., Pöppel, R., Hein, T., Sommerwerk, N., Cyffka, B., Bloesch, J., 2025. *The sediments of the Danube River*. In: Bloesch et al.(eds): *The Danube River and The Western Black Sea Coast*, Elsevier. p. 41-53.

Trichkova T., Csanyi B., Skolka M., Kvach Y., Ivanova P., Kalcheva H., Paunović M. 2025. *Invasive Alien Species (IAS) in the Danube River Basin and Western Black Sea Coast*. In: Bloesch J. et al, (Eds.) *The Danube River and The Western Black Sea Coast: Complex Transboundary Management*. Book Series “Ecohydrology from catchment to coast”. Elsevier, pp. 165-193.

Scientific articles

Afanasyev S., Gupalo O., Lietytska O., Kovalenko Y., Bănăduc D., 2025. *First record of Carassius gibelio (Bloch, 1782) in the upper reaches of the Tergi River (Greater Caucasus): distribution and morphological characteristics in new high-altitude conditions*, *BioInvasions Records* Q3, 14(4): 907-927.

- Aleksić, J., Glamočlija, N., Laudanović, M., Ivanović, S., Milijašević, M., Baltić, B., Starčević, M., 2025. The content and associated health risk assessment of toxic elements, micro-, and macro-minerals in common carp, Wels catfish, and silver carp from the Danube River in Serbia. *Environmental Geochemistry and Health* 47: 60.
- Alieva A., Bănăduc D., Bakhshalizadeh S., Nasibulina B., Kurochkina T., Popov N., Linnik A., Kuanysheva G., Jussupbekova N., Barbol B., Ali A., 2025. Freshwater and Brackish Pre and Post-reproductive Biological and Ecological Characteristics of the Sander lucioperca, *Journal of the Hellenic Veterinary Medical Society* Q4, 76 (1), 8917-8928.
- Augustyniak M., Preiszner B., Kobak J., Czeglédi I., Kakareko T., Erős T., Cuthbert R. N., Jermacz Ł., 2025. Global warming affects foraging efficiency of fish by influencing mutual interference. *Journal of Animal Ecology*. 94:837-847.
- Basooma, A., Borgwardt, F., Domisch, S., Buurman, M., Bremerich, V., Brizuela, S. S. R., Tschikof, M., Hein, T., Schmidt-Kloiber, A., 2025.. Introducing fwtraits—an R package for obtaining freshwater biodiversity trait information. *Basic and Applied Ecology*, 89, 81-91.
- Basooma, A., Schmidt-Kloiber, A., Domisch, S., Torres-Cambas, Y., Smederevac-Lalić, M., Bremerich, V., Meulenbroek, P., Tschikof, M., Funk, A., Hein, T., Borgwardt, F., 2025. 'specleanr': an R package for automated flagging of environmental outliers in ecological data for modeling workflows. *Ecography*, 2025(12), e08221.
- Bănăduc, D., Curtean- Bănăduc, A., McCall, G., Hany, A., Afanasyev, S., Lefrancois, P., et al., 2025. Fish habitat and environmental effects of tidal variation in the lower Rhône River, Rhône River Delta, and Mediterranean Sea under eustatic climate change scenario, *Transylvanian Review of Systematical and Ecological Research*, volume 27.3, The Wetlands Diversity, p. 65-98.
- Bănăduc D., Mărginean M., Dobre A., Mihuț C., Iacob A., Bakhshalizadeh S., Curtean-Bănăduc A., 2025. Nera River (Danube Watershed) fish fauna dynamic over one century, *Transylvanian Review of Systematical and Ecological Research*, volume 27.2, 61-84.
- Błońska D., Janic B., Tarkan A. S., Piria M., Bănăduc D., Švolikova K. S., Števove B., Lappalainen J., 2025. Pyrzanowski K. Reproductive traits of the invasive round goby (*Neogobius melanostomus*) along a latitudinal span in Europe, *Environmental Biology of Fishes* Q2.
- Borza, P., 2025. Identification Key to the Epigeal Aquatic and Semiterrestrial Peracarids (Crustacea: Peracarida) of Hungary. HUN-REN Centre for Ecological Research.
- Bujor, M.P., Radu, E., Pacesila, I., Nita, D., Postolache, C., 2025. Microplastic pollution in coupled nature – society systems: synthesis of impact and co-management strategies. *Management Research and Practice*, 17(3): 64-83.
- Chalmandrier L., Cunillera-Montcuísi D., López-Rojo N., Canedo-Argüelles M., Csabai Z., Soria M., Foulquier A., Jabot F., Milisa M., Mykrä H., Pařil P., et al., 2025. Natural Disturbances and Connectivity Drive Seasonal Taxonomic and Trait Patterns of Aquatic Macroinvertebrate Communities Across Europe. *Global Ecology and Biogeography* 34: e70047.
- Cianfaglione, K., Bănăduc D., Bottacci, A., Rîșnoveanu, G., 2025. Natural and anthropogenic stressors in aquatic ecosystems, in *Earth Systems and Environmental Sciences*.
- Cvijanović, D., Novković, M., Milošević, Đ., Stojković-Piperac, M., Galambos, L., Čerba, D., ... Radulović, S., 2025. Conservation and ecological screening of small water bodies in temperate riverine wetlands using UAV Photogrammetry (Middle Danube). *Nature Conservation*, 58, 61-82.
- Czeglédi, I., Takács, P., Feng, K., Erős, T., 2025. Non-native species affect the long-term dynamics of native stream fish assemblages. *Oikos*, 2025: e11222.
- Demeter, K., Savio, D., Kirschner, A.K., Reischer, G.H., Kolarevic, S., Parajka, J., Derx, J., Jakwerth, S., Wurzbacher, C., Blaschke, A.P., Mach, R.L., 2025. Bacterial diversity turnover estimates in a continental river system. *bioRxiv*, pp.2025-04.
- Dinu, I., Grăcia, V., García-León, M., Lin-Ye, J., Stănică, A., Sánchez-Arcilla, A., 2025. Feasibility of artificial reefs as coastal protection measures at the Danube Delta coast, Romania. *Frontiers in Environmental Science*, 13, p.1568364.
- Domnariu, H., Trippe, K.M., Botez, F., Partal, E. and Postolache, C., 2025. Long-term impact of tillage on microbial communities of an Eastern European Chernozem. *Scientific Reports*, 15(1), p.642.
- Dorić, V., Pozojević, I., Čerba, D., Koh, M., Vučković, N., Mihaljević, Z., 2025. From ecoregions to specific habitat conditions: Unveiling unexpected insights into beta diversity through chironomid communities. *Aquatic Ecology*, 59, 1369–1383.

- Drobotă, S.A., Mihut, C., Curtean-Banaduc, A., Banaduc, S., 2025. Analysis of the interaction between microplastics and POPs in freshwater environments – an experimental study under laboratory conditions, *Transylvanian Review of Systematical and Ecological Research*, volume 27.3, The Wetlands Diversity, p. 13-34
- Drugea, R.I., Siteavu, M.I., Pitoiu, E., Delcaru, C., Sârbu, E.M., Postolache, C., Băraîtăreanu, S., 2025. Prevalence and Antibiotic Resistance of *Escherichia coli* Isolated from Raw Cow's Milk. *Microorganisms*, 13(1):209.
- Dwivedi, D., Poepl, R.E., Wohl, E., 2025. Hydrological connectivity: a review and emerging strategies for integrating measurement, modeling, and management. *Frontiers in Water*, 7, p.1496199.
- Dwivedi, D., Pöpl, R.E. and Wohl, E., 2025. Investigating connectivity to advance the predictive understanding of watershed processes and the Earth's critical zone. *Frontiers in Water*, 7, p.1589792.
- Eder, M., Habersack, H., Preiml, M., Perosa, F., Scheuer, S., Gelhaus, M., Cyffka, B., Kiss, T., et al., 2025. Floodplains along the Danube River evaluated with the Floodplain Evaluation Matrix (FEM) determining their importance for flood protection, ecology, and socio-economics. *Natural Hazards* 121: 623–660.
- Egri, Á., Jásdi, M., Kriska, G., 2025. Spectral sensitivity and temporal resolution of the sexually dimorphic compound eyes of *Electrogena lateralis*. *Scientific Reports*, 15: 29465.
- Ergović, V., Koh, M., Vučković, N., Rumišek, M., Čerba, D., Vlaičević, B. Mihaljević, Z., 2025. Spatio-Temporal Distribution of *Limnomysis benedeni* Czerniavsky, 1882 and Other Invaders in the Danube Floodplain Kopački Rit Nature Park, Croatia. *Diversity*, 17 (9): 630-648.
- Erős, T., Czeglédi, I., Szolnoki, A., Mozsár, A., Pont, D., Preiszner, B., Takács, P., Valentini, A., Specziár, A., 2025. Integrating habitat based eDNA metabarcoding and conventional surveys to characterize the lake-wide structure of fish assemblages. *Ecological Indicators*, 176: 113651.
- Escobar-Camacho D., Crabot J., Stubbington R., England J.,**Pařil P.**, Rosero-López D., Datry T., 2025. River Drying Causes Local Losses and Regional Gains in Aquatic Invertebrate Metacommunity Diversity: A Cross-Continental Comparison. *Global Change Biology* 31: e70068.
- Feng, K., Czeglédi, I., Funk, A., Hein, T., Pont, D., Meulenbroek, P., Valentini, A., Erős, T., 2025. Drivers of Metacommunity Dynamics in River-Floodplain Fish: A Path Modeling Approach. *Ecological Monographs* 95(3): e70036.
- Feng, K., Wang, Q., Tao, K., Zhang, Y., Wang, Y., Yuan, J., Li, Z., Hugueny, B., Erős, T., 2025. Ecological threshold responses of fish communities to lake eutrophication. *Journal of Environmental Management*, 384: 125599.
- Feng, K., Wang, Q., Tao, K., Zhang, Y., Yuan, J., Li, Z., Erős, T., Hugueny, B., 2025. Environmental versus biotic filtering: what if species traits contribute to both? *Oikos*, 2025: e11438.
- Feng, K., Du, X., Tao, K., Zhang, Y., Wang, Y., Yuan, J., Erős, T., Wang, Q., Hugueny, B., 2025. A unified model explaining the unimodal relationship between productivity and species richness in fish communities. *Ecology Letters* 28: e70256.
- Ferrarin, C., Bellafiore, D., Paladio Hernandez, A., Dinu, I., Stanica, A., 2025. Modelling river-sea continuum: the case of the Danube Delta. *Ocean Science*, 21(6), pp.3291-3310.
- Galir, A., Dubravka, S. M., Filip, S., Žuna Pfeiffer, T., Prašnikar, F., Bek, N., Penava, E., Križevac, P., 2025. Effects of Azithromycin on the Functioning of the Food Web in Freshwater Plankton. *Journal of Xenobiotics*, 15, 145: 1-14.
- Galir, A., Dubravka, S. M., Filip, S., Žuna Pfeiffer, T., Matea, D., Tena, M., 2025. Microplastics and the freshwater plankton: effects on grazing and mortality. *Journal of Hazardous Materials*, 488, 137497-0.
- Galir, A., Filip, S., Čmelar, K., Špoljarić M., Dubravka, S., Žuna Pfeiffer, T., Bek, N., 2025. A Decade of Change in the Floodplain Lake: Does Zooplankton Yield or Resist? *Water*, 17, 2638; 1-16.
- Haidvogel, G., Hohensinner, S., Schmid, M., 2025. Disturbance on the Upper Danube: A long-term socio-ecological perspective on floods. In: Dorondel S, Gatejel, L. (eds). *Flowing Progress: Transforming the Danube Through Infrastructure*. Purdue University Press, p. 267.
- Hárságyi D., Berta B.J., Boóz B., Pap Z., Perneckner B., Szloboda A., Miliša M., **Pařil P.**, **Csabai Z.**, Móra A., 2025. Occurrence data for stream-dwelling macroinvertebrates from Central Europe. *Data in Brief* 58: 111272.
- Hárságyi D., Cunillera-Montcusí D., Ficsór M., Bonada N., Datry T., Kunne A., Miliša M., Mimeau L., **Pařil P.**, Perneckner B., Boda P., Móra A., **Csabai Z.**, 2025. Connectivity-driven assembly of Trichoptera metacommunities across river networks with different drying patterns.. *Freshwater Biology* 70: e70053.
- Hountchame C. A. I., Montcho S. A., Agadjihouede H., Bănăduc D., 2025. The temporal dynamics of the impact of overfishing on the resilience of the *Sarotherodon melanocheilus* (Rüppel, 1858) fish species' population in the West African Lake Toho, *Fishes* Q1?, 10, 357, 1-22.

- Howden, N. J. K., Rode, M., Romero, E., Thieu, V., Worrall, F., Zhang, Q., Benito, X., 2025. Oligotrend, a global database of multi-decadal Chlorophyll a and water quality time series for rivers, lakes, and estuaries. *Earth System Science Data*, 17(7), 3411–3430.
- Iftime, A., Oțel, V., 2025. An annotated systematic checklist of the Romanian ichthyofauna. *Zootaxa*, 5654(1), pp.1-64.
- Ionescu, M. S., Constantinescu, A. M., Gherghe, A., Panin, A., Scrieciu, A., Rotaru, S., et al., 2025. Shoreline Dynamics of the Danube Delta (2016–2023) Measured Using GNSS-RTK Technology. *Geo-Eco-Marina* 31: 5-27.
- Ivković, M., Fajdetić, J., Ergović, V., 2025. *Ibisia marginata* (Fabricius, 1781) (Diptera, Athericidae): Distribution and Perennial Emergence Patterns in Croatia. *Insects*, 16(8), 816.
- Jaćimović, M., Stanković, M., Trbović, D., Nikolić, D., Smederevac-Lalić, M., Marković, Z., 2025. Can We Turn Harmful Invasive Non-Native Fish Species into a Valuable Food Resource? *Fishes*, 10(5), p.207.
- Kardos, M.K., Patziger, M., Jolánkai, Z., Clement, A., 2025. The new urban wastewater treatment directive from the perspective of the receiving rivers' quality. *Environmental Science Europe* 37, 10.
- Minaudo, C., Abonyi, A., Alcaraz, C., Diamond, J., Howden, N.J., Rode, M., Romero, E., Thieu, V., Worrall, F. and Zhang, Q., 2025. Oligotrend, towards a global database of multi-decadal chlorophyll-a and water quality timeseries for rivers, lakes and estuaries. *Earth System Science Data Discussions*, 2025, pp.1-28.
- Kirschner, A.K., Leopold, M., Kolm, C., Vierheilig, J., Linke, R.B., Schachner-Gröhs, I., Koller, M., Kittinger, C., Zarfel, G., Farnleitner, A.H., 2025. Erste umfassende quantitative Erhebung von Antibiotikaresistenzen in vier niederösterreichischen Flüssen. *Österreichische Wasser-und Abfallwirtschaft*, 77(9), pp.486-504.
- Kowal, J. L., Haidvogel, G., Funk, A., Schützenhofer, J., Branco, P., Ferreira, M. T., ..., Hein, T., 2025. Over 100 years of longitudinal connectivity changes from the perspective of a migratory fish species. *Ecological Indicators*, 175, 113436.
- Kutsarov Y, Ivanova P, Dzhebekova N, Raykov V, Hineva E, Valkova E, Yakimov K., 2025. First record for an alien oriental river prawn *Macrobrachium nipponense* (De Haan, 1849) (Decapoda, Palaemonidae) distribution in the lower Danube, Bulgarian part confirmed with DNA barcoding. *Nature Conservation* 58: 153–163.
- Leopold M, Kolm C, Linke RB, Schachner-Groehs I, Koller M, Kandler W, Kittinger C, Zarfel G, Farnleitner AH, Kirschner AKT, 2025: Using a harmonised study design and quantitative toolbox reveals major inconsistencies when investigating the main drivers of water and biofilm antibiotic resistomes in different rivers. *Journal of Hazardous Materials* 488: 137343
- Lopes-Lima, M., Aldridge, D. C., Álvarez, M. G., Araujo, R., Barea-Azcón, J. M.,..., Trichkova, T., et al., 2025. A curated dataset on the distribution of West Palaearctic freshwater bivalves. *Scientific Data*, 12, 1139.
- McLaughlin, J., Cruz, L., Postolache, C., Shank, M., Bijou, P., Fadigan, K., 2025. Mentored undergraduate research in global contexts: outcomes of a collaborative Euro-US program focused on water-related sustainability issues confronting the Danube delta. *Discover Education*, 4(1):70.
- Mimeau L., Künne A., Devers A., Branger F., Kralisch S., Lauvernet C., Vidal J.-P., Bonada N., **Csabai Z.**, Mykrá H., **Pařil P.**, Polović L., Datry T., 2025. Projections of streamflow intermittence under climate change in European drying river networks. *Hydrology and Earth System Sciences* 29: 1615-1636.
- Ochieng, B., Chen, M., Abonyi, A., Bai, S., Cui, Y., Liu, J., Zhang, P., Hu, J., Zhou, S., Wang, J., 2025. Functional and Taxonomic Diversity is Associated With Resource Use Efficiency in Epilithic Algae of Subtropical Qinhuai River, China. *Freshwater Biology* 70: e70029.
- Pavlek, K., Pöppel, R.E., Galia, T., Gasparovic, M., 2025. Rapid geomorphic adjustment to anthropogenic vegetation removal and meander cut-offs: Evidence from a lowland meandering river. *Science of the Total Environment*, 999, 180323
- Pelz, D., Friedrich, T., Zeiringer, B., Hein, T., Unfer, G., 2025. Reproductive ecology of three rheophilic fish species in the Austrian Danube River system: Insights into the spawning of *Chondrostoma nasus*, *Barbus barbus*, and *Vimba vimba*, and the larval development of *C. nasus* in the River Traisen. *Limnologia*, 112, 126250
- Preisznner, B., Bánó, B., Czeglédi, I., Erős, T., Kakareko, T., Kobak, J., Takács, P., Augustyniak, M., 2025. Behavioural responses of the European mudminnow to competition and predation in a habitat invaded by Amur sleeper. In: J. Wanzenböck, M. Šmejkal, L. Kalous, C. Smith (eds.) *The Fish of Muddy Waters Conference*, Paper: e182071.
- Recinos Brizuela, S., Funk, A., Graf, W., Basooma, A., Hein, T., 2025. Responses of Oligochaeta and Chironomidae to restoration of connectivity in a river–floodplain stretch of the Upper Danube River. *Restoration Ecology*, e70238.

- Shi, Y., Brizuela, S. S. R., Hein, T., Funk, A., Kimmich, C., 2025. The dynamics of linked social–ecological action situations reveal governance changes in the Austrian Danube. *Journal of Environmental Management*, 395, 127662.
- Sinclair J.S., Stubbington R., Welti E.A.R., Aroviita J., Baker N.J.,... Pařil P., et al., 2025. Current protected areas provide limited benefits for European river biodiversity. *Nature Communications* 16: 11146.
- řindler, M., Kubala, M., Senko, D., Miřik, M., Guti, G., Pekárik, L., Drozd, B., 2025. Implications of climate-change-induced stressors and water management for sterlet populations in the Middle and Upper River Danube. *River Research and Applications*, 41: 448–465.
- Smederevac-Lalić, M., Paraschiv, M., Cvijanović, G., Havn, T.B., Hont, S., Lenhardt, M., Iani, M., Lennox, R.J., Nikolić, D., Okland, F., Paterson, R.A., Thorstad, E.B., 2025. Preliminary insights into fish movements beyond the massive Iron Gate dams on the Danube River using acoustic telemetry. *Journal of Fish Biology* 1-11.
- Stanković, E., Krpo-Ćetlović, J., Račković, B., Poleksić, V., Tasić, A., Skorić, S., Nikolić, D., 2025. Comparison of potentially toxic (PTEs) and organochlorine pesticides (OCPs) levels in *Rutilus rutilus* (Linnaeus, 1758) sampled from different reservoirs in terms of human health risk due to consumption. *Environmental Geochemistry and Health* 47: 420.
- Starčević, M., Katanić, N., Laudanovič, M., Jovanović, D., Tasić, A., Baltić, B., Gčamočlija, N., 2025. Metal bioaccumulation in fish species from the Danube River in Serbia and evaluation of possible health risks. *Meat Technology* 53-63.
- Steinbacher SD, Priselac K, Kandler W, Savio D, Vierheilig J, Mayer R, Demeter K, Linke RB, Mach RL, Sommer R, Lindner G, Zuser K, Kolm C, Stevenson ME, Blaschke AP, Kirschner AKT, Leifels M., Farnleitner AH, 2025. Seasonally recurring patterns of dominating *Crenothrix* spp. in a Central European alluvial drinking water well: significance and potential indicator role. *Water Research* 279: 123406
- Steinbacher, S.D., Priselac, K., Kandler, W., Savio, D., Vierheilig, J., Mayer, R., Demeter, K., Linke, R.B., Mach, R.L., Sommer, R., Lindner, G., 2025. Seasonally recurring patterns of dominant *Crenothrix* spp. in a European alluvial drinking water well: Significance and potential indicator role. *Water Research*, 279, p.123406.
- Stević, F., Mihaljević, M., řpoljarić Maronic, D., řuna Pfeiffer, T., Zahirović, V., 2025. Morphological Variability of a Natural Population of *Cyanobacterium Raphidiopsis raciborskii* in a Temperate Floodplain Lake. *Taxonomy*, 5(2): 16-31.
- Stević, F., Mihaljević, M., řpoljarić Maronić, D., řuna Pfeiffer, T., Zahirović, V., 2025. The Decreased Incidence of *Raphidiopsis raciborskii* Bloom in a Temperate Floodplain Lake in the Middle Danube Affected by Extreme Hydrological Events. *Water*, 17 (3): 309-323.
- Sunjog, K., Subotić, S., Kostić, J., Jasnić, N., Vuković-Gačić, B., Lenhardt, M., Višnjjić-Jeftić, ř. 2025. Biomarker-based assessment of four native fish species in the Danube River under untreated wastewater exposure. *Fishes* 10 (9): 445.
- Takács, P., Bánó, B., Czeglédi, I., Pallos, R., Erős, T., Weiperth, A., 2025. Alien fishes in Hungary: the rise of aquarium species. *Biol Invasions* 27, 166.
- Teubner K., Weinbauer M., 2025. When clear water lies: Filamentous algae overgrow macrophytes. *Danube News*, 52(27): 2-8.
- Tikász, G., Gyalai-Korpos, M., Fleit, G., Baranya, S., 2025. Real-Time Detection of Macroplastic Pollution in Inland Waters: Development of a Lightweight Image Recognition System. *Frontiers in Environmental Science* 13: 1666271.
- Vitál Z, Czeglédi I, Megyeri E, Preiszner B, Takács P, Erős T, Sallai M, Boross N., 2025. Effect of the tapeworm *Ligula pavlovskii* on the life-history of the alien monkey goby (*Neogobius fluviatilis*). *NeoBiota* 99: 131-147.
- Weigelhofer, G., Feldbacher, E., Rosenberger, C., Srđević, Z., Mikuska, A., řerba, D., et al., 2025. Potential and limits of Citizen Science in assessing ecosystem services of European wetlands. In EGU General Assembly Conference Abstracts (pp. EGU25-2828).
- Yuryshynets V. I., Starosyla Ye. V., Liashenko A. V., Zorina-Sakharova K. Ye., Yakushyn V. M., 2025. Bacterioplankton of the River Sections of the Kilia Danube Delta. *Hydrobiological Journal*. 61 (3): 91-109.
- Zorina-Sakharova K, Liashenko V., 2025. Records of epifauna of freshwater invertebrates from the Danube Delta region during 2007-2012. Ukrainian Nature Conservation Group (NGO). Sampling event dataset.
- Zorina-Sakharova K. Ye., Hoshka K. I., Liashenko A. V., Liashenko V. A., 2025. Population Structure of the Eastern Prawn, *Macrobrachium nipponense* (Crustacea, Decapoda, Palaemonidae), in the First Years of its Introduction into the Kiliya Delta of the Danube. *Zoodyversity*. 59 (3): 217-230.

Education and outreach materials

Costea, G., Dinu, V., Adamescu, C. M., Pusch, M., 2025. People and aquatic ecosystems-Exploring nature-based solutions and restoration measures in floodplains. Teaching materials. In Horizon Europe Project Restore4Life. Zenodo.

Costea, G., Pusch, M., 2025. Exploring the habitat of a stream. Teaching materials. In Horizon Europe Project Restore4Life, Zenodo.

Gheorghiu, C., Costea, G., 2025. Floodplain living environment - A dynamic world. Teaching materials. In Horizon Europe Project Restore4Life. Zenodo.

Grabić, J., Srđević, Z., Costea, G., 2025. Self-purification of wetlands (Version 1). Zenodo.

Iordan, I., Costea, G., Smărândache, A. 2025. Lau laughs again. A story from the Danube. Verlag Regionalkultur, 64 pages, ISBN: 978-3-95505-528-8, English version

Conferences, workshops, events, presentations

- 30 Jan-2 Feb. 2025. 12th JEEP International Scientific Agribusiness Conference MAK2025, Kopaonik, Serbia
- 9-12 Apr. 2025. 45th IAD Conference, Sofia, Bulgaria
- 27 Apr.-2 May 2025. Annual Assembly of the European Geosciences Union, Vienna, Austria
- 16-20 June 2025. Health Related Water Microbiology Conference, Amersfoort, Netherlands
- 3-6 Sept. 2025. 8th Croatian Botanical Symposium *with international participation. Osijek, Croatia.*
- 17-18 Sept. 2025. 15th International scientific and Professional Conference „With food to Health“, Osijek, Croatia.
- 25-26 Sept. 2025. 14th International Symposium “Kopački rit – past, present, future”, Osijek, Croatia.
- 30 Sept – 3 Oct 2025. Joint ESENIAS and DIAS Scientific Conference 2025 and 14th ESENIAS Workshop ‘Invasive alien species in a changing climate: challenges for ecosystem resilience’, Bucharest, Romania
- 7 Oct 2025. Connecting the dots for migratory fishes. Joint meeting EUSDR PA4 with EUSDR PA6 DSTF, Budapest, Hungary
- 8 Oct 2025. Protecting the environment (Pillar B) Joint Steering Group Meeting of the EUSDR Priority Areas PA4, PA5 and PA6, Budapest, Hungary
- 24-25 Nov 2025 6th Croatian Symposium on Invasive Species, Zagreb, Croatia

Presentations

- Andelković, A., Novković, M, Cvijanović, D, Marisavljević, D., Šikuljak, D., Radulović, S., 2025. The twin threats of climate change and plant invasions in Serbia. 12. JEEP International Scientific Agribusiness Conference MAK 2025, 30 Jan – 2 Feb, Kopaonik, Serbia.
- Beshkova, M., Kalcheva, H., Kazakov, S., Isheva, T., 2025. Long-term phytoplankton dynamics and trophic relations in the presence of invasive *Dreissena* spp. in Ogosta Reservoir (Danube River Basin). The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria
- Bondarenko, O., Kvach, Y., 2025. Occurrence of *Laonome xeprovala* and *Marenzelleria neglecta* in the Danube–Black Sea deep-water shipping canal at the Bystre Mouth (Danube River, Ukraine). Joint ESENIAS and DIAS Scientific Conference 2025 and 14th ESENIAS wks Invasive alien species in a changing climate: challenges for ecosystem resilience. 30 Sept – 3 Oct. 2025, Bucharest, Romania
- Costea, G., 2025. Fostering emotional connection and learning: The role of education in Danube Basin restoration. Keynote talk, 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria.
- Deli, O., Kvach, Y., 2025. The spread of the non-native marbled cellar spider *Holocnemus plucheii* Scopoli, 1763 (Pholcidae) in southwestern Ukraine. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria
- Derx, J. Steinbacher, S., Valent, P., ..., Kirschner, AKT, ..., Farnleitner, A.H., 2025. Understanding the impact of human wastewater emissions on the microbiological water safety along the Danube under future change. Health Related Water Microbiology Conference, 16-20 June, Amersfoort, Netherlands
- Derx, J., Valent, P., Steinbacher, S., ...Kirschner, A.K.T.,...Farnleitner, A.H., 2025. Assessing the Impact of Human Wastewater Emissions on Microbiological Water Safety Along the Danube in the Context of Future Change. Annual Assembly of the European Geosciences Union, 27 Apr. – 2 May, Vienna, Austria
- Dubyna, D., Dziuba, T., Iemeljanova, I., Ustymenko, P., Borsukevych, P., Tymoshenko, P., 2025. The Kiliyan arm of the Danube Delta as a transit ecosystem of new alien species to the territory of Ukraine. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria
- Hatzenbühler, D., Weißl, M., Hain, K., Baumgartner, C., Hubmer, A., Lang, A., Pöpl, R.E., Wagreich, M., 2025. DANube SEdiment Restoration (DANSER): From Floodplains to Fallout: Anthropocene stratigraphic signals in Danube floodplain archives downstream Vienna. EGU General Assembly 27 Apr – 2 May 2025, Vienna, Austria.
- Hnilička, M., Jurajda, P., Tkachenko, M., Janáč, M., Jurajdová, Z., Nikova, P., Trichkova, T., 2025. Black bullhead (*Ameiurus melas*) in Czech Republic – new threat for aquatic ecosystems, distribution and potential management. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria

- Hupalo O., Zorina-Sakharova K., Liashenko A. Ecological structure of juvenile fish communities in the Kilia Delta of the Danube River as an indicator of environmental quality. 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria.
- Kaludova, T., Stefanova, K., Petkov, I., Slabakova, V., Panayotov, V., 2025. ROV-based visual survey of alien ctenophores in the Black Sea. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria
- Kanev, E., Uzunova, E., Todorov, M., Ignatov, K., Trichkova, T., 2025. River connectivity issues and restoration activities: Upper Iskar River case study. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria
- Kenderov, L., Trichkova, T., Botev, I., 2025. New data on the mysid fauna in the Bulgarian sector of the Danube River. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria
- Kirschner, A., Schachner-Groehs, I., Kavka, G., Hoedl, E., Kovacs, A., Farnleitner, A., 2025. Long-term impact of basin-wide wastewater management on microbial faecal pollution levels along the entire Danube River. In The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria
- Kirschner, A., Schachner-Groehs, I., Linke, R.B., Kolm, C., Farnleitner, A.H., 2025. MST and ARG patterns along the Danube River. Health Related Water Microbiology Conference, 16-20 June, Amersfoort, Netherlands
- Kirschner, AKT, Schachner-Groehs, I., Koller, M.,..., Farnleitner, A.H., 2025. Occurrence and Key Drivers of Antibiotic Resistance Genes along 2300 km of the Danube River. Health Related Water Microbiology Conference, 16-20 June, Amersfoort, Netherlands
- Kirschner, AKT, Schachner-Groehs, I., Koller, M.,..., Zarfel, G., Farnleitner, A.H., 2025. Occurrence and Key Drivers of Antibiotic Resistance Genes along 2300 km of the Danube River. Health Related Water Microbiology Conference, 16-20 June, Amersfoort, Netherlands
- Kirschner, AKT, Schachner-Groehs, I., Linke, RB, Kolm, C., Farnleitner, A.H., 2025. Microbial source tracking and antibiotic resistance gene patterns along the Danube River. Health Related Water Microbiology Conference, 16-20 June, Amersfoort, Netherlands
- Kolm, C., Schachner-Groehs, I., Kirschner, AKT, Farnleitner, A.H., 2025. Closing gaps in AMR detection: A novel hybrid capture sequencing platform for comprehensive quantification of resistance markers in water and wastewater. Health Related Water Microbiology Conference, 16-20 June, Amersfoort, Netherlands
- Kostić, J., Sunjog, K., Đorđević Aleksić, J., Subotić, S., Smederevac-Lalić, M., Višnjić Jeftić, Ž., 2025. Exploring the effects of untreated wastewater on metal concentrations and DNA damage in common bream *Abramis brama* (L, 1758) in the Danube River, Serbia. In The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria
- Kvach, Y., Lupu, G., 2025. The invasive alien species monitoring in the Danube Delta: Collaborative work of Romania and Ukraine. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria
- Lauermann, M., Heckmann, T., Eichel, J., Pöpl, R.E., Egger, G., Betz, F., 2025. Assessing the importance of channel-floodplain connectivity for the resilience of floodplain ecosystem trajectories. EGU General Assembly 27 Apr – 2 May 2025, Vienna, Austria.
- Lepekha, A., Bushuiev, S., Kvach, Y., 2025. Seasonal variations in egg size of the Oriental river prawn, *Macrobrachium nipponense*, an invasive decapode in the Danube Delta. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria
- Markus G Weinbauer, 2025. Viruses and flagellates: competitors for bacteria prey? 32nd Deltas & Wetlands International Symposium, DDNI, May 12-17 2025, Tulcea, Romania.
- Mihăilescu, S., Gheorghe, I.F., Strat, D., 2025. Dinamic of invasive alien species (*Amorpha fruticosa*, *Acer negundo*) in Natura 2000 sites from the Lower Danube River and Danube Delta. Joint ESENIAS and DIAS Scientific Conference 2025 and 14th ESENIAS wks Invasive alien species in a changing climate: challenges for ecosystem resilience. 30 Sept – 3 Oct. 2025, Bucharest, Romania
- Nikolić, D., Cvijanović, G., Smederevac-Lalić, M., Jaćimović, M., 2025. Determination of the suitability of different methodologies for the mass removal of two invasive fish species, black bullhead (*Ameiurus melas*) and pumpkinseed (*Lepomis gibbosus*). Joint ESENIAS and DIAS Scientific Conference 2025 and 14th ESENIAS wks Invasive alien species in a changing climate: challenges for ecosystem resilience. 30 Sept – 3 Oct. 2025, Bucharest, Romania
- Nikolić, D., Skorić, S., Tasić, A., Smederevac-Lalić, M., Raskovic, B., 2025. Fish as bioindicators of reservoir pollution. In The 3rd Conference of the International Association for Biomonitoring of Environmental Pollution, IABEP2025 (p. 78). Institute of Physics Belgrade, Pregrevica 118, 11080 Belgrade, Serbia.
- Nikova, P., Todorov, M., Hnilička, M., Jurajda, P., Trichkova, T., 2025. Pathways of introduction and spread of the black bullhead *Ameiurus melas* (Rafinesque, 1820) (Ictaluridae) in Bulgaria. Joint ESENIAS and DIAS Scientific Conference 2025 and 14th ESENIAS wks Invasive alien species in a changing climate: challenges for ecosystem resilience. 30 Sept – 3 Oct. 2025, Bucharest, Romania
- Nikova, P.K., Koshev, Y., 2025. Species distribution modelling of the coypu in Bulgaria: Preliminary result. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria
- Pöpl, R.E., Wagreich, M., Hein, T., Lang, A., Hohensinner, S., Hatzenbühler, D., Kowal, J., Recinos, S., Schwarz, U., Sandberger, J., Schneeweis, S., Klasz, G., 2025. DANube SEdiment Restoration (DANSER): Towards

deployment and upscaling of sustainable sediment management across the Danube River basin (The Upper Danube case). EGU General Assembly 27 Apr – 2 May 2025, Vienna, Austria.

Pöpl, R.E., Wagreeich, M., Hein, T., Lang, A., Hohensinner, S., Hatzenbühler, D., Kowal, J., Recinos, S., Schwarz, U., Sandberger, J., Schneeweis, S., Klasz, G., 2025. The DANube SEDiment Restoration (DANSER) project: The Upper Danube case. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria

Roudbar, S., Young, R., Pöpl, R.E., Le Heron, D., Wagreeich, M., 2025. A transboundary case of investigating longitudinal water and sediment connectivity using microplastics in the Thayatal/Podyji National Park. EGU General Assembly 27 Apr – 2 May 2025, Vienna, Austria.

Smederevac-Lalić, M., Jaćimović, M., Cvijanović, G., Nikolić, D., 2025. Trends in Commercial and Recreational Fisheries in Serbia (2008–2023): Implications for Ecosystem-Based Management. In The 45th IAD Conference. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria

Smederevac-Lalić, M., Meulenbroek, P., Tschikof, M., Jaćimović, M., Cvijanović, G., Nikolić, D., Hein, T., 2025. An expert survey on Danube fish–current status and the way forward. In Book of Abstracts 14th International Symposium KOPAČKI RIT/past, present, future/2025 (Vol. 14, pp. 278-281), Kopačevo, Bilje.

Smederevac-Lalić, M., Tschikof, M., Meulenbroek, P., Torres-Cambas, Y., Jähnig, S., Trichkova, T., Basooma, A., Hein, T., 2025. DANUBE4all–Ecological status and biodiversity deficit analysis of the Danube River course. In The 45th IAD, 9-12 April 2025, Sofia, Bulgaria

Steinbacher SD,...Blaschke AP, Kirschner AKT, Leifels M., Farnleitner AH, 2025. Crenothrix polyspora, the "Brunnenfaden": Once feared, now nearly forgotten - A rediscovery through a systematic and multiparametric field study. Health Related Water Microbiology Conference, 16-20 June, Amersfoort, Netherlands

Steinbacher, S.D., Ameen, A., Demeter, K., Lun, D., ...Blaschke, AP., Kirschner, AKT, Farnleitner, A.H., 2025. A novel field approach for the evaluation of the impact of inland navigation on the faecal pollution of rivers. Health Related Water Microbiology Conference, 16-20 June, Amersfoort, Netherlands

Teubner, K., 2025. UN Mega Deltas Programme: Climate Change Adaptation and Enhancing Ecosystems Services for a Resilient Future (roundtable). 32nd Deltas & Wetlands International Symposium, DDNI, May 12-17 2025, Tulcea, Romania.

Teubner, K., Balaican, D. 2025. Empowering Future Environmental Leaders: Short- and Long-Term Benefits of the IAD Summer School. 32nd Deltas & Wetlands International Symposium, DDNI, May 12-17 2025, Tulcea, Romania.

Tkachenko, M., Bartáková, V., Drápalová, M., Seifertová, M., Hnilička, M., Borchering, J., Trichkova, T., Stefanov, T., Ondračková, M., 2025. Parasites of *Knipowitschia cf. caucasica* (Gobiidae) in its native and non-native range. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria

Tkachenko, M., Vetešník, L., Hronek, J., Janáč, M., Ondračková, M., 2025. Host preferences and distribution of *Neoergasilus japonicus* (Ergasilidae), a highly invasive parasitic copepod. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria

Todorov, M., Trichkova, T., Hubenov, Z., Botev, I., 2025. Range expansion and current distribution of the invasive alien Chinese pond mussel *Sinanodonta woodiana* (Lea, 1834) (Bivalvia: Unionidae) in Bulgaria. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria

Tomov, R., 2025. Alien terrestrial invertebrates in the Danube River Basin: A reality check on their spread and the risk of new invasions. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria

Trichkova T., Nikova P., Ivanova P., Dzhebekova N., Todorov M., Kazakov S., Stefanov T., 2025. First record of Jaguar cichlid *Parachromis managuensis* (Günther, 1867) (Actinopterygii: Cichlidae) from the Danube River, Bulgaria: Pathways of introduction and spread. 6th Croatian Symposium on Invasive Species, 24–25 Nov. 2025, Zagreb, Croatia. (poster)

Trichkova T., Todorov M., Nikova P., 2025. Invasive alien species in the Bulgarian sector of the Danube River: Preliminary results of the Joint Danube Survey 5. 6th Croatian Symposium on Invasive Species, 24–25 Nov. 2025, Zagreb, Croatia. (oral)

Trichkova, T., 2025. Invasive alien species in a changing climate: Awareness raising and management challenges; ESENIAS and DIAS activities. Joint ESENIAS and DIAS Scientific Conference 2025 and 14th ESENIAS wks Invasive alien species in a changing climate: challenges for ecosystem resilience. 30 Sept – 3 Oct. 2025, Bucharest, Romania

Trichkova, T., Nikova, P., Todorov, M., Lopes-Lima, M., 2025. Recording mussels of family Mytilidae in the Bulgarian sector of the Danube River: introduction or pollution? Joint ESENIAS and DIAS Scientific Conference 2025 and 14th ESENIAS wks Invasive alien species in a changing climate: challenges for ecosystem resilience. 30 Sept – 3 Oct. 2025, Bucharest, Romania

Trichkova, T., Nikova, P., Todorov, M., Stefanov, T., Hnilička, M., Jurajda, P., 2025. Presence and status of alien fish species of family Ictaluridae in Bulgaria. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria

Trichkova, T., Skolka, M., Ivanova, P., Csányi, B.,...et al., 2025. Invasive alien species and climate change as major threats to biodiversity in the Danube River Basin and Western Black Sea Coast: Management and restoration and the role of citizen science (keynote). The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria.

Vladimirov, V., 2025. The Danube River as a pathway for the introduction and spread of alien plants in Bulgaria. The 45th IAD Conference, 9-12 April 2025, Sofia, Bulgaria