Dr. rer. nat. Dipl.-Ing. Jörg Lewandowski

Leibniz-Institute of Freshwater Ecology and Inland Fisheries
Department 1: Ecohydrology and Biogeochemistry
Cross-cutting Research Domain II: Aquatic Fluxes under Global Change
Research Group: Groundwater-surface water interfaces
ORCID: 0000-0001-5278-129X (https://orcid.org/0000-0001-5278-129X)
Researcher ID: E-9028-2012 (https://www.webofscience.com/wos/author/rid/E-9028-2012)
Google Scholar: https://scholar.google.com/citations?user=2LtLJyUAAAAJ&hl

Brief Curriculum Vitae

2015	Habilitation HU Berlin
Since 2006	Senior scientist, IGB, Department 1
2005	Senior scientist, University of Hohenheim
2002-2005	PostDoc, IGB, Biogeochemistry group Chemical Lab
1998-2002	PhD, IGB, Biogeochemistry group Chemical Lab
1997-1998	Junior scientist, TU Dresden
1996-1997	Internship, U. S. Geological Survey
1996-1997	Author text book soil chemistry, Springer press
1994-1995	Diploma thesis on contaminants in soil, TU Berlin
1993-1994	Studies in Environmental Sciences, ETH Zürich
1992-1995	Teaching assistant, TU Berlin
1988-1997	Studies in Environmental Engineering, TU Berlin

Research Topics

- Hydrodynamic transport and biogeochemical turnover processes in hyporheic zones and floodplain aquifers (groundwater-stream interface)
- Retention and transformation of trace organic compounds in hyporheic zones
- Hydrodynamic transport and biogeochemical turnover processes at aquifer-lake interfaces (lacustrine groundwater discharge)
- Impacts of bioturbation on hydrodynamic transport and biogeochemical turnover processes in lake sediments and on adjacent compartments
- Phosphorus retention in limnetic sediments, early diagenetic processes and phosphorus turnover in lake ecosystems
- Lake restoration

Curriculum vitae

Name	Jörg Lewandowski
Birth date	11 May 1967
Nationality	German
Marital status	Married, two children (2008, 2010)
Contact	lewe@igb-berlin.de, +49 30 64181 668

1. Professional experience

2012 – today	Lecturer at Geography Department, Humboldt University Berlin
01/2006-today	Senior scientist and group leader IGB, Department 1: Ecohydrology and Biogeochemistry, Cross-cutting research domain 2: Aquatic Fluxes under Global Change, Research group leader Groundwater-Surface Water Interfaces: Coupling of Hydrodynamic and Biogeochemical Processes
04/2005-12/2005	Senior scientist University of Hohenheim, Institute of Plant Nutrition: Research and teaching in soil chemistry
04/2002-03/2005	PostDoc IGB, Research group Biogeochemistry: Development of a novel sampling device for pore water sampling with high spatial and temporal resolution (DBU project 17225)
10/1998-03/2002	PhD IGB, Research group Biogeochemistry: Phosphorus-retention and early diagenetic processes in limnetic sediments; development of a scientific concept for the selection of appropriate in-lake measures (BMBF project 02WT9822/4)
09/1997-09/1998	Junior scientist Technical University Dresden, Institute of Groundwater Management: Mobilization of contaminants from abandoned waste disposal sites located in brown-coal open-cast mines due to flooding
05/1996-04/1997	Internship U. S. Geological Survey, Water Resources Division: Mobility and transport of metals in a sand and gravel aquifer
01/1996-01/1997	Authoring a book about contaminants in soil, analysis and evaluation: Lewandowski, J., Leitschuh, S., Koss, V. (1997): Schadstoffe im Boden: Eine Einführung in Analytik und Bewertung. Berlin: Springer
04/1994-03/1995	Student lecturer at the Technical University Berlin: Seminar for socially and environmentally responsible behaviour: Ecological crisis and future studies workshop

2. Education

1/2015	Habilitation “Coupling of hydrodynamic and biogeochemical processes at aquatic interfaces”, Humboldt University Berlin, Geographical Institute
12/2002	PhD, Humboldt University Berlin, Institute of Biology (magna cum laude)
05/1996-04/1997	Project thesis, U. S. Geological survey (mark: 1,0)
04/1994-06/1995	Diploma thesis „A new practical course on analysis of contaminants in soil", Technical University Berlin (awarded with the Engineering Education Price 1997, mark: 1,0)
10/1993-03/1994	Studies in Environmental Sciences at the Swiss Federal University of Technology Zurich: Environmental Sciences
09/1988-04/1997	Studies in Environmental Technologies at the Technical University of Berlin: Focus on water and wastewater management, soil and

	groundwater protection, environmental chemistry, solid and hazardous waste management, environmental policy, environmental education, and environmental psychology (Dipl.-Ing., mark: excellent)
06/1986	Abitur, Pelizaeus-Gymnasium Paderborn (mark: 1,7)

3. Voluntary engagement and social competence

03/2019 – 10/2020	Member of the National Water Dialogue of the Federal Environment Ministry (BMU), working group Risk Factor Substance Inputs (2018-2020)
09/2018 – present	Member of the working group “DWA-AG GB-3.7 Methods for the characterisation of groundwater-lake systems and their interaction” of the German Association for Water, Wastewater and Waste e. V. (DWA)
10/2020 – present	Deputy head of the working group “DWA-AG GB-3.7 Methods for the characterisation of groundwater-lake systems and their interaction” of the German Association for Water, Wastewater and Waste e. V. (DWA)
11/2012 – 06/2015	Member in the working group Ecohydrology of the German Hydrological Society
04/2012 – present	Member of international subdivision committee on Ecohydrology, Wetlands and Estuaries EGU
10/2008 – present	Head investment committee, IGB
03/2008 – present	Member investment committee, IGB
05/2000 – 09/2002	PhD member ILA, IGB
10/1994 – 03/1996	Student member in review board for professorship Environmental chemistry, Technical University Berlin
10/1991 – 09/1993	Student member in a committee to develop the new study subject Soil protection and rehabilitation, Technical University Berlin
01/1991 – 05/1996	Student member education committee Environmental Engineering, Technical University Berlin

4. Member of scientific societies

American Society of Limnology and Oceanography (ASLO)

European Geosciences Union (EGU), Subdivision on Ecohydrology, Wetlands and Estuaries

American Geophysical Union (AGU)

German Limnological Society (DGL)

Nereis Park

Peer-reviewed publications

(* = early stage researcher, i. e. PhD, Master or PostDoc, supervised by Jörg Lewandowski)

101. Sobhi Gollo*, Vahid; Broecker, Tabea; Marx, Christian; Lewandowski, Jörg; Nützmann, Gunnar and Hinkelmann, Reinhard. Comparison of integral and coupled approaches for modeling hydraulic exchange across a rippled streambed. International Journal on Geomathematics (accepted).
100. Höhne, Anja*; Müller, Birgit Maria*; Schulz, Hanna*; Dara, Rebwar; Posselt, Malte; Lewandowski, Jörg and McCallum James L. (2022). Fate of trace organic compounds in the hyporheic zone: Influence of microbial metabolism. Water research (accepted).
99. Fuchs, Andrea; Casper, Peter and Lewandowski, Jörg (2022). Dynamics of greenhouse gases (CH_4 and CO_2) in meromictic Lake Burgsee, Germany. *Journal of Geophysical Research: Biogeosciences* **127**, e2021JG006661. DOI: 10.1029/2021JG006661
98. Sobhi Gollo, Vahid*; Broecker, Tabea*; Lewandowski, Jörg; Nützmann, Gunnar and Hinkelmann, Reinhard. An integral approach to simulate three-dimensional flow in and around a ventilated U-shaped chironomid dwelled burrow (2022). *Journal of Ecohydraulics* (accepted). DOI: 10.1080/24705357.2021.1938258
97. Krause, Stefan; Abbott, Benjamin; Baranow, Viktor; Bernal, Susana; Blaen, Phillip; Datry, Thibault; Drummond, Jennifer; Fleckenstein, Jan; Gomez-Velez, Jesus; Hannah, David; Knapp, Julia; Kurz, Marie; Lewandowski, Jörg; Martí, Eugènia; Mendoza-Lera, Clara; Milner, Alexander; Packman, Aaron; Gilles, Pinay; Ward, Adam and Zarnetske, Jay (2022). Organizational principles of hyporheic exchange flow and biogeochemical cycling across scales. *Water Resources Research* **58**, e2021WR029771. DOI: 10.1029/2021WR029771
96. Mueller, Birgit Maria;* Schulz, Hanna*; Höhne, Anja*; Putschew, Anke and Lewandowski, Jörg (2022). Seasonal differences in the attenuation of polar trace organics in the hyporheic zone of an urban stream. *Water Resources Research* **58**, e2021WR031272. DOI: 10.1029/2021WR031272
95. Schaper, Jonas L.*; Zarfl, Christiane; Meinikmann, Karin*; Banks, Eddie W.; Baron, Sandra; Cirpka, Olaf A. and Lewandowski, Jörg (2022). Spatial variability of radon production rates in an alluvial aquifer affects travel time estimates of groundwater originating from a losing stream. *Water Resources Research* **58**, e2021WR030635. DOI: 10.1029/2021WR030635
94. Höhne, Anja*; Lewandowski, Jörg; Schaper, Jonas L. and McCallum, James L. (2021): Determining hyporheic removal rates of trace organic compounds using non-parametric conservative transport with multiple sorption models. *Water Research* **206**, 117750. DOI: 10.1016/j.watres.2021.117750
93. Wolke, Philipp*; Teitelbaum, Yoni; Deng, Chao; Lewandowski, Jörg and Arnon, Shai (2021): Einfluss der Migrationsgeschwindigkeit von Gewässerbettformen auf die Sauerstoffdynamik in der hyporheischen Zone (Influence of the migration rate of aquatic bedforms on oxygen dynamics in the hyporheic zone, in German). *Korrespondenz Wasserwirtschaft* **14**, 288-294.
92. Krause, Stefan; Baranov, Viktor; Nel, Holly; Drummond, Jennifer; Kukkola, Anna; Hoellein, Timothy; Sambrook Smith, Greg; Lewandowski, Joerg; Bonet, Berta; Packman, Aaron; Sadler, Jon; Allen, Steve; Allen, Deonnie; Simon, Laurent; Mermillod-Blondin, Florian and Lynch, Iseult (2021): Gathering at the top? Environmental controls of microplastic uptake and biomagnification in freshwater food webs. *Environmental Pollution* **268**, 115750. DOI: 10.1016/j.envpol.2020.115750
91. Höhne, Anja*; Mellerowicz, Karl; Lischtschenko, Oliver and Lewandowski, Jörg (2021). A novel device for in situ point measurements of fluorescent tracers in sediment pore water. *Advances in Water Resources* 148, 103827. DOI: 10.1016/j.advwatres.2020.103827
90. Müller, Birgit Maria*; Schulz, Hanna*; Danzcak, Robert; Putschew, Anke and Lewandowski, Jörg (2021). Simultaneous attenuation of trace organics and change in

organic matter composition in the hyporheic zone of urban streams. *Scientific Reports* **11**, 4179. DOI: 10.1038/s41598-021-83750-8

89. Wu, Liwen*; Gomez-Velez, Jesus D.; Krause, Stefan; Wörman, Anders; Singh, Tanu; Nützmann, Gunnar and Lewandowski, Jörg (2021). How daily groundwater table drawdown affects the diel rhythm of hyporheic exchange? *Hydrology and Earth System Sciences* **25**, 1905-1921. DOI: 10.5194/hess-25-1905-2021
88. Jaeger, Anna*; Posselt, Malte; Schaper, Jonas L.*; Betterle, Andrea; Rutere, Cyrus; Coll, Claudia; Mechelke, Jonas; Raza, Mohammad; Meinikmann, Karin; Portmann, Andrea; Blaen, Philipp J.; Horn, Marcus A.; Krause, Stefan and Lewandowski, Jörg (2021). Transformation of organic micropollutants along hyporheic flow in bedforms of river-simulating flumes. *Scientific Reports* **11**, 13034. DOI: 10.1038/s41598-021-91519-2
87. Broecker, Tabea*; Sobhi Gollo, Vahid*; Fox, Aryeh; Lewandowski, Jörg; Nützmann, Gunnar; Arnon, Shai and Hinkelmann, Reinhard (2021): High-resolution integrated transport model for studying surface water-groundwater interaction. *Groundwater* **59**, 488-502. DOI: 10.1111/gwat.13071
86. Serlet, Alyssa Jennifer; López Moreira M, Gregor A.; Zolezzi, Guido; Wharton, Geraldene; Hölker, Franz; Gurnell, Angela M.; Tockner, Klement; Bertoldi, Walter; Bruno, M. C.; Jähnig, Sonja; Lewandowski, Jörg; Monaghan, Michael T.; Rillig, Matthias C.; Rogato, Marina; Toffolon, Marco; Veresoglou, Stavros D. and Zarfl, Christiane (2020): SMART Research: Towards interdisciplinary river science in Europe. *Frontiers in Environmental Science* **8**, 63. doi: 10.3389/fenvs.2020.00063
85. Posselt, Malte; Mechelke, Jonas; Rutere, Cyrus; Coll, Claudia; Jaeger, Anna*; Raza, Muhammad; Meinikmann, Karin*; Krause, Stefan; Sobek, Anna; Lewandowski, Jörg; Horn, Marcus A.; Hollender, Juliane and Benskin, Jonathan P. (2020): Bacterial diversity controls transformation of wastewater-derived organic contaminants in river-simulating flumes. *Environmental Science & Technology* **54**, 5467-5479. doi: 10.1021/acs.est.9b06928
84. Comer-Warner, Sophie; Knapp, Julia L.A.; Blaen, Phillip; Klaar, Megan; Shelley, Felicity; Zarnetske, Jay; Lee-Cullin, Joseph; Folegot, Silvia; Kurz, Marie; Lewandowski, Jörg; Harvey, Judson; Ward, Adam; Mendoza-Lera, Clara; Ullah, Sami; Datry, Thibault; Kettridge, Nicholas; Gooddy, Daren; Drummond, Jennifer; Martí, Eugènia; Milner, Alexander; Hannah, David and Krause, Stefan and (2020): The method controls the story - sampling method impacts on the detection of pore-water nitrogen concentrations in streambeds. *Science of the Total Environment* **709**, 136075. doi: 10.1016/j.scitotenv.2019.136075
83. Wolke, Philipp*; Teitelbaum, Yoni; Deng, Chao; Lewandowski, Jörg and Arnon Shai (2020): Impact of bed form celerity on oxygen dynamics in the hyporheic zone. *Water* **12**, 62. doi: 10.3390/w12010062
82. Lewandowski, Jörg; Meinikmann, Karin* and Krause, Stefan (2020): Groundwater–Surface Water Interactions: Recent advances and interdisciplinary challenges (Editorial). *Water* **12**, 296. doi: 10.3390/w12010296
81. McCallum, James L.; Höhne, Anja; Schaper, Jonas; Shanafield, Margaret; Banks, Edward; Posselt, Malte; Batalaan, Okke and Lewandowski, Jörg (2020): A numerical stream transport modelling approach including multiple conceptualizations of hyporheic exchange and spatial variability to assess contaminant removal. *Water Resources Research* 56, e2019WR024987. doi: 10.1029/2019WR024987
80. Wu, Liwen*; Gomez-Velez, Jesus D.; Krause, Stefan; Singh, Tanu; Wörman, Anders and Lewandowski, Jörg (2020): Impact of flow alteration and temperature variability on hyporheic exchange. *Water Resources Research* **56**, e2019WR026225. doi: 10.1029/2019WR026225
79. Wells, Jacqueline R.; Goldman, Amy E.; Chu, Rosalie K.; Danczak, Robert E.; Garayburu-Caruso, Vanessa A.; Graham, Emily B.; Lewandowski, Jörg; Lin, Xinming; Meinikmann, Karin*; Morad, Joseph W.; Müller, Birgit Maria*; Ren, Huiying; Renteria,

Lupita; Resch, Charles T.; Schulz, Hanna*; Tfaily, Malak; Tolic, Nikola; Toyoda, Jason G. and Stegen, James C. (2019). WHONDRS 48 Hour Diel Cycling Study at the Erpe River, Germany. United States: N. p., Web. doi: 10.15485/1577260.

78. Galloway, Jason*; Fox, Aryeh; Lewandowski, Jörg and Arnon, Shai (2019): The effect of unsteady streamflow and stream-groundwater interactions on oxygen consumption in a sandy streambed. *Scientific reports* **9**, 19735. doi: 10.1038/s41598-019-56289-y
77. Ward, Adam S.; Wondzell, Steven M.; Schmadel, Noah M.; Herzog, Skuyler; Zarnetske, Jay P.; Baranov, Viktor*; Blaen, Phillip J.; Brekenfeld, Nicolai; Chu, Rosalie; Derelle, Romain; Drummond, Jennifer; Fleckenstein, Jan H.; Garayburu-Caruso, Vanessa; Graham, Emily; Hannah, David; Harman, Ciaran J.; Hixson, Jase; Knapp, Julia L. A.; Krause, Stefan; Kurz, Marie J.; Lewandowski, Jörg; Li, Angang; Marti, Eugenia; Miller, Melinda; Milner, Alexander M.; Neil, Kerry; Orsini, Luisa; Packman, Aaron I.; Plont, Stephen; Renteria, Lupita; Roche, Kevin; Royer, Todd; Segura, Catalina; Stegen, James; Toyoda, Jason; Wells, Jacqueline and Wisnoski, Nathan I. (2019): Spatial and temporal variation in river corridor exchange across a 5th order mountain stream network. *Hydrology and Earth System Sciences* **23**, 5199-5225. doi: 10.5194/hess-23-5199-2019
76. Singh, Tanu; Wu, Liwen*; Gomez-Velez, Jesus; Lewandowski, Jörg; Hannah, David and Krause, Stefan (2019): Dynamic Hyporheic Zones: Exploring the Role of Peak-Flow Events on Bedform-induced Hyporheic Exchange. *Water Resources Research* **55**, 218-235. doi: 10.1029/2018WR022993
75. Hupfer, Michael; Jordan, Sylvia; Herzog, Christiane; Ebeling, Christian; Ladwig, Robert; Rothe, Matthias and Lewandowski, Jörg (2019): Chironomid larvae enhance phosphorus burial in lake sediments: Insights from long and short-term experiments. *Science of the Total Environment* **663,** 254-264. doi: 10.1016/j.scitotenv.2019.01.274
74. Gaona, Jaime*; Meinikmann, Karin* and Lewandowski, Jörg (2019): Identification of groundwater exfiltration, interflow discharge and hyporheic exchange flows by fiber-optic distributed temperature sensing supported by electromagnetic induction geophysics. *Hydrological Processes*, 33, 1390-1402. doi: 10.1002/hyp.13408
73. Jäger, Anna*; Posselt, Malte; Betterle, Andrea; Schaper, Jonas*; Mechelke, Jonas; Coll, Claudia and Lewandowski, Jörg (2019): Spatial and temporal variability in attenuation of polar trace organic compounds in an urban lowland stream. *Environmental Science & Technology* **53**, 2383-2395. doi: 10.1021/acs.est.8b05488
72. Kelleher, Christa; Ward, Adam; Knapp, Julia L. A.; Blaen, Phillip J.; Kurz, Marie J.; Drummond, Jennifer D.; Zarnetske, Jay P.; Hannah, David M.; Mendoza-Lera, Clara; Schmadel, Noah M.; Datry, Thibault; Lewandowski, Jörg; Milner, Alexander M. and Krause, Stefan (2019): Exploring tracer information and model framework trade-offs to improve estimation of stream transient storage processes. *Water Resources Research* **55**, 3481-3501. doi: 10.1029/2018WR023585
71. Schaper, Jonas L.*; Posselt, Malte; Bouchez, Camille; Jäger, Anna*; Nützmann, Gunnar; Putschew, Anke; Singer, Gabriel and Lewandowski, Jörg (2019): Fate of trace organic compounds in the hyporheic zone: influence of retardation, the benthic biolayer and organic carbon. *Environmental Science & Technology* **53**, 4224-4234. doi: 10.1021/acs.est.8b06231
70. Broecker, Tabea; Teuber, Katharina; Sobhi Gollo, Vahid*; Nützmann, Gunnar; Lewandowski, Jörg and Hinkelmann, Reinhard (2019): Integral flow modelling approach for surface water-groundwater interactions along a rippled streambed. *Water* **11**, 1517. doi: 10.3390/w11071517
69. Jäger, Anna*; Coll, Claudia; Posselt, Malte; Mechelke, Jonas; Rutere, Cyrus; Betterle, Andrea; Raza, Muhammad; Mehrtens, Anne*; Meinikmann, Karin*; Portmann, Andrea; Singh, Tanu; Blaen, Phillip J.; Krause, Stefan; Horn, Marcus A.; Hollender, Juliane; Benskin, Jonathan P.; Sobek, Anna and Lewandowski, Jörg (2019): Using recirculating flumes and a response surface model to investigate the role of hyporheic exchange and bacterial diversity on micropollutant half-lives. *Environmental Science: Processes & Impacts* **29**, 2093-2108. doi: 10.1039/c9em00327d

68. Ward, Adam S.; Zarnetske, Jay P.; Baranov, Viktor*; Blaen, Phillip J.; Brekenfeld, Nicolai; Chu, Rosalie; Derelle, Romain; Drummond, Jennifer; Fleckenstein, Jan; Garayburu-Caruso, Vanessa; Graham, Emily; Hannah, David; Harman, Ciaran; Hixson, Jase; Knapp, Julia L. A.; Krause, Stefan; Kurz, Marie J.; Lewandowski, Jörg; Li, Angang; Miller, Melinda; Milner, Alexander M.; Neil, Kerry; Orsini, Luisa; Packman, Aaron I.; Plont, Stephen; Renteria, Lupita; Roche, Kevin; Royer, Todd; Schmadel, Noah M.; Segura, Catalina; Stegen, James; Toyoda, Jason; Wisnoski, Nathan I. and Wondzell, Steven M. (2019): Co-located contemporaneous mapping of morphological,hydrological, chemical, and biological conditions in a 5th-order mountain stream network, Oregon, USA. *Earth System Science Data* **11**, 1567–1581. doi: 10.5194/essd-11-1567-2019
67. Lewandowski, Jörg; Arnon, Shai; Banks, Eddie; Batelaan, Okke; Betterle, Andrea; Broecker, Tabea; Coll, Claudia; Drummond, Jennifer D.; Gaona Garcia, Jaime*; Galloway, Jason*; Gomez-Velez, Jesus; Grabowski, Robert C.; Herzog, Skuyler P.; Hinkelmann, Reinhard; Höhne, Anja*; Hollender, Juliane; Horn, Marcus A.; Jaeger, Anna*; Krause, Stefan; Löchner Prats, Adrian; Magliozzi, Chiara; Meinikmann, Karin*; Mojarrad, Brian Babak; Mueller, Birgit Maria*; Peralta-Maraver, Ignacio; Popp, Andrea L.; Posselt, Malte; Putschew, Anke; Radke, Michael; Raza, Muhammad; Riml, Joakim; Robertson, Anne; Rutere, Cyrus; Schaper, Jonas L.*; Schirmer, Mario; Schulz, Hanna*; Shanafield, Margaret; Singh, Tanu; Ward, Adam S.; Wolke, Philipp*; Wörman, Anders and Wu, Liwen (2019): Is the hyporheic zone relevant beyond the scientific community? *Water* **11**, 2230. doi: 10.3390/w11112230
66. Wu, Liwen; Singh, Tanu; Gomez-Velez, Jesus D.; Nützmann, Gunnar; Wörman, Anders; Krause, Stefan and Lewandowski, Jörg (2018): Impact of dynamically changing discharge on hyporheic exchange processes under gaining and losing groundwater conditions. *Water Resources Research* **54**, 10,076-10,093. doi: 10.1029/2018WR023185
65. Marruedo Arricibita, Amaya I.*; Lewandowski, Jörg; Krause, Stefan; Gomez-Velez, Jesus and Hannah, David M. (2018): Mesocosm experiments identifying hotspots of groundwater upwelling in a water column by fibre optic distributed temperature sensing. *Hydrological Processes* **32**, 185-199. doi:10.1002/hyp.11403
64. Pöschke, Franziska*; Nützmann, Gunnar; Engesgaard, Peter and Lewandowski, Jörg (2018): How does the groundwater influence the water balance of a lowland lake? A field study from Lake Stechlin, north-eastern Germany. *Limnologica* **68**, 17-25. doi: 10.1016/j.limno.2017.11.005
63. Banks, Eddie W.; Shanafield, Margaret A.; Noorduijn, Saskia; McCallum, James; Lewandowski, Jörg and Batelaan, Okke (2018): Active heat pulse sensing of 3D-flow fields in streambeds. *Hydrology and Earth System Sciences* **22**, 1917-1929. doi: 10.5194/hess-22-1917-2018
62. Blaen, Phillip J.; Kurz, Marie J.; Drummond, Jennifer D.; Knapp, Julia L. A.; Mendoza-Lera, Clara; Schmadel, Noah M.; Klaar, Megan J.; Jäger, Anna*; Folegot, Silvia; Lee-Cullin, Joseph; Ward, Adam S.; Zarnetske, Jay P.; Datry, Thibault; Milner, Alexander M.; Lewandowski, Jörg; Hannah, David M. & Krause, Stefan (2018): Woody debris is related to reach-scale hotspots of lowland stream ecosystem respiration under baseflow conditions. *Ecohydrology* e1952, https://doi.org/10.1002/eco.1952
61. Schaper, Jonas L.*; Seher, Wiebke*; Nützmann, Gunnar; Putschew, Anke; Jekel, Martin and Lewandowski, Jörg (2018): The fate of polar trace organic compounds in the hyporheic zone. *Water Research* **140**, 158-166. doi: 10.1016/j.watres.2018.04.040
60. Marruedo Arricibita, Amaya I.*; Dugdale, Stephen J.; Krause, Stefan; Hannah, David M. and Lewandowski, Jörg (2018): Thermal infrared imaging for the detection of relatively warm lacustrine groundwater discharge at the surface of freshwater bodies. *Journal of Hydrology* **562**, 281-289. doi: 10.1016/j.jhydrol.2018.05.004
59. Meinikmann, Karin*; Hupfer, Michael; Nützmann, Gunnar and Lewandowski, Jörg (2018): Grundwasser als Quelle für die Phosphor-Belastung des Arendsees. Stellungnahme. *Hydrologie und Wasserbewirtschaftung* **62**, 290-292.

58. Peralta-Maraver, Ignacio; Galloway, Jason*; Posselt, Malte; Arnon, Shai; Reiss, Julia; Lewandowski, Jörg and Robertson, Anne L. (2018): Environmental filtering and community delineation in the streambed ecotone. *Scientific Reports* **8**, 15871, 1-11. doi: 10.1038/s41598-018-34206-z
57. Schaper, Jonas L.*; Posselt, Malte; McCallum, James L.; Banks, Eddie W.; Höhne, Anja*; Meinikmann, Karin*; Shanafield, Margaret A.; Batelaan, Okke and Lewandowski, Jörg (2018): Hyporheic exchange controls fate of trace organic compounds in an urban stream. *Environmental Science & Technology* **52**, 12285-12294. doi: 10.1021/acs.est.8b03117
56. Périllon, Cécile; Pöschke, Franziska*; Lewandowski, Jörg; Hupfer, Michael & Hilt, Sabine (2017): Stimulation of epiphyton growth by lacustrine groundwater discharge to an oligo-mesotrophic hard-water lake. *Freshwater Science* **36**, 555-570. doi: 10.1086/692832
55. Baranov, Viktor A.*; Milošević, Djuradj; Kurz, Marie J.; Zarnetske, Jay P.; Sabater, Francesc; Marti, Eugenia; Robertson, Anne; Brandt, Tanja; Sorolla, Albert; Lewandowski, Jörg & Krause, Stefan (2017): Helophyte impacts on the response of hyporheic invertebrate communities to inundation events in intermittent streams. *Ecohydrology* **10**, e1857, doi: 10.1002/eco.1857
54. Krause, Stefan; Lewandowski, Jörg; Grimm, Nancy B.; Hannah, David M.; Pinay, Gilles; McDonald, Karlie; Marti, Eugenia; Argerich, Alba; Pfister, Laurent; Klaus, Julian; Battin, Tom; Larned, Scott T.; Schelker, Jacob; Fleckenstein, Jan; Schmidt, Christian; Rivett, Michael O.; Watts, Glenn; Sabater, Francesc; Sorolla, Albert & Turk, Valentina (2017): Ecohydrological interfaces as hotspots of ecosystem processes. *Water Resources Research* **53**, 6359-6376, doi: 10.1002/2016WR019516
53. Baranov, Viktor A.*; Lewandowski, Jörg & Krause, Stefan (2016): Bioturbation enhances the aerobic respiration of lake sediments in warming lakes. *Biology Letters* **12**, 20160448, 1–4. doi: 10.1098/rsbl.2016.0448
52. Zaramella, Mattia; Marion, Andrea; Lewandowski, Jörg & Nützmann, Gunnar (2016): Assessment of transient storage exchange and advection–dispersion mechanisms from concentration signatures along breakthrough curves. *Journal of Hydrology* **538**, 794–801. doi: 10.1016/j.jhydrol.2016.05.004
51. Baranov, Viktor A.*; Lewandowski, Jörg; Romeijn, Paul; Singer, Gabriel & Krause, Stefan (2016): Effects of bioirrigation of non-biting midges (Diptera: Chironomidae) on lake sediment respiration. *Scientific Reports* **6**, 27329, 1–10. doi: 10.1038/srep27329
50. Hupfer, Michael; Reitzel, Kasper; Kleeberg, Andreas; Lewandowski, Jörg (2016): Long-term efficiency of lake restoration by chemical phosphorus precipitation: Scenario analysis with a phosphorus balance model. *Water Research* **97**, 153–161. doi: 10.1016/j.watres.2015.06.052
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2. Laskov, Christine; Herzog, Christiane; Lewandowski, Jörg & Hupfer, Michael (2005): Miniaturisierte photometrische Methoden für die Porenwasseranalytik (Miniaturized photometric methods for pore water analysis, in German). *Kurzreferate Jahrestagung der Wasserchemischen Gesellschaft*, 147-151.
1. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2003): Untersuchungsprogramme im Vorfeld von Seenrestaurierungen (Investigations required before lake restoration measures, in German). Werder, *Erweiterte Zusammenfassung der DGL-Jahrestagung 2002*, 735-740.

Book chapters and other publications

11. Mueller, Birgit Maria*; Schulz, Hanna* and Lewandowski, Jörg (2022). Hyporheic Zone and Processes. Encyclopedia of Inland Waters (Second Edition). Volume 2, 301-311. https://doi.org/10.1016/B978-0-12-819166-8.00103-1
10. Goldhammer, Tobias; Hilt, Sabine; Hupfer, Michael; Köhler, Jan; Lewandowski, Jörg; Spahr, Stephanie and Venohr, Markus (2022). EU consultation: Nutrients – Action plan for better management. IGB Feedback, 4 S.
9. Lewandowski, Jörg; Goldhammer, Tobias; Höhne, Anja*; Kleine, Lukas*; Kronsbein, Anna Lena*; Mehner, Thomas; Müller, Birgit Maria*; Pusch, Martin; Reith, Christoph Josef; Schulz, Hanna and Spahr, Stephanie (2021): Ansiedlung von industriellen Großprojekten in wasserarmen Gebieten (Locating large-scale industrial projects in water-scarce areas, in German). wwt Wasserwirtschaft Wassertechnik, 32-39.
8. Berger, Stella; Gessner, Mark; Goldhammer, Tobias; Gonsiorczyk, Thomas; Grossart, Hans-Peter; Hilt, Sabine; Hupfer, Michael; Hussner, Andreas; Lewandowski, Jörg; Mehner, Thomas; Nejstgaard, Jens and Wollrab, Sabine (2021). Die ökologische Verschlechterung des Stechlinsees. Wissensstand und Handlungsoptionen. Berlin, Leibniz-Institut für Gewässerökologie und Binnenfischerei, IGB Dossier, 8 S. DOI: https://dx.doi.org/10.4126/FRL01-006425865
7. Hupfer, Michael; Kleeberg, Andreas and Lewandowski, Jörg (2020): Chapter 9: Internal pools and fluxes of phosphorus in dimictic Lake Arendsee, Northeastern Germany. In: Steinman, Alan D. and Spears, Bryan, M. Internal phosphorus loading in lakes : Causes, case studies, and management. Plantation, FL: J. Ross Publishing, 169-185.
6. McCallum, James; Hoehne, Anja; Schaper, Jonas; Shanafield, Margaret; Banks, Edward; Posselt, Malte; Batelaan, Okke and Lewandowski, Jörg (2019): Sturt Creek tracer test data, March 16 2017. The University of Western Australia. Sturt_tracer_test_16_03_2017(.xlsx). DOI: 10.26182/5c907068e680f

5. Venohr, Markus; Lewandowski, Jörg; Kloas, Werner; Grossart, Hans-Peter; Gessner, Mark O.; Wolter, Christian; Geßner, Jörn and Wuertz, Sven (2017): IGB Policy Brief zur Bundestagswahl 2017. Schutz und Nutzung von Binnengewässern in Deutschland. Status Quo, Konflikte und politische Handlungsoptionen (in German: IGB Policy Letter for Bundestag elections 2017. Conservation and utilization of inland waters in Germany: status quo, conflicts and political options for action). Berlin, Leibniz-Institut für Gewässerökologie und Binnenfischerei, 8S.
4. Lewandowski, Jörg and Meinikmann, Karin (2017): Lacustrine groundwater discharge. In: Frontiers of Science and Technology. Automation, Sustainability, Digital Fabrication - Selected extended Papers of the 7th Brazilian-German Conference, Campinas 2016 Brazil. Celani, Gabriela and Kanoun, Olfa (Eds.), de Gruyter, 34–47.
3. Meinikmann, Karin; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2016): Methods for the determination of groundwater-surface water interactions (in German, Methoden zur Erfassung von Grundwasser-Oberflächenwasser-Interaktionen. In: Hupfer, Michael; Calmano, Wolfgang; Fischer, Helmut & Klapper, Helmut (eds.): Handbook Applied Limnology (in German, Handbuch Angewandte Limnologie). Weinheim: Wiley-VCH, Kapitel III-1.2.2, 32. Erg. Lfg. 2/15, 39 pp.
2. Hendriks, Dimmie M. D.; Okruszko, Tomasz; Acreman, Mike; Grygoruk, Mateusz; Duel, Harm; Buijse, Tom; Schutten, Jochan; Mirosław-Świątek, Dorotea; Henriksen, Hans Jørgen; Sanchez Navarro, Rafael; Broers, Hans-Peter; Lewandowski, Jörg; Old, Gareth; Whiteman, Mark; Johns, Tim; Kaandorp, Vince; Baglioni, Marco; Holgersson, Björn & Kowalczyk, A. (2015): Bringing groundwater to the surface; Groundwater-river interaction as driver for river ecology. REFORM Policy Paper, 14 p.
1. Lewandowski, Jörg; Casper, Peter & Hupfer, Michael (2003): Small-scale horizontal heterogeneity of pore water phosphate in lakes. Berichte des IGB 17, 27-35.

Invited talks

28. Müller, Birgit Maria* and Lewandowski, Jörg (2021): Attenuation of trace organics in urban stream beds. TU München, PhD seminar, 21.06.2021, invited talk.
27. Wolke, Philipp*; Teitelbaum, Yoni; Deng, Chao; Lewandowski, Jörg and Arnon, Shai (2020): Einfluss der Migrationsgeschwindigkeit von Bettformen auf die Sauerstoffdynamik in der hyporheischen Zone (Impact of celerity of bedforms on oxygen dynamics in the hyporheic zone (in German)). Leipzig, Germany, Schwoerbel-Benndorf Young Researchers Award of the German Limnological Society (DGL), 28 Sep. 2020, invited talk.
26. Jörg Lewandowski, Jonas Schaper*, Karin Meinikmann*, Anna Jäger* (2019): Fate of trace organic compounds in urban streams and their hyporheic zones. University Tübingen, Germany, GeoEnviron Seminar, 10.05.2019, invited talk.
25. Lewandowski, Jörg (2019). Hyporheic zone processes – A TRAINing network for enhancing the understanding of complex physical, chemical and biological process interactions (HypoTRAIN). Girona, EU Cluster Event Clean Water, 22 Oct 2019, invited talk.
24. Jäger, Anna*; Coll, Claudia; Mechelke, Jonas; Rutere, Cyrus; Posselt, Malte; Raza, Muhammad; Betterle, Andrea; Mehrtens, Anne; Meinikmann, Karin*; Portmann, Andrea; Singh, Tanu; Blaen, Phil; Krause, Stefan; Horn, Marcus A.; Hollender, Juliane; Benskin, Jon; Sobek, Anna; Lewandowski Joerg (2019). What happens to micropollutants in the hyporheic zone? Findings of an interdisciplinary joint mesocosm experiment. Girona, EU Cluster Event Clean Water, 22 Oct 2019, invited talk.
23. Schaper, Jonas L.*; Posselt, Malte; Jäger, Anna*; Singer, Gabriel; Putschew, Anke; Nützmann, Gunnar; Jekel, Martin and Lewandowski, Jörg (2019): Transformation of trace organic compounds in hyporheic sediments of urban streams. Münster, DGL Jahrestagung, 23 Sep – 27 Sep 2019, invited plenary talk.

22. Lewandowski, Jörg; Meinikmann, Karin; Hupfer, Michael; Nützmann, Gunnar and Rosenberry, Donald O. (2018): Lacustrine groundwater discharge and its relevance for eutrophication. Copenhagen, Denmark, 33rd Nordic Geological Winter Meeting, 10 Jan. – 12 Jan. 2018, talk.
21. Hupfer, Michael; Kasprzak, Peter; Lewandowski, Jörg (2017): Increase of phosphorus concentrations in lakes: Is the climate change responsible? Magdeburg, UFZ-Seminar Wasser und Umwelt, 19 Jun. 2017, talk.
20. Lewandowski, Jörg; Meinikmann, Karin; Nützmann, Gunnar and Rosenberry, Donald O. (2016): Lacustrine and submarine groundwater discharge fuel eutrophication. Denver, Geological Society of America GSA, 25 Sep. – 28 Sep. 2016, invited talk.
19. Tockner, Klement & Lewandowski, Jörg (2015): Real-time hydroecology. Vienna, HydroEco, 13–16 April 2015, invited talk.
18. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska; Nützmann, Gunnar & Rosenberry, Donald O. (2015): Groundwater - the disregarded component in lake water and nutrient budgets. San Francisco, American Geophysical Union Fall Meeting (AGU), 14 Dec. – 18 Dec. 2015, invited talk.
17. Lewandowski, Jörg; Krause, Stefan & Nützmann, Gunnar (2014): Groundwater–river interactions: Hydrology, biogeochemistry and ecology. Bierbza, Reform workshop, 15 – 17 Sep 2014, invited talk.
16. Lewandowski, Jörg; Nützmann, Gunnar & Tockner, Klement (2014): Groundwater–surface water interactions: Coupling of hydrology, biogeochemistry and ecology. Basel, Tagliamento workshop, 27 Oct 2014, invited talk.
15. Lewandowski, Jörg (2013): Small Larvae, Large Impact – Impacts of macrozoobenthos on transport and turnover processes at sediment-lake interfaces. Kolloquium, Helmholtz Zentrum für Umweltforschung UFZ, 31 Jan 2013, invited talk.
14. Lewandowski, Jörg (2013): Kopplung hydrodynamischer und biogeochemischer Prozesse in aquatischen Grenzzonen (Coupling of hydrodynamic and biogeochemical processes in aquatic interfaces, in German). Berlin, Humboldt-University Berlin, Geomorphology Colloquium, 22 Oct 2013, invited talk.
13. Lewandowski, Jörg (2013): Hydrodynamik und Biogeochemie an aquatischen Grenzzonen – Von unsichtbaren Grundwassereinträgen bis zu kleinen Larven mit großer Wirkung (Hydrodynamics and biogeochemistry at aquatic interfaces – from unvisible groundwater discharge to small larvae with large impact, in German). Münster, Westfälische Wilhelms-Universität Münster, ILÖK-Colloquium, 17 Dec 2013, invited talk.
12. Lewandowski, Jörg (2012): Kleine Larve, große Wirkung. Einflüsse von Mückenlarven auf Stofftransport und biogeochemischen Umsatz an der Sediment-Wasser Grenze (Small larva, large impact. Impacts of midge larvae on matter tranport and biogeochemical turnover at the sediment-water interface, in German). Geoökologisches Kolloquium, Institut für Geoökologie, TU Braunschweig, 13.12.2012, invited talk.
11. Lewandowski, Jörg & Hupfer, Michael (2012): Restoration of Lake Arendsee. Guatemala-City, Guatemala, Workshop Validation of Methodologies for the Restoration of Lago Amatitlán, 04 Jun. – 8 Jun. 2012, invited talk.
10. Lewandowski, Jörg (2012): Research for the future of our freshwaters. Guatemala-City, Guatemala, Workshop Validation of Methodologies for the Restoration of Lago Amatitlán, 04 Jun. – 8 Jun. 2012, invited talk.
9. Lewandowski, Jörg & Hupfer, Michael (2012): Aeration in Lake Amatitlán? Guatemala-City, Guatemala, Workshop Validation of Methodologies for the Restoration of Lago Amatitlán, 04 Jun. – 8 Jun. 2012, invited talk.
8. Lewandowski, Jörg & Hupfer, Michael (2012): Die Rolle von Phosphat im Sediment als interne Nährstoffquelle (The significance of phosphorus in lake sediments as internal nutrient source, in German). Stemshorn, Germany, 2nd Limnological Symposium Lake Dümmer, 20 Apr. 2012, invited talk.

7. Angermann, Lisa; Lewandowski, Jörg; Fleckenstein, Jan H.; Krause, Stefan & Nützmann, Gunnar (2011): Development and application of a heat pulse sensor for in-situ measurement of hyporheic flow. San Francisco, California, American Geosciences Union (AGU), 05 Dec. – 09 Dec. 2011, invited talk.
6. Pöschke, Franziska & Lewandowski, Jörg (2011): Kleinskalige Heterogenitäten von Nährstoffen (N & P) im Grundwasserleiter einer Aue (Small-scale heterogeneity of the nutrient nitrogen and phosphorous in a floodplain aquifer, in German). Berlin, Germany, Federal Institute for Geosciences and Natural Resources (BGR), 23 Sep. 2011, invited talk.
5. Lewandowski, Jörg & Roskosch, Andrea (2010): Kleine Larve, große Wirkung - Einflüsse von Makrozoobenthos auf Stofftransport und biogeochemische Prozesse in der Grenzzone Sediment-See (Small larva, large impact. Effects of macrozoobenthos on transport and biogeochemical turnover at the sediment-lake interface, in German). Dresden, Germany, Technical University Dresden, Hydrobiology Seminar, 04 Nov. 2010, invited talk.
4. Roskosch, Andrea; Lewandowski, Jörg; Hupfer, Michael & Nützmann, Gunnar (2008): Der Einfluss von *Chironomus plumosus* Larven auf Transport- und Austauschprozesse in limnischen Sedimenten (The impact of *Chironomus plumosus* larvae on transport and exchange processes in limnetic sediments, in German). Bad Saarow, Germany, Brandenburg University of Technology Cottbus, 13 Nov. 2008, invited talk.
3. Lewandowski, Jörg & Nützmann, Gunnar (2007): Small-scale water- and nutrient-exchange between lowland River Spree (Germany) and adjacent groundwater. Wallingford, Great Britain, British Geological Survey, 27 Nov. 2007, invited talk.
2. Lewandowski, Jörg; Roskosch, Andrea; Hupfer, Michael & Nützmann, Gunnar (2007): Hydraulic and biogeochemical impacts of chironomids on nutrients. Kastanienbaum, Switzerland, EAWAG, 08 Mar. 2007, invited talk.
1. Lewandowski, Jörg; Roskosch, Andrea; Hupfer, Michael & Nützmann, Gunnar (2007): Hydraulic and biogeochemical impacts of chironomids on nutrients. Bremen, Germany, Max-Planck Institute for Marine Microbiology, 02 May 2007, invited talk.

Talks and posters presented on international meetings

181. Lewandowski, Jörg; Hölker, Franz; Rothe, Matthias; Baranov, Viktor, Hupfer, Michael (2022): Multiple impacts of *Chironomus plumosus* on freshwater lakes. Logonna Daoulas, France, Nereis Park, 22 – 26 Aug 2022, talk.
180. Reith, Christoph J.*; Spahr, Stephanie; Posselt, Malte; Putschew, Anke and Lewandowski, Jörg (2022): The fate of trace organic compounds and their transformation products along specific hyporheic flow paths. Vienna, Austria, European Geosciences Union General Assembly (EGU), 23 – 27 May 2022, talk.
179. Lewandowski, Jörg; Jäger, Anna*; Mehler, Franziska*; Goldhammer, Tobias and Hupfer, Michael (2022). Significance of lacustrine groundwater discharge for the rapid eutrophication of formerly oligotrophic Lake Stechlin. Vienna, Austria, European Geosciences Union General Assembly (EGU), 23 – 27 May 2022, talk.
178. Amann, Finn; Reith, Christoph J.*; Lewandowski, Jörg and Hinkelmann, Reinhard (2022). Simulating TrOCs concentrations along specific hyporheic flowpaths using an integral surface water-groundwater model. Vienna, Austria, European Geosciences Union General Assembly (EGU), 23 – 27 May 2022, talk.
177. Peters, Kristin; Kiesel, Jens; Grantz, Sven; Strehlow, Karen; Lewandowski, Jörg and Fohrer, Nicola (2022): Untersuchung der Temperaturdynamik in einem Mittelgebirgseinzugsgebiet mit faseroptischer Temperaturmessung. Munich, Germany, Tag der Hydrologie, 22. – 23. Mar. 2022, poster.
176. Schaper, Jonas L.; Xu, Yifan; Hoehne, Anja*; Antesz, Lea; Lewandowski, Jörg; Zarfl, Christiane and Cirpka, Olaf A. (2022): Electrical conductivity fluctuations as a tracer to

determine time-dependent transport characteristics in hyporheic sediments. Chicago, IL, AGU, 12. – 16. Dec. 2022, poster or talk.

175. Sobhi Gollo, Vahid*; Broecker, Tabea; Lewandowski, Jörg; Nützmann, Gunnar and Hinkelmann, Reinhard (2021): An integral modeling approach for surface water-groundwater interaction. Milano, Italy, virtual SIAM Conference on Mathematical & Computational Issues in the Geosciences, 21th-24th June 2021, talk.

174. Wu, Liwen*; Gomez-Velez, Jesus; Krause, Stefan; Wörman, Anders; Singh, Tanu; Nützmann, Gunnar and Lewandowski, Jörg (2021): Dynamic hyporheic responses to transient discharge, temperature and groundwater. Milano, Italy, virtual SIAM Conference on Mathematical & Computational Issues in the Geosciences, 21th-24th June 2021, talk.

173. Lewandowski, Jörg; Jäger, Anna*; Bhardwaj, Himanshu & Mehler, Franziska (2021). The relevance of groundwater-lake interactions for the rapid eutrophication of Lake Stechlin, Brandenburg. Vienna, Austria, vEGU General Assembly, 25 Apr – 30 Apr 2021, pico-presentation.

172. Rodríguez-Ramos, Josué Andés; Borton, Mikayla A.; Daly, Rebecca A.; Mueller, Birgit M.*; Schöpflin, LeAundra; Shaffer, Michael; Danczak, Robert Edward; Schulz, Hanna*; Goldman, Amy E.; Lewandowski, Joerg; Roux, Simon; Stegen, James C. and Wrighton, Kelly C. (2021). Microscopic time travelers: A finely tuned, time-resolved analysis of viral and microbial communities in the Erpe river. New Orleans, AGU Fall Meeting, 13 Dec – 17 Dec 2021, talk.

171. Mueller, Birgit Maria*; Schulz, Hanna*; Danczak, Robert E.; Putschew, Anke and Lewandowski, Jörg (2020): Simultaneous attenuation of trace organic compounds and dissolved organic matter in a river and its hyporheic zone? San Francisco, Online AGU Fall meeting, 1 – 17 Dec 2020, talk.

170. Schulz, Hanna*; Teitelbaum, Yoni; Lewandowski, Jörg; Singer, Gabriel and Arnon, Shai (2020): CO_2 and O_2 dynamics in moving sandy sediments as a response to natural and regulated flow regimes in streams. San Francisco, Online AGU Fall meeting, 1 – 17 Dec 2020, poster.

169. Krause, Stefan; Abbott, Benjamin W.; Baranov, Viktor A.; Bernal, Susana; Blaen, Phillip; Datry, Thibault; Drummond, Jennifer; Fleckenstein, Jan H.; Gomez-Velez, Jesus D.; Hannah, David M; Knapp, Julia L. A.; Kurz, Marie J.; Lewandowski, Jörg; Martí Roca, Eugenia; Mendoza-Lera, Clara; Milner, Alexander; Packman, Aaron I.; Pinay, Gilles; Ward, Adam S. and Zarnetske, Jay P. (2020): The quest for understanding the organisational principles of hyporheic exchange flow and biogeochemical cycling across scales. San Francisco, Online AGU Fall meeting, 1 – 17 Dec 2020, poster.

168. Schulz*, Hanna; Teitelbaum, Yoni; Lewandowski, Jörg; Singer, Gabriel and Arnon, Shai (2020): The effect of stream flow dynamics on microbial metabolism and carbon dioxide production in a moving sandy streambed. Berlin, Germany, UWI conference virtual meeting, 22-24 Sep, talk.

167. Kronsbein, Anna Lena*, Lewandowski, Jörg and Hilt, Sabine (2020): Effects of benthic organisms on the fate of trace organic compounds during bank filtration. Berlin, Germany, UWI conference virtual meeting, 22-24 Sep, talk.

166. Broecker, Tabea*; Sobhi Gollo, Vahid*; Fox, Aryeh; Lewandowski, Jörg; Nützmann, Gunnar; Arnon, Shai and Hinkelmann, Reinhard (2020): Integral modelling approach for tracer transport in the hyporheic zone under neutral, losing and gaining streamflow conditions. Berlin, Germany, UWI conference virtual meeting, 22-24 Sep, talk.

165. Mueller, Birgit Maria*; Schulz, Hanna*; Putschew, Anke and Lewandowski, Jörg (2020): Simultaneous fate of trace organic compounds and dissolved organic matter in the surface water and the hyporheic zone of an urban river. Berlin, Germany, UWI conference virtual meeting, 22-24 Sep, talk.

164. Sobhi Gollo, Vahid*; Broecker, Tabea*; Lewandowski, Jörg; Nützmann, Gunnar and Hinkelmann, Reinhard (2020): Integral modeling of flow in and around a ventilated U-

shaped chironomid burrow. Berlin, Germany, UWI conference virtual meeting, 22-24 Sep, talk.

163. Mueller, Birgit Maria*; Schulz, Hanna*; Putschew, Anke; Lewandowski, Jörg (2020): Simultaneous fate of trace organic compounds and dissolved organic matter in surface water and the hyporheic zone of an urban river. Vienna, Austria, EGU General Assembly: Sharing Geoscience Online, 3-8 May 2020, display.

162. Lewandowski, Jörg; Meinikmann, Karin* and Hupfer, Michael (2020): Groundwater-borne phosphorus import to eutrophic Lake Arendsee (Germany). Vienna, Austria, EGU General Assembly: Sharing Geoscience Online, 3-8 May 2020, display.

161. Posselt, Malte; Schaper, Jonas L.*; Jäger, Anna*; Rutere, Cyrus; Mechelke, Jonas; Kusebauch, Björn; Gergs, René; Portman, Andrea; Herzog, Skuyler; Galloway, Jason*; Li, Zhe; Lewandowski, Jörg and Benskin, Jonathan P. (2020): Spatial and temporal variability of metformin transformation in a flume study. Dublin, Ireland, Setac Europe 30th annual virtual meeting, 3 – 7 May 2020, online poster.

160. Kronsbein, Anna Lena*; Schaper, Jonas*; Lewandowski, Jörg and Hilt, Sabine (2020): Benthic organisms affect the degradation of trace organic compounds during bank filtration: Effects on redox zonation of littoral sediments. Dublin, Ireland, Setac Europe 30th annual virtual meeting, 3 – 7 May 2020, online poster.

159. Gaona, Jaime*; Lewandowski, Jörg and Bellin, Alberto (2019): Modelación de flujos de interacción río-acuífero integrando observaciones distribuidas de temperatura y geofísica. Toledo, Spain, Jornadas de Ingeniería del Agua, 23 Oct – 25 Oct 2019, talk.

158. Gaona, Jaime*; Bellin, Alberto; Wu, Liwen and Lewandowski, Jörg (2019): High-resolution point and distributed datasets improve flow and heat transport modelling in the hyporheic zone. School of Mines, Golden, Colorado, Modflow & More 2019, 2 Jun. – 5 Jun 2019, poster.

157. Schaper*, Jonas L.; Posselt, Malte; Jäger, Anna*; Singer, Gabriel; Putschew, Anke; Nützmann, Gunnar; Jekel, Martin and Lewandowski, Jörg (2019): Transformation of trace organic compounds in hyporheic sediments of urban streams. Haltern am See, Germany, GdCh, 8th Late Summer Workshop Chemical and biological transformation processes and tools for their investigation, 22 Sep. – 25 Sep. 2019, talk.

156. Gaona, Jaime*; Lewandowski, Jörg and Bellin, Alberto (2019): Integrating point and distributed techniques with flow & heat transport modelling for upscaling the study of hyporheic processes. Malaga, Spain, 46th IAH congress, 22 Sep. – 27 Sep. 2019, talk.

155. Mueller, Birgit Maria*; Schulz, Hanna*; Meinikmann, Karin* and Lewandowski, Jörg (2019): Biogeochemical milieu and attenuation of trace organics in the hyporheic zone of an urban river with short-term discharge fluctuations. Vienna, EGU General Assembly, 7 Apr. – 12 Apr. 2019, poster.

154. Schaper, Jonas L.*; Posselt, Malte; Jäger, Anna*; Hoehne, Anja*; Meinikmann, Karin*; Bouchez, Camille; Shanafield, Margaret A.; Banks, Eddie W.; McCallum, Jim; Putschew, Anke; Nützmann, Gunnar; Jekel, Martin and Lewandowski, Jörg (2019): Sediments remove trace organic compounds in urban streams. Berlin, Kosmos Conference, 28 Aug. – 30 Aug. 2019, poster.

153. Schulz*, Hanna; Singer, Gabriel & Lewandowski, Jörg (2019): Resazurin push-and-pull tests to determine the impact of dynamic flow on microbial activity in an urban river. Zagreb, Croatia, Symposium for European Freshwater Sciences (SEFS), 30 Jun. – 5 Jul. 2019, poster.

152. Gaona*, Jaime; Lewandowski, Jörg and Bellin, Alberto (2019): Integrating point and distributed techniques with flow and heat transport modelling for upscaling the study of hyporheic processes. Vienna, Austria, 6th biennial symposium of the International Society for River Sience, 8 Sep. – 13 Sep. 2019, talk.

151. Zolezzi, Guido; Serlet, Alyssa; López Moreira M., Gregorio Alejandro; Bertoldi, Walter; Bruno, Maria Cristina; Gurnell, Angela; Hölker, Franz; Jähnig, Sonja; Lewandowski, Jörg; Monaghan, Michael T.; Rillig, Matthias C.; Rogato, Marina; Severin, Ina; Tockner,

Klement; Toffolon, Marco; Tubino, Marco; Veresoglou, Stavros D.; Wharton, Geraldene and Zarfl, Christiane (2019): SMART Research: Outcomes of a nine-year international interdisciplinary doctoral programme in river science. Vienna, Austria, 6th biennial symposium of the International Society for River Sience, 8 Sep. – 13 Sep. 2019, talk.

150. Wu, Liwen*; Gomez-Velez, Jesus D.; Krause, Stefan; Singh, Tanu; Wörman, Anders and Lewandowski, Jörg (2019): Exploring the dynamics of hyporheic exchange: the role of discharge and temperature variability. San Francisco, USA, AGU Fall Meeting, 9 Dec. – 13 Dec. 2019, poster.
149. Lewandowski, Jörg; Schaper*, Jonas; Jäger*, Anna; Posselt, Malte; Mechelke, Jonas; Galloway*, Jason; Seher*, Wiebke; Peralta-Maraver, Ignacio and Meinikmann*, Karin (2019): Fate of trace organic compounds in urban streams and their hyporheic zones. Vienna, EGU General Assembly, 7 Apr. – 12 Apr. 2019, poster.
148. Lewandowski, Jörg; Schaper*, Jonas; Jäger*, Anna; Posselt, Malte; Mechelke, Jonas; Galloway*, Jason; Seher*, Wiebke; Peralta-Maraver, Ignacio and Meinikmann*, Karin (2019): Preconditions of survival: Removal of trace organics from closed urban water cycles. Berlin, Kosmos Conference, 28 Aug. – 30 Aug. 2019, talk.
147. Broecker, Tabea; Teuber, Katharina; Sobhi Gollo*, Vahid; Nützmann, Gunnar; Lewandowski, Jörg and Hinkelmann, Reinhard (2019): Quantifying hyporheic exchange fluxes through ripples with an integral flow model. Panama City, Panama, 38th IAHR World Congress, 1 Sep – 6 Sep 2019, talk.
146. Posselt, Malte; Coll, Claudia; Mechelke, Jonas; Jäger, Anna*; Njeru, Cyrus; Raza, Muhammad; Betterle, Andrea; Singh, Tanu; Krause, Stefan; Hollender, Juliane; Sobek, Anna; Lewandowski, Jörg; Horn, Marcus; Meinikmann, Karin* and Benskin, Jon (2019): Impacts of bacterial diversity and hyporheic exchange flows on the fate of wastewater-derived polar organic micropollutants – A central composite face designed flume study. Helsinki, Finland, Setac Europe 29th annual meeting, 26 May – 30 May 2019, poster.
145. Deng, Chao; Wolke, Philipp*; Teitelbaum, Yoni; Lewandowski, Jörg and Arnon, Shai (2019): The effect of bed form migration on oxygen consumption in the hyporheic zone. Vienna, EGU General Assembly, 7 Apr. – 12 Apr. 2019, poster.
144. Kronsbein, Anna Lena*; Wegner, Benjamin; Gillefalk, Mikael; Putschew, Anke; Hellweger, Ferdi Leberecht; Lewandowski, Jörg and Hilt, Sabine (2019): Effects of invasive ecosystem engineers on the fate of trace organic pollutants during bank filtration. Vienna, EGU General Assembly, 7 Apr. – 12 Apr. 2019, poster.
143. Wu, Liwen*; Gomez-Velez, Jesus; Singh, Tanu; Lewandowski, Jörg; Wörman, Anders; Nützmann, Gunnar and Krause, Stefan (2019): Exploring the role of river discharge and temperature regulation in hyporheic exchange processes. Vienna, EGU General Assembly, 7 Apr. – 12 Apr. 2019, talk.
142. Sobhi Gollo, Vahid*; Broecker, Tabea; Lewandowski, Jörg; Nützmann, Gunnar and Hinkelmann, Reinhard (2019): Integral flow and transport modelling approach for surface water-groundwater interface domain. Liege, Belgium, Groundwater Quality Conference, 9 Sep – 12 Sep 2019, poster.
141. Sobhi Gollo, Vahid*; Broecker, Tabea; Lewandowski, Jörg; Nützmann, Gunnar and Hinkelmann, Reinhard (2019): Comparison of an integral solver to coupled modelling approach for hydraulic exchange at surface water-groundwater interface along rippled streambed. Vienna, EGU General Assembly, 7 Apr. – 12 Apr. 2019, poster.
140. Schaper, Jonas L.; Seher, Wiebke; Nützmann, Gunnar; Putschew, Anke; Jekel, Martin and Lewandowski, Jörg (2018): Fate of polar trace organic compounds in the hyporheic zone. Vienna, EGU General Assembly, 8 Apr. – 13 Apr. 2018, PICO presentation.
139. Schaper, Jonas L.; Posselt, Malte; Shanafield, Margaret A.; Banks, Eddie W.; Höhne, Anja; Meinikmann, Karin; Putschew, Anke and Lewandowski, Jörg (2018): Fate of trace organics and their metabolites in an urban stream in South Australia. Vienna, EGU General Assembly, 8 Apr. – 13 Apr. 2018, PICO presentation.

138. Wu, Liwen; Singh, Tanu; Gomez-Velez, Jesus; Nützmann, Gunnar; Wörman, Anders; Krause, Stefan and Lewandowski, Jörg (2018): Impacts of floods on bedform-driven hyporheic exchange under gaining and losing groundwater conditions. Vienna, EGU General Assembly, 8 Apr. – 13 Apr. 2018, talk.

137. Wu, Liwen; Singh, Tanu; Gomez-Velez, Jesus; Nützmann, Gunnar; Wörman, Anders; Krause, Stefan; Lewandowski, Jörg; Riml, Joakim and Earon, Robert (2018): Exploring the role of transient flood pulses on bedform-induced hyporheic exchange under gaining and losing groundwater conditions. London, European Hyporheic Forum, 25 Apr. – 27 Apr. 2018, talk.

136. Jäger, Anna; Coll, Claudia; Mechelke, Jonas; Rutere, Cyrus; Posselt, Malte; Raza, Muhammad; Betterle, Andrea; Mehrtens, Anne; Mojarrad, Babak; Scheidweiler, David; Singh, Tanu; Blaen, Phil; Horn, Marcus; Lewandowski, Jörg; Sobek, Anna and Benskin, Jon (2018): HypoTRAIN Joint Field Experiments - June 2017 at University of Birmingham. London, European Hyporheic Forum, 25 Apr. – 27 Apr. 2018, talk.

135. Jäger, Anna; Posselt, Malte; Schaper, Jonas; Betterle, Andrea and Lewandowski, Jörg (2018): Self-purification capacity of an urban lowland stream - an attempt to identify drivers for in-stream transformation processes of organic micropollutants. Vienna, EGU General Assembly, 8 Apr. – 13 Apr. 2018, PICO presentation.

134. Gaona, Jaime; Lewandowski, Jörg and Bellin, Alberto (2018): Combining electromagnetic induction (EMI) and fibre-optics distributed temperature sensing (FO-DTS) to determinate hyporheic exchanges in sand-bed streams. Vienna, EGU General Assembly, 8 Apr. – 13 Apr. 2018, poster.

133. Gaona, Jaime; Lewandowski, Jörg and Bellin, Alberto (2018): Electromagnetic induction geophysics (EMI) to support fiber-optics distributed temperature sensing (FO-DTS) for identifying components of hyporheic exchanges. London, European Hyporheic Forum, 25 Apr. – 27 Apr. 2018, talk.

132. Galloway, Jason; Wu, Liwen; Fox, Aryeh; Lewandowski, Jörg and Arnon, Shai (2018): The effect of unsteady flow on bedform-driven hyporheic exchange under varying vertical flux conditions. Vienna, EGU General Assembly, 8 Apr. – 13 Apr. 2018, poster.

131. Galloway, Jason; Lewandowski, Jörg and Arnon, Shai (2018): The effect of unsteady surface flow on subsurface oxygen dynamics. London, European Hyporheic Forum, 25 Apr. – 27 Apr. 2018, talk.

130. Gaona, Jaime; Lewandowski, Jörg and Bellin, Alberto (2018): Fiber optics distributed temperature sensing for spatio-temporal analysis of thermal footprints of groundwater-stream water exchanges. Trento, IAHR Europe congress, 12 Jun. – 14 Jun. 2018, talk.

129. Gaona Garcia, Jaime; Bellin, Alberto; Wu, Liwen and Lewandowski, Jörg (2018): Flow and heat transport modelling in the hyporheic zone based on high resolution temperature and geophysics datasets. Washington, AGU Fall Meeting, 10 Dec. – 14 Dec. 2018, poster.

128. Wu, Liwen; Singh, Tanu; Gomez-Velez, Jesus; Nützmann, Gunnar; Wörman, Anders; Jörg Lewandowski and Krause, Stefan (2018): Heat transport in dynamically changing hyporheic zones. Washington, AGU Fall Meeting, 10 Dec. – 14 Dec. 2018, talk.

127. Shanafield, Margaret A.; Banks, Eddie W.; Schaper, Jonas L.; Meinikmann, Karin; Höhne, Anja; Batelaan, Okke and Lewandowski, Jörg (2017): Groundwater-surface water interactions in metropolitan areas - a DAAD scheme collaboration between Flinders University & Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB). Canberra, Universities Australia Higher Education Conference, 1 Mar. – 3 Mar. 2017, poster.

126. Wu, Liwen; Singh, Tanu; Lewandowski, Jörg; Nützmann, Gunnar; Wörman, Anders; Hannah, David; Krause, Stefan and Gomez-Velez, Jesus D. (2017): Dynamic hyporheic zones: Exploring the role of transient flood pulses on bedform-induced exchange. Vienna, EGU General Assembly, 23 Apr. – 28 Apr. 2017, poster.

125. Baranov, Viktor; Krause, Stefan and Lewandowski, Jörg (2017): Influence of bioturbation on sediment respiration in advection- and diffusion-dominated systems. Vienna, EGU General Assembly, 23 Apr. – 28 Apr. 2017, poster.

124. Gaona, Jaime and Lewandowski, Jörg (2017): Experiences on vertical flux estimation under strong upwelling and highly heterogeneous streambed conditions. Vienna, EGU General Assembly, 23 Apr. – 28 Apr. 2017, poster.

123. Jäger, Anna; Posselt, Malte; Schaper, Jonas and Lewandowski, Jörg (2017): Attenuation of organic micropollutants in an urban lowland stream under varying seasonal and hydrological conditions. Vienna, EGU General Assembly, 23 Apr. – 28 Apr. 2017, poster.

122. Lewandowski, Jörg; Gercken, Jasper; Premke, Katrin and Meinikmann, Karin (2017): Fast estimation of lacustrine groundwater discharge volumes based on stable water isotopes. Vienna, EGU General Assembly, 23 Apr. – 28 Apr. 2017, poster.

121. Banks, Eddie W.; Shanafield, Margaret; McCallum, James; Noorduijn, Saskia; Lewandowski, Jörg and Batelaan, Okke (2017): Rapid assessment of multi-directional 3D-flow fields using active heat pulse sensing in the streambed. Vienna, EGU General Assembly, 23 Apr. – 28 Apr. 2017, poster.

120. Galloway, Jason; Wu, Liwen, Lewandowski, Jörg and Arnon, Shai (2017): The effect of unsteady flow on oxygen dynamics under losing and gaining conditions. Birmingham, HydroEco, 18 Jun. – 23 Jun. 2017, poster.

119. Lewandowski, Jörg; Hölker, Franz; Baranov, Viktor and Hupfer, Michael (2017): Small-scale bioturbation has severe impacts on entire ecosystems. Birmingham, HydroEco, 18 Jun. – 23 Jun. 2017, talk.

118. Baranov, Viktor; Lewandowski, Jörg; Krause, Stefan and Romeijn, Paul (2017): Small Ecosystem engineers are major drivers of aquatic sediment respiration. Birmingham, HydroEco, 18 Jun. – 23 Jun. 2017, talk.

117. Peralta-Maraver, Ignacio; Galloway, Jason; Posselt, Malte; Arnon, Shai; Reiss, Julia; Lewandowski, Jörg and Robertson, Anne (2017): Assessing the role of vertical flux on sediments ecology and community distribution in rivers: a holistic approach. Birmingham, HydroEco, 18 Jun. – 23 Jun. 2017, talk.

116. Krause, Stefan; Baranov, Viktor; Lewandowski, Jörg; Gomez-Velez, Jesus D.; Blaen, Phillip and Paul Romeijn (2017): The good, the bad and the ugly: Interacting physical, biogeochemical and biological controls of nutrient cycling and ecohydrological interfaces. Birmingham, HydroEco, 18 Jun. – 23 Jun. 2017, talk.

115. Gaona, Jaime; Lewandowski, Jörg and Bellin, Alberto (2017): Identification of patterns of groundwater-stream water exchange fibre optic distributed temperature sensing. Birmingham, HydroEco, 18 Jun. – 23 Jun. 2017, talk.

114. Marruedo Arricibita, Amaya I.; Lewandowski, Jörg; Krause, Stefan; Dugdale, Stephen J. and Hannah, David M. (2017): Thermal infrared imaging for detection of upwelling fluxes in the water surface. Birmingham, HydroEco, 18 Jun. – 23 Jun. 2017, poster.

113. Marruedo Arricibita, Amaya I.; Lewandowski, Jörg; Krause, Stefan; Hannah, David M. and Packmann, Aaron (2017): Scaling of water and heat flux/exchange processes in freshwater environments. Birmingham, HydroEco, 18 Jun. – 23 Jun. 2017, poster.

112. Jäger, Anna; Posselt, Malte; Schaper, Jonas; Riml, Joakim and Lewandowski, Jörg (2017): Using intrinsic diurnal concentration fluctuations in an urban lowland stream to simulate transport and fate of organic micropollutants with the the one-dimensional transport model OTIS. Birmingham, HydroEco, 18 Jun. – 23 Jun. 2017, poster.

111. Wu, Liwen; Singh, Tanu; Lewandowski, Jörg; Nützmann, Gunnar; Wörman Anders L. E.; Hannah, David M.; Krause, Stefan and Gomez-Velez, Jesus D. (2017): Exploring the role of transient flood pulses on bedform-induced hyporheic zone exchange. Birmingham, HydroEco, 18 Jun. – 23 Jun. 2017, poster.

110. Lewandowski, Jörg; Pöschke, Franziska and Meinikmann, Karin (2017): Deuterium and O-18 as tracers for lacustrine groundwater discharge. Birmingham, HydroEco, 18 Jun. – 23 Jun. 2017, poster.
109. Schaper, Jonas L.; Höhne, Anja; Meinikmann, Karin; Shanafield, Margaret A.; Banks, Eddie W.; McCallum, Jim; Posselt, Malte, Putschew, Anke; Nützmann, Gunnar, Batelaan, Okke and Lewandowski, Jörg (2017): Relative contribution of hyporheic to whole stream attenuation of trace organics in an urban stream. Birmingham, HydroEco, 18 Jun. – 23 Jun. 2017, poster.
108. Gaona, Jaime; Lewandowski, Jörg; Bellin, Alberto (2017): Técnicas térmicas puntuales y distribuidas para la estimación de los flujos de interacción río-acuífero. Coruña, Spain, Biannual Meeting of Water Engineering (JIA), 24 Oct. – 26 Oct. 2017, talk.
107. McCallum, James; Shanafield, Margaret A.; Banks, Eddie W.; Schaper, Jonas L.; Meinikmann, Karin; Höhne, Anja; Batelaan, Okke and Lewandowski, Jörg (2017): Seasonal dynamics of residence times in a perennial, wastewater impacted stream. Sydney, Australasian Groundwater Conference (NCGRT/IAH), 11 Jul. – 13 Jul. 2017, poster.
106. Banks, Eddie W.; Shanafield, Margaret; Noorduijn, Saskia; McCallum, James; Lewandowski, Jörg and Batelaan, Okke (2017): Measuring multi-directional 3D-flow fields using active heat pulse sensing in the streambed. Sydney, Australasian Groundwater Conference (NCGRT/IAH), 11 Jul. – 13 Jul. 2017, poster.
105. Inshyna, Valentyna; Baranov, Viktor and Lewandowski, Jörg (2017): Sediment biogeochemistry controls relevance of bioturbation for phosphorous cycling in lakes. Stony Brook, NY, USA, Nereis Park Conference, 8 Aug. – 11 Aug. 2017, poster.
104. Baranov, Viktor; Romeijn, Paul; Krause, Stefan; Queiros, Ana and Lewandowski, Jörg (2017): Peeping into the black box: using a “smart” tracer to enlighten oxygen consumption in bioturbated sediments. Stony Brook, NY, USA, Nereis Park Conference, 8 Aug. – 11 Aug. 2017, talk.
103. Singh, Tanu; Wu, Liwen; Gomez-Velez Jesus;Lewandowski, Jörg; Nützmann, Gunnar; Hannah, David M.; Krause, Stefan (2017): Response of hyporheic zones to transient forcing. New Orleans, AGU fall meeting, 11 Dec. – 15 Dec. 2017, talk.
102. Galloway, Jason; Wu, Liwen; Fox, Aryeh; Lewandowski, Jörg and Arnon, Shai (2017): The effect of unsteady flow on oxygen dynamics under losing and gaining conditions. New Orleans, AGU fall meeting, 11 Dec. – 15 Dec. 2017, poster.
101. Gaona, Jaime; Bellin, Alberto and Lewandowski, Jörg (2017): Identification of patterns of groundwater-stream water exchange by coupling point and distributed techniques in a heterogeneous sand bed-stream. New Orleans, AGU fall meeting, 11 Dec. – 15 Dec. 2017, talk.
100. Jäger, Anna; Posselt, Malte; Schaper, Jonas and Lewandowski, Jörg (2017): Formation of transformation products from wastewater-derived pharmaceuticals in an urban lowland stream. New Orleans, AGU fall meeting, 11 Dec. – 15 Dec. 2017, poster.
99. Marruedo Arricibita, Amaia I.; Lewandowski, Jörg; Krause, Stefan and Hannah, David M. (2016): Characterization of lacustrine groundwater discharge and resulting lake-internal upwelling by thermal infrared imaging and fibre-optic distributed temperature sensing: a mesocosm experiment. Bath, UK, 19th Workshop on Physical Processes in Natural Waters, 12 Jul. – 15 Jul. 2016, talk.
98. Baranov, Viktor; Lewandowski, Jörg and Krause, Stefan (2016): Bioturbation is influencing CO_2 emission from shallow temperate lakes. Torino, Italy, International Society of Limnology (SIL), 31 Jul. – 05 Aug. 2016, talk.
97. Baranov, Viktor A.; Krause, Stefan and Lewandowski, Jörg (2016): Aquatic insect larvae are major players in mediating lakes’ carbon-sequestering capacities in the warming world. Florida, Orlando, International Congress of Entomology, 25 Sep. – 30 Sep. 2016, talk.

96. Wu, Liwen; Singh, Tanu; Lewandowski, Jörg; Nützmann, Gunnar; Wörman, Anders L. E.; Hannah, David M.; Krause, Stefan and Gomez-Velez, Jesus D. (2016): Impacts of freshets on hyporheic exchange flow under gaining and losing conditions. San Francisco, AGU fall meeting, 12 – 16 Dec. 2016, poster.
95. Schaper, Jonas L.; Popp, Andrea L.; Meinikmann, Karin; Shanafield, Margaret A.; Banks, Eddie W.; Putschew, Anke; Nützmann, Gunnar and Lewandowski, Jörg (2016): Fate of polar organic trace compounds infiltrating into an alluvial aquifer from an urban lowland river. San Francisco, AGU fall meeting, 12 – 16 Dec. 2016, talk.
94. Krause, Stefan; Baranov, Viktor A.; Lewandowski, Jörg; Blaen, Phil and Romeijn, Paul (2016): The good, the bad and the ugly – Interacting physical, biogeochemical and biolological controls of nutrient cycling at ecohydrological interfaces. San Francisco, AGU fall meeting, 12 – 16 Dec. 2016, talk.
93. Lewandowski, Jörg; Meinikmann, Karin; Nützmann, Gunnar and Rosenberry, Donald O. (2016): Lacustrine groundwater discharge – the disregarded component of water and nutrient budgets. Campinas, Brazil, Brazilian-German Frontiers of Science and Technology Symposia (BRAGFOST, Alexander von Humboldt Foundation), 20 – 23 Sep. 2016, poster.
92. Blaen, Phillip; Kurz, Marie; Knapp, Julia; Mendoza-Lera, Clara; Lee-Cullin, Joe; Klaar, Megan; Drummond, Jennifer; Jäger, Anna; Zarnetske, Jay; Lewandowski, Jörg; Marti, Eugenia; Ward, Adam; Fleckenstein, Jan; Datry, Thibault; Larned, Scott and Krause, Stefan (2016): Multi-scale controls on spatial variability in river biogeochemical cycling. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, talk.
91. Krause, Stefan; Lewandowski, Jörg; Hannah, David; McDonald, Karlie; Folegot, Silvia and Baranov, Victor (2016): Ecohydrological interfaces as dynamic hotspots of biogeochemical cycling. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
90. Baranov, Viktor; Queiros, Ana; Widdicombe, Steve; Stephens, Nick; Lesin, Gennadi; Krause, Stefan and Lewandowski, Jörg (2016): A novel approach to assess biotic oxygen consumption in marine sediment communities. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
89. Baranov, Viktor; Lewandowski, Jörg; Krause, Stefan and Romeijn, Paul (2016): Small ecosystem engineers as important regulators of lake's sediment respiration. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, talk.
88. Marruedo Arricibita, Amaia I.; Lewandowski, Jörg; Krause, Stefan and Hannah, David M. (2016): Comparative study of thermal infrared imaging and fibre-optic distributed temperature sensing for detecting lacustrine groundwater discharge: a mesocosm experiment. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
87. Marruedo Arricibita, Amaia I.; Lewandowski, Jörg; Krause, Stefan and Dämpfling, Hauke (2016): Upwelling of warm water in lakes due to lacustrine groundwater discharge. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
86. Lewandowski, Jörg; Meinikmann, Karin; Felsmann, Katja; Hölker, Franz and Premke, Katrin (2016): Are citizen science projects useful for studying complex processes such as lacustrine groundwater discharge? Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
85. Pöschke, Franziska; Schlichting, Hendrik and Lewandowski, Jörg (2016): Identification of temporal and small-scale spatial variations of phosphate concentration in the near-shore groundwater of an oligotrophic lake. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
84. Meinikmann, Karin; Hupfer, Michael and Lewandowski, Jörg (2016): Phosphorus in lacustrine groundwater discharge drives eutrophication. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
83. Krause, Stefan; Hannah, David; Blume, Theresa; Angermann, Lisa; Lewandowski, Jörg & Cassidy, Nigel (2016): Nested heat tracer experiments for identifying heterogeneity of

aquifer-river exchange at multiple scales. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.

82. Blaen, Phillip; Kurz, Marie; Knapp, Julia; Mendoza-Lera, Clara; Lee-Cullin, Joe; Klaar, Megan; Drummond, Jennifer; Jaeger, Anna; Zarnetske, Jay; Lewandowski, Joerg; Marti, Eugenia; Ward, Adam; Fleckenstein, Jan; Datry, Thibault; Larned, Scott & Krause, Stefan (2016): Geomorphic and substrate controls on spatial variability in river solute transport and biogeochemical cycling. Vienna, EGU General Assembly, 17 Apr. – 22 Apr. 2016, poster.
81. Marruedo Arricibita, Amaia I.; Lewandowski, Jörg; Krause, Stefan and Dämpfling, Hauke (2016): Comparative study of thermal infrared imaging and fibre-optic distributed temperature sensing for detecting lacustrine groundwater discharge: a mesocosm experiment. Berlin, EHF (European Hyporheic Forum), 13 Jun. 2016, poster.
80. Marruedo Arricibita, Amaia I.; Lewandowski, Jörg; Krause, Stefan; Hannah, David M. & Dämpfling, Hauke (2015): Quantifying the efficiency of fibre-optic distributed temperature sensing for detecting lacustrine groundwater discharge (LGD): a mesocosm experiment. San Francisco, American Geophysical Union Fall Meeting (AGU), 14 Dec. – 18 Dec. 2015, poster.
79. Lewandowski, Jörg; Krause, Stefan & Interfaces Team (2015): Conceptual framework for aquatic interfaces. San Francisco, American Geophysical Union Fall Meeting (AGU), 14 Dec. – 18 Dec. 2015, poster.
78. Baranov, Viktor; Lewandowski, Jörg; Romeijn, Paul & Krause, Stefan (2015): Bioirrigation impacts on sediment respiration and microbial metabolic activity. San Francisco, American Geophysical Union Fall Meeting (AGU), 14 Dec. – 18 Dec. 2015, poster.
77. Meinikmann, Karin; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2015): Is groundwater-borne phosphorus relevant for lake eutrophication? Berlin, 17th IWA International Conference on Diffuse Pollution and Eutrophication, 13 Sep. – 18 Sep. 2015, talk.
76. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska; Nützmann, Gunnar & Rosenberry, Donald O. (2015): Lacustrine and submarine groundwater discharge fuel eutrophication – a literature review of a seriously underestimated import path. Berlin, 17th IWA International Conference on Diffuse Pollution and Eutrophication, 13 Sep. – 18 Sep. 2015, talk.
75. Pöschke, Franziska; Lewandowski, Jörg; Engelhardt, Christof; Ruhtz, Thomas & Kirillin, Georgiy (2015): Upwelling in dimictic lakes in spring. Landau, 18th Workshop on Physical Processes in Natural Waters, 25 – 28 August 2015, talk.
74. Rosenberry, Donald O.; Lewandowski, Jörg; Meinikmann, Karin & Nützmann, Gunnar (2015): Water and nutrient fluxes at the sediment-water ecotone of lakes: How important is exchange with groundwater? Montreal, AGU Joint Assembly, 03 May – 07 May 2015, talk.
73. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska; Nützmann, Gunnar & Rosenberry, Donald O. (2015): Submarine and lacustrine groundwater discharge and groundwater-mediated nutrient transport. Vienna, EGU General Assembly, 12 Apr. – 17 Apr. 2015, talk.
72. Lewandowski, Jörg; Pöschke, Franziska; Meinikmann, Karin; Rudnick, Sebastian; Périllon, Cécile; Elmarami, Hatem; Massmann, Gudrun & Stumpp, Christine (2015): Stable water isotopes as tracers in studies of lacustrine groundwater discharge. Vienna, EGU General Assembly, 12 Apr. – 17 Apr. 2015, poster.
71. Lewandowski, Jörg & Krause, Stefan (2015): Coupling of hydrodynamic and biogeochemical processes at aquatic interfaces. Vienna, EGU General Assembly, 12 Apr. – 17 Apr. 2015, poster.
70. Hupfer, Michael; Lewandowski, Jörg; Kleeberg, Andreas & Reitzel, Kasper (2015): Long-term efficiency of lake restoration by chemical phosphorus precipitation: Scenarios with a

phosphorus balance model. Granada, ASLO Aquatic Sciences Meeting, 22 Feb. – 27 Feb. 2015, talk.

69. Lewandowski, Jörg; Hölker, Franz; Baranov, Viktor; Hupfer, Michael; Vanni, Michael J.; Kuiper, Jan J.; Meile, Christof; Grossart, Hans-Peter; Stief, Peter; Adrian, Rita; Lorke, Andreas; Dellwig, Olaf; Brand, Andreas; Mooij, Wolf M. & Nützmann, Gunnar (2015): 2 : 1 for team macro: Chiromids are key players not only in benthic processes but even in entire lake ecosystems. Granada, ASLO Aquatic Sciences Meeting, 22 Feb – 27 Feb. 2015, talk.
68. Mark O. Gessner, Kasprzak, P. & Lewandowski, J. (2014): Lake monitoring and recent limnological changes. Bonn, Tereno International Conference 29 Sep – 2 Oct 2014, talk.
67. Cécile Périllon, Franziska Pöschke, Jörg Lewandowski, Sabine Hilt (2014): Groundwater seepage affects periphyton – submerged macrophyte interactions in the littoral of an oligotrophic lake. Antalya, Shallow lakes, 12 – 17 Oct 2014, talk.
66. Hupfer, Michael; Jordan, Sylvia; Herzog, Christiane & Lewandowski, Jörg (2014): Impacts of chironomids on phosphorus retention in the sediment of a shallow lake: A long- term laboratory study. Antalya, Shallow lakes, 12 – 17 Oct 2014, talk.
65. Lewandowski, Jörg; Hölker, Franz; Hupfer, Michael; Adrian, Rita; Nützmann, Gunnar; Lorke, Andreas; Kuiper, Jan J. & Mooij, Wolf M. (2014): The underestimated impact of tube-dwelling macrozoobenthos in lake ecosystems: Eroding a long-lasting limnological paradigm. Plymouth, Nereis Park Conference, 7 Aug – 10 Aug 2014, talk.
64. Baranov, Viktor; Lewandowski, Jörg & Hupfer, Michael (2014): Does bioturbation of chironomids (Diptera, Chironomidae) increase or decrease phosphorus release from lacustrine sediments? Plymouth, Nereis Park Conference, 7 Aug – 10 Aug 2014, talk.
63. Pöschke, Franziska; Lewandowski, Jörg & Nützmann, Gunnar (2014): Lacustrine groundwater discharge (LGD) to a closed-basin lake - a concept for estimating the effects of a changing catchment on the lake water balance. Vienna, EGU General Assembly, 27 Apr. – 02 May 2014, poster.
62. Lewandowski, Jörg; Pöschke, Franziska; Rudnick, Sebastian; Meinikmann, Karin & Périllon, Cécile (2014): Usefulness of O-18 and deuterium to study transport processes at aquatic interfaces. Vienna, EGU General Assembly, 27 Apr. – 02 May 2014, poster.
61. Baranov, Viktor A. & Lewandowski, Jörg (2014): Chironomidae larvae role in nutrient cycling in freshwater ecosystems. České Budějovice, Czech Republic, 9th International Symposium on Chironomidae, 18 – 21 Aug 2014, poster.
60. Lewandowski, Jörg; Meinikmann, Karin; Nützmann, Gunnar; Rosenberry, Donald O. (2013): Should we consider lacustrine groundwater discharge (LGD) in nutrient budgets of lakes? New Orleans, Louisiana, ASLO Aquatic Sciences Meeting, 17 Feb. – 22 Feb. 2013, talk.
59. Brand, Andreas; Lewandowski, Jörg; Hamann, Enrico & Nützmann, Gunnar (2013): Can advection be disregarded in muddy, bioirrigated sediments? – A model study. New Orleans, Louisiana, ASLO Aquatic Sciences Meeting, 17 Feb. – 22 Feb. 2013, talk.
58. Lehr, Christian; Lewandowski, Jörg & Lischeid, Gunnar (2013): Effects of an restorated stream channel on groundwater dynamics. Vienna, EGU General Assembly, 13 Apr. – 17 Apr. 2013, poster.
57. Lewandowski, Jörg; Meinikmann, Karin; Ruhtz, Thomas; Pöschke, Franziska & Kirillin, Georgiy (2013): Lacustrine groundwater discharge: Combination of air-borne and ground-based studies. Vienna, EGU General Assembly, 13 Apr. – 17 Apr. 2013, poster.
56. Meinikmann, Karin Lewandowski, Jörg Nützmann, Gunnar & Hupfer, Michael: Discharge of groundwater-borne phosphorus into a lake and its spatial variability. Vienna, EGU General Assembly, 13 Apr. – 17 Apr. 2013, talk.
55. Nützmann, Gunnar; Lewandowski, Jörg; Brand, Andreas; Roskosch, Andrea & Hupfer, Michael (2013): Impacts of macrozoobenthos on hydrodynamics and processes at the sediment-lake interface: Experimental and mathematical investigations. Rennes, France,

4th International Multidisciplinary Conference on Hydrology and Ecology (HydroEco), 13 May – 16 May 2013, talk.

54. Lewandowski, Jörg; Pöschke, Franziska; Meinikmann, Karin; Ruhtz, Thomas; Engelhardt, Christof; Kirillin, Georgiy; Dämpfling, Hauke & Nützmann, Gunnar (2013): Real-time acquisation of lacustrine groundwater discharge. Koblenz, Germany, 6th International Conference on Water Resources and Environment Research (ICWRER), 3 Jun. – 7 Jun. 2013, talk.
53. Meinikmann, Karin; Sacher, Andrea; Graumnitz, Stephanie; Piekarski, Jens; Hupfer, Michael & Lewandowski, Jörg (2013): Phosphorus-loads to surface waters from agricultural catchments – Do we need high resolution measurements? Münster, Germany, 8th Symposium for European Freshwater Sciences (SEFS), 1 Jul. – 5 Jul. 2013, talk.
52. Lewandowski, Jörg; Pöschke, Franziska; Meinikmann, Karin; Ruhtz, Thomas; Engelhardt, Christof; Kirillin, Georgiy; Dämpfling, Hauke & Nützmann, Gunnar (2013): Real-time acquisation of lacustrine groundwater discharge. Münster, Germany, 8th Symposium for European Freshwater Sciences (SEFS), 1 Jul. – 5 Jul. 2013, talk.
51. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska; Nützmann, Gunnar & Rosenberry, Donald O. (2013): From submarine to lacustrine groundwater discharge. Gothenburg, IAHS & IAPSO & IASPEI, 22 Jul. – 26 Jul. 2013, talk.
50. Meinikmann, Karin; Lewandowski, Jörg & Nützmann, Gunnar & Hupfer, Michael (2013): Spatial variability of lacustrine groundwater discharge (LGD) and its relevance for lake eutrophication. Gothenburg, IAHS & IAPSO & IASPEI, 22 Jul. – 26 Jul. 2013, talk.
49. Rudnick, Sebastian; Lewandowski, Jörg & Nützmann, Gunnar (2013): Investigation of groundwater-surface water interactions in shallow lakes using hydraulic head data and a groundwater net balance. Gothenburg, IAHS & IAPSO & IASPEI, 22 Jul. – 26 Jul. 2013, talk.
48. Nützmann, Gunnar; Meinikmann, Karin; Pöschke, Franziska; Ruhtz, Thomas; Kirillin, Georgiy & Lewandowski, Jörg (2013): Real-time eco-hydrology: investigating groundwater – surface water exchange combining different technologies. Gothenburg, IAHS & IAPSO & IASPEI, 22 Jul. – 26 Jul. 2013, talk.
47. Lewandowski, Jörg; Meinikmann, Karin; Ruhtz, Thomas; Kirillin, Georgiy; Pöschke, Franziska & Nützmann, Gunnar (2012): Lacustrine groundwater discharge Localization of lake water quality deterioration based on combining airborne thermal infrared radiation (TIR) to detect major lacustrine groundwater discharge (LGD) zones and ground-based measurements to determine pattern of groundwater contamination. San Francisco, AGU fall meeting, 03 Dec. – 07 Dec. 2012, poster.
46. Blume, Theresa; Tecklenburg, Christina; Krause, Stefan & Lewandowski, Jörg (2012): Groundwater-Surface Water Interactions along a Lake Shore: Spatial Patterns and Temporal Dynamics. San Francisco, AGU fall meeting, 03 Dec. – 07 Dec. 2012, poster.
45. Krause, Stefan; Blume, Theresa; Hannah, David M.; Angermann, Lisa; Lewandowski, Jörg & Cassidy, Nigel (2012): Nested heat tracer experimants for quantifying spatial patterns of aquifer-river exchange at multiple scales. Charlotte, USA, Geological Society of America (GSA) Annual meeting, 04 Nov. – 07. Nov. 2012, talk.
44. Brand, Andreas; Lewandowski, Jörg; Hamann, Enrico & Nützmann, Gunnar (2012): Advection in biorrigated muddy sediments – can it be relevant? A model study. Illinois, Urbana-Champaign, XIX International Conference on Computational Methods in Water Resources (CMWR), 17 Jun – 22 Jun., talk.
43. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska & Nützmann, Gunnar (2012): Groundwater discharge to lakes (GDL) – the disregarded component of lake nutrient budgets. Vienna, Austria, European Geosciences Union General Assembly (EGU), 23 Apr. – 27 Apr. 2012, poster.
42. Blume, Theresa; Krause, Stefan; Meinikmann, Karin & Lewandowski, Jörg (2012): Spatial and temporal variability of groundwater-surface water interactions along a lake

shore. Vienna, Austria, European Geosciences Union General Assembly (EGU), 23 Apr. – 27 Apr. 2012, talk.

41. Krause, Stefan; Hannah, David M.; Blume, Theresa; Angermann, Lisa; Lewandowski, Jörg & Cassidy, Nigel J. (2012): Nested heat tracer experiments for identifying heterogeneity of aquifer-river exchange at multiple scales. Vienna, Austria, European Geosciences Union General Assembly (EGU), 23 Apr. – 27 Apr. 2012, poster.
40. Fleckenstein, Jan H.; Neumann, Christiane; Hausner, Mark B.; Tyler, Scott W.; Angermann, Lisa & Lewandowski, Jörg (2011): Assessing spatial patterns of lake-groundwater exchange using distributed temperature sensing (DTS) and heat as a natural tracer. San Francisco, California, American Geosciences Union (AGU), 05 Dec. – 09 Dec. 2011, talk.
39. Lewandowski, Jörg; Hupfer, Michael; Roskosch, Andrea; Brand, Andreas & Nützmann, Gunnar (2011): Small larvae, large impact - Impacts of macrozoobenthos on hydrodynamic and biogeochemical processes at the sediment-lake interface. Kristineberg, Sweden, Nereis Park Conference, 29 Aug. – 31 Aug. 2011, talk.
38. Nützmann, Gunnar; Roskosch, Andrea & Lewandowski, Jörg (2011): Impact of *Chironomus plumosus* on water and nutrient transport in lake bed sediments - preliminary modelling results. Melbourne, Australia, International Union of Geodesy and Geophysics General Assembly (IUGG), 28 Jun. – 07 Jul. 2011, talk.
37. Lewandowski, Jörg & Nützmann, Gunnar (2011): Groundwater–surface water exchange before and after reopening of a river meander. Melbourne, Australia, International Union of Geodesy and Geophysics General Assembly (IUGG), 28 Jun. – 07 Jul. 2011, talk.
36. Lewandowski, Jörg & Nützmann, Gunnar (2011): Small larva, large impact: Impacts of macrozoobenthos on hydrodynamic and biogeochemical processes in lake sediments. Melbourne, Australia, International Union of Geodesy and Geophysics General Assembly (IUGG), 28 Jun. – 07 Jul. 2011, talk.
35. Lewandowski, Jörg; Angermann, Lisa & Nützmann, Gunnar (2011): Hydrological and biogeochemical processes involved in groundwater-surface water exchange at a lowland river. Ascona, Switzerland, River Corridor Restoration Conference, 13 Mar. – 18 Mar. 2011, talk.
34. Pöschke, Franziska; Lewandowski, Jörg & Nützmann, Gunnar (2011): Small-scale heterogeneities of nutrient turnover and transport in a floodplain's aquifer. Vienna, Austria, European Geosciences Union General Assembly (EGU), 04 Apr. – 08 Apr. 2011, poster.
33. Schuchort, S.; Lewandowski, Jörg & Nützmann, Gunnar (2011): Hydrological and geochemical characterization of the hyporheic zone of an eutrophic lowland stream impacted by a wastewater treatment plant. Vienna, Austria, European Geosciences Union General Assembly (EGU), 04 Apr. – 08 Apr. 2011, poster.
32. Lewandowski, Jörg; Putschew, Anke; Schwesig, David; Neumann, Christiane & Radke, Michael (2011): Fate of organic micropollutants in the hyporheic zone of eutrophic lowland streams: results of a field study in the Erpe, Germany. Vienna, Austria, European Geosciences Union General Assembly (EGU), 04 Apr. – 08 Apr. 2011, poster.
31. Meinikmann, Karin; Lewandowski, Jörg & Hupfer, Michael (2011): Groundwater as main input path of nutrients to lake ecosystems - A case study from Germany. Vienna, Austria, European Geosciences Union General Assembly (EGU), 04 Apr. – 08 Apr. 2011, poster.
30. Angermann, Lisa; Lewandowski, Jörg; Fleckenstein, Jan H.; Krause, Stefan & Nützmann, Gunnar (2010): Insights into hydraulics of the hyporheic zone - in situ measurements give evidence about spatial flow patterns. Seoul, South Korea, 8th International Symposium on Ecohydraulics, 12 Sep. – 17 Sep. 2010, talk.
29. Lewandowski, Jörg; Cabezas, Alvaro; Angermann, Lisa & Nützmann, Gunnar (2010): Hydrological and biogeochemical processes involved in groundwater-surface water exchange at a lowland river. Seoul, South Korea, 8th International Symposium on Ecohydraulics, 12 Sep. – 17 Sep. 2010, talk.

28. Lewandowski, Jörg; Meinikmann, Karin & Nützmann, Gunnar (2010): Groundwater - The disregarded component in lake nutrient budgets. Vienna, Austria, European Geosciences Union General Assembly (EGU), 03 May – 07 May 2010, talk.
27. Roskosch, Andrea; Jordan, Sylvia; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2010): Bioirrigation induced fluxes in sediments and their effects on nutrient distribution. Santa Fe, American Society of Limnology and Oceanography Summer Meeting (ASLO), 06 Jun. – 11 Jun. 2010, talk.
26. Hamann, Enrico; Greskowiak, Janek; Roskosch, Andrea; Jordan, Sylvia; Hupfer, Michael; Lewandowski, Jörg & Nützmann, Gunnar (2010): Simulation of lake's sedimentary phosphorus balance governed by bioirrigation using reactive multicomponent transport modelling. Barcelona, 18th International Conference on Computational Methods in Water Resources (CMWR). Barcelona, Spain, 21 Jun. – 24 Jun. 2010, talk.
25. Nützmann, Gunnar & Lewandowski, Jörg (2009): Hydrological processes involved in groundwater-surface water exchange at a lowland river: measurements and modelling. Hyderabad, 8th International Association of Hydrological Sciences scientific assembly (IAHS) & 37th International Association of Hydrogeologists congress(IAH), Hyderabad, India, 06 Sep. – 12 Sep. 2009, talk.
24. Lewandowski, Jörg & Nützmann, Gunnar (2009): Hydrological and biogeochemical processes involved in groundwater-surface water exchange at a lowland river. Hyderabad, 8th International Association of Hydrological Sciences scientific assembly (IAHS) & 37th International Association of Hydrogeologists congress(IAH), Hyderabad, India, 06 Sep. – 12 Sep. 2009, talk.
23. Lewandowski, Jörg & Nützmann, Gunnar (2009): Hydrological and biogeochemical processes involved in groundwater-surface water exchange at a lowland river. San Pietro, Italy, Mini-Symposium on Fluvial Hydraulics, Morphodynamics & Ecology, 28 Apr. – 30 Apr. 2009, talk.
22. Angermann, Lisa; Fleckenstein, Jan H.; Nützmann, Gunnar & Lewandowski, Jörg (2009): Determination of small-scale flow directions and velocities in the hyporheic interstitial. Vienna, Austria, European Geosciences Union General Assembly (EGU), 20 Apr. – 24 Apr. 2009, talk.
21. Suck, Maria; Nützmann, Gunnar & Lewandowski, Jörg (2009): Ground water exfiltration in a river oxbow. Vienna, Austria, European Geosciences Union General Assembly (EGU), 20 Apr. – 24 Apr. 2009, poster.
20. Nützmann, Gunnar & Lewandowski, Jörg (2009): Hydrological processes involved in groundwater-surface water exchange at a lowland river: measurements and modelling. Vienna, Austria, European Geosciences Union General Assembly (EGU), 20 Apr. – 24 Apr. 2009, talk.
19. Lewandowski, Jörg; Fleckenstein, Jan H.; Hoehn, Eduard; Nützmann, Gunnar; Radke, Michael; Saenger, Nicole & Schmidt, Christian (2009): Hyporheic network (Hyporheisches Netzwerk). Vienna, Austria, European Geosciences Union General Assembly (EGU), 20 Apr. – 24 Apr. 2009, poster.
18. Lewandowski, Jörg; Lischeid, Gunnar & Nützmann, Gunnar (2009): Hydrological and biogeochemical processes involved in groundwater-surface water exchange at a lowland river. Vienna, Austria, 2nd International Multidisciplinary Conference on Hydrology and Ecology: Ecosystems Interfacing with Groundwater and Surface Water, 20 Apr. – 23 Apr. 2009, talk.
17. Roskosch, Andrea; Hamann, Enrico; Nützmann, Gunnar; Hupfer, Michael & Lewandowski, Jörg (2009): Ecohydrological effects of *Chironomus plumosus* larvae on lake sediments. Concepción, Chile, 7th International Symposium on Ecohydraulics, 12 Jan. – 15 Jan. 2009, talk.
16. Roskosch, Andrea; Khalili, Arzhang; Hamann, Enrico; Buchert, Ralph & Lewandowski, Jörg (2009): Impacts of macrozoobenthos on hydrodynamic processes at sediment-water

interfaces. Nice, France, American Society of Limnology and Oceanography Aquatic Sciences Meeting (ASLO): A Cruise through Nice Waters, 26 Jan. – 30 Jan. 2009, talk.

15. Lewandowski, Jörg & Nützmann, Gunnar (2009): Biogeochemical processes involved in groundwater-surface water exchange at a lowland river. Nice, France, American Society of Limnology and Oceanography Aquatic Sciences Meeting (ASLO): A Cruise through Nice Waters, 26 Jan. – 30 Jan. 2009, talk.
14. Nützmann, Gunnar & Lewandowski, Jörg (2008): Modelling groundwater-surface water exchange on different scales: The river Spree example, NE Germany. San Francisco, Computational Methods in Water Resources (CMWR), 06 Oct. – 10 Oct. 2008, talk.
13. Lewandowski, Jörg & Nützmann, Gunnar (2008): Field study of groundwater-surface water interactions at the lowland River Spree (Germany). Vienna, Austria, European Geosciences Union General Assembly (EGU), 13 Apr. – 18 Apr. 2008, talk.
12. Roskosch, Andrea; Lewandowski, Jörg; Hupfer, Michael & Nützmann, Gunnar (2008): Impacts of Chironomus plumosus larvae on processes in lake sediments. St. John's, Newfoundland & Labrador, American Society of Limnology and Oceanography Summer Meeting (ASLO), 08 Jun. – 13 Jun. 2008, talk.
11. Lewandowski, Jörg & Nützmann, Gunnar (2008): Field study of groundwater-surface water interactions at the lowland River Spree (Germany). Vienna, Austria, General Assembly of the European Geosciences Union (EGU), 14 Apr. – 18 Apr. 2008, talk.
10. Lewandowski, Jörg & Nützmann, Gunnar (2007): Small-scale water- and nutrient-exchange between lowland River Spree (Germany) and adjacent groundwater. Lisbon, Portugal, 35th congress of the International Association of Hydrogeologists (IAH), 17 Sep. – 21 Sep. 2007, talk.
9. Roskosch, Andrea; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2007): Flow velocities and rates in burrows of *Chironomus plumosus* (Diptera: Chironomidae) in lake sediments. Warnemünde, Germany, 11th Workshop on Physical Processes in Natural Waters (PPNW), 03 Sep. – 06 Sep. 2007, talk.
8. Lewandowski, Jörg & Nützmann, Gunnar (2007): Small-scale water- and nutrient-exchange between lowland River Spree (Germany) and adjacent groundwater. Perugia, Italy, 24th congress of the International Union of Geodesy and Geophysics (IUGG), 02 Jul. – 13 Jul. 2007, talk.
7. Lewandowski, Jörg; Roskosch, Andrea; Hupfer, Michael & Nützmann, Gunnar (2007): Hydraulic and biogeochemical impacts of chironomids on nutrients. Christchurch, New Zealand, 6th International Symposium on Ecohydraulics, 19 Feb. 2007, talk.
6. Hupfer, Michael & Lewandowski, Jörg (2005): Retention and early diagenesis of phosphorus in the sediment of Lake Arendsee. Bled, Slovenia, 10th International Symposium on the Interactions between Sediments and Water of the International Association for Sediment & Water Science (IASWS), 28 Sep. – 02 Sep. 2005, talk.
5. Lewandowski, Jörg & Hupfer, Michael (2004): The effects of macrozoobenthos on spatial pore water heterogeneity and phosphorus cycling in lakes. Lahti, Finland, International Society of Limnology-Congress (SIL), 08 Aug. – 14 Aug. 2004, talk.
4. Lewandowski, Jörg & Hupfer, Michael (2003): Impact of macrozoobenthos on two-dimensional small-scale heterogeneity of pore water phosphorus concentrations in lake sediments. Carmona, Spain, 4th International Symposium on Phosphate in Sediments, 09 Sep. – 12 Sep. 2003, talk.
3. Laskov, Christine; Lewandowski, Jörg; Küsel, Kirsten & Hupfer, Michael (2003): Influence of submersed macrophytes on iron cycling in littoral sediment of eutrophic lakes. Monte Verita, Switzerland, Biogeochemical processes involving iron minerals in natural waters, 16 Nov. – 21 Nov. 2003, poster.
2. Lewandowski, Jörg & Hupfer, Michael (2002): Two-dimensional small-scale distribution of pore water phosphorus concentration in lake sediments. Banff, Canada, 9th International Symposium on the Interactions between Sediments and Water of the International Association for Sediment & Water Science (IASWS), 05 May – 10 May 2002, talk.

1. Schauser, Inke; Lewandowski, Jörg; Nürnberg, Gertrud & Hupfer, Michael (2001): A simple decision-support system for the choice of the most appropriate in-lake measure to influence the phosphorus retention of lake sediments. Madison, USA, North American Lake Management Society (NALMS), 21st annual international symposium, 07 Nov. – 09 Nov. 2001, talk.

Talks and posters presented on national meetings

78. Lewandowski, Jörg; Hölker, Franz; Rothe, Matthias; Baranov, Viktor, Hupfer, Michael (2022): Multiple impacts of *Chironomus plumosus* on freshwater lakes. Logonna Daoulas, France, Nereis Park, 22 – 26 Aug 2022, talk.
77. Reith, Christoph J.; Spahr, Stephanie; Posselt, Malte; Putschew, Anke and Lewandowski, Jörg (2022): The fate of trace organic compounds and their transformation products along specific hyporheic flow paths. Vienna, Austria, European Geosciences Union General Assembly (EGU), 23 – 27 May 2022, talk.
76. Lewandowski, Jörg; Jäger, Anna; Mehler, Franziska; Goldhammer, Tobias and Hupfer, Michael (2022). Significance of lacustrine groundwater discharge for the rapid eutrophication of formerly oligotrophic Lake Stechlin. Vienna, Austria, European Geosciences Union General Assembly (EGU), 23 – 27 May 2022, talk.
75. Amann, Finn; Reith, Christoph J.; Lewandowski, Jörg and Hinkelmann, Reinhard (2022). Simulating TrOCs concentrations along specific hyporheic flowpaths using an integral surface water-groundwater model. Vienna, Austria, European Geosciences Union General Assembly (EGU), 23 – 27 May 2022, talk.
74. Peters, Kristin; Kiesel, Jens; Grantz, Sven; Strehlow, Karen; Lewandowski, Jörg and Fohrer, Nicola (2022): Untersuchung der Temperaturdynamik in einem Mittelgebirgseinzugsgebiet mit faseroptischer Temperaturmessung. Munich, Germany, Tag der Hydrologie, 22. – 23. Mar. 2022, poster.
73. Köhler, Jan; Harpenslager, Sarah Faye & Lewandowski, Jörg (2021): Rückhalt von Wasser und Nährstoffen durch Makrophyten in einem Flachlandfluss – Sinn und Unsinn der Entkrautung (Retention of water and nutrients by macrophytes in a lowland river - sense and nonsense of mowing macrophytes, in German). Leipzig, DGL Jahrestagung, 27.09. - 01.10.2021, talk.
72. Kronsbein, Anna Lena*, Schaper, Jonas*; Lewandowski, Jörg & Hilt, Sabine (2021): Benthische Organismen beeinflussen die Redoxzonierung von littoralen Sedimenten: Auswirkungen auf den Abbau organischer Spurenstoffe während der Uferfiltration (Benthic organisms influence the redox zonation of littoral sediments: Effects on the degradation of organic trace substances during bank filtration, in German). Leipzig, DGL Jahrestagung, 27.09. - 01.10.2021, talk.
71. Lewandowski, Jörg; Meinikmann, Karin and Nützmann, Gunnar (2018): Grundwasserzustrom und grundwasserbürtiger Nährstoffimport in Seen. Bochum, Germany, 26. Meeting of the Section Hydrogeology in the DGGV e. V., 21 Mar. – 24 Mar. 2018, talk.
70. Meinikmann, Karin; Nützmann, Gunnar; Hupfer, Michael and Lewandowski, Jörg (2017): Grundwasserzustrom als Eutrophierungsquelle. Cottbus, Germany, Annual Meeting of the German Limnological Society (DGL), 25 Sep. – 29 Sep. 2017, talk.
69. Meinikmann, Karin & Lewandowski, Jörg (2016): Groundwater, the main external source of P to Lake Arendsee. Delmenhorst, DFG Rundgespräch Submariner Grundwasseraustritt – ein unsichtbarer Hotspot des Globalen Wandels, 12 Jan. – 13 Jan. 2016, poster.
68. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska & Nützmann, Gunnar (2016): Review: Lacustrine groundwater discharge (LGD) – the disregarded component of lake nutrient budgets. Delmenhorst, DFG Rundgespräch Submariner Grundwasseraustritt – ein unsichtbarer Hotspot des Globalen Wandels, 12 Jan. – 13 Jan. 2016, poster.

67. Mehrtens, Anne; Jäger, Anna; Lewandowski, Jörg & Munz, Matthias (2015): Nutrient turnover along flow paths in the hyporheic interstitial of a lowland stream in North Germany (in German, Nährstoffumsatz entlang von Transportpfaden im hyporheischen Interstitial eines norddeutschen Tieflandbachs). Essen, DGL Jahrestagung, 21 Sep. – 25 Sep. 2015, poster.
66. Baranov, Viktor; Krause, Stefan; Lewandowski, Jörg & Romeijn, Paul (2015): Novel method to study effects of benthic insects on lake sediment respiration. Frankfurt am Main, Deutsche Gesellschaft für allgemeine und angewandte Entomologie, 02 Mar. – 05 Mar. 2015, poster.
65. Röper, Tania; Greskowiak, Janek; Pöschke, Franziska; Lewandowski, Jörg & Massmann, Gudrun (2014): Identifikation, Quantifizierung und Charakterisierung von submarinen Grundwasseraustritten auf der Insel Spiekeroog, Norddeutschland (Identification, quantification and characterization of submarine groundwater discharge at the island Spiekeroog, in German). Bayreuth, Germany, Tagung der Fachsektion Hydrogeolgie der DGG, 28.05.2014 – 31.05.2014, talk.
64. Cécile Périllon, Franziska Pöschke, Jörg Lewandowski, Sabine Hilt (2014): Groundwater discharge affects periphyton – submerged macrophyte interactions in the littoral of an oligotrophic lake. DGL-Jahrestagung Magdeburg, 29. Sept. bis 3. Okt. 2014, Vortrag, Session S12 Aquatische Grenzzonen.
63. Jörg Lewandowski, Michael Hupfer, Gunnar Nützmann, Stefan Krause (2014): Bausteine für ein konzeptionelles Prozessverständnis aquatischer Grenzzonen (Components of a conceptual process understanding of aquatic interfaces, in German). DGL-Jahrestagung Magdeburg, 29. Sept. bis 3. Okt. 2014, Vortrag, Session S12 Aquatische Grenzzonen.
62. Lewandowski, Jörg; Meinikmann, Karin & Nützmann, Gunnar (2013): Grundwasser, die vernachlässigte Komponente in Nährstoffbilanzen von Seen (Groundwater, the disregarded component in nutrient budgets of lakes, in German). Arendsee, Germany, Lake restoration workshop, 18 Mar. – 22 Mar. 2013, talk.
61. Meinikmann, Karin; Lewandowski, Jörg; Nützmann, Gunnar & Hupfer, Michael (2013): Einfluss des Grundwassers auf die Wasser- und Nährstoffbilanz des Arendsees (Impact of groundwater on the water and nutrient budget of Lake Arendsee, in German). Arendsee, Germany, Lake restoration workshop, 18 Mar. – 22 Mar. 2013, talk.
60. Hupfer, Michael; Herzog, Christiane; Neumann, Catherin & Lewandowski, Jörg (2013): Phosphorkreislauf in einem See: Ermittlung von Poolgrößen und vertikalen Fluxen als Voraussetzung für die Optimierung von Maßnahmen zur Phosphor-Verminderung im Wasserkörper (P cycling in a lake: Determination of pools and vertical fluxes as prerequisite for the optimization of measures to reduce P in the water body, in German). Arendsee, Germany, Lake restoration workshop, 18 Mar. – 22 Mar. 2013, talk.
59. Lehr, Christian; Lewandowski, Jörg & Lischeid, Gunnar (2013): Auswirkungen eines veränderten Gewässerverlaufs auf Grundwasserdynamik (Impacts of an altered stream course on groundwater dynamics, in German). Bern, Tag der Hydrologie (Hydrology day), 4 Apr. – 6 Apr. 2013, poster.
58. Lewandowski, Jörg (2013): Real time Ecohydrology. Berlin, Workshop Real time Ecohydrology, 7 Mar. 2013, talk.
57. Nützmann, Gunnar; Pöschke, Franziska; Lewandowski, Jörg (2013): Wasserhaushalt des Stechlinsee-EZG – unter besonderer Berücksichtigung des Grundwassers (Hydrologic budget of the catchment of Lake Stechlin – with a focus on groundwater, in German). Neuglobsow, Germany, Atmospheric-terrestric-aquatic coupling: Stechlin-Workshop, 12 Mar. – 13 Mar. 2013, talk.
56. Pöschke, Franziska; Lewandowski, Jörg; Nützmann, Gunnar (2013): Austauschprozesse zwischen Grund- und Seewasser am Stechlinsee (Groundwater-lake water exchange at Lake Stechlin, in German). Neuglobsow, Germany, Atmospheric-terrestric-aquatic coupling: Stechlin-Workshop, 12 Mar. – 13 Mar. 2013, talk.

55. Lewandowski, Jörg; Pöschke, Franziska; Meinikmann, Karin; Nützmann, Gunnar (2013): Grundwasser – Die übersehene Komponente in Nährstoffbilanzen von Seen (Groundwater – the missed component in nutrient budgets of lakes, in German). Neuglobsow, Germany, Atmospheric-terrestric-aquatic coupling: Stechlin-Workshop, 12 Mar. – 13 Mar. 2013, talk.
54. Lewandowski, Jörg; Pöschke, Franziska; Meinikmann, Karin; Ruhtz, Thomas; Engelhardt, Christof; Kirillin, Georgiy; Dämpfling, Hauke & Nützmann, Gunnar (2013): Infrarot-Luftaufnahmen zur Lokalisierung von Grundwasserzustrom in Seen (Measurement of airborne thermal infrared radiation to localize lacustrine groundwater discharge, in German). Potsdam, Germany, Annual meeting of the German Limnological Society (DGL), 09.09. – 13.09.2013, talk.
53. Lehr, Christian; Lewandowski, Jörg & Lischeid, Gunnar (2013): Effects of a restorated stream channel on groundwater dynamics. Leipzig, Germany, 3. Workshop of the German Hyporheic Network, 07.10.2013 – 09.10.2013, poster.
52. Slaby, Maria; Lewandowski, Jörg & Nützmann, Gunnar (2013): 2D vertikal-ebene Modellierung der Grundwasser-See-Interaktion – Einfluss von Durchlässigkeit, Porosität und Anisotropie der Uferzone (2D vertical modelling of groundwater lake interactions – Impact of hydraulic conductivity, porosity and anisotropy of the near-shore zone, in Berman). Leipzig, Germany, 3. Workshop of the German Hyporheic Network, 07.10.2013 – 09.10.2013, talk.
51. Pöschke, Franziska; Lewandowski, Jörg; Nützmann, Gunnar & Schirmer, Mario (2013): Lacustrine groundwater discharge (LGD): Lake Stechlin. Leipzig, Germany, 3. Workshop of the German Hyporheic Network, 07.10.2013 – 09.10.2013, poster.
50. Lewandowski, Jörg (2013): The heat-pulse sensor. Leipzig, Germany, 3. Workshop of the German Hyporheic Network, 07.10.2013 – 09.10.2013, practical presentation.
49. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska & Nützmann, Gunnar (2013): Vergleich ungleicher Grenzzonen: Die hyporheische Zone, die Übergangszone Grundwasser-See und die Übergangszone Grundwasser-Ozean (Comparison of unequal interfaces: the hyporheic zone, the groundwater-lake interface and the groundwater-ocean interface, in German). Leipzig, Germany, 3. Workshop of the German Hyporheic Network, 07.10.2013 – 09.10.2013, talk.
48. Lewandowski, Jörg; Meinikmann, Karin; Pöschke, Franziska & Nützmann, Gunnar (2012): Grundwasser – eine oft übersehene Komponente in Nährstoffbilanzen von Seen (Groundwater – a disregarded component in nutrient budgets of lakes, in German). Koblenz, Germany, Annual meeting of the German Limnological Society (DGL), 24 Sep. – 28 Sep. 2012, talk.
47. Meinikmann, Karin; Lewandowski, Jörg; Nützmann, Gunnar & Hupfer, Michael (2012): Quantifizierung von grundwasserbürtigem Phosphor als maßgeblicher Eutrophierungsfaktor in Seen (Quantification of groundwater-borne phosphorus as major eutrophication cause, in German). Koblenz, Germany, Annual meeting of the German Limnological Society (DGL), 24 Sep. – 28 Sep. 2012, talk.
46. Hupfer, Michael; Jordan, Sylvia; Lewandowski, Jörg; Herzog, Christiane & Kleeberg, Andreas (2012): Phosphor-Akkumulation und Sauerstoff-Verbrauch im Hypolimnion: Finden die Prozesse während oder nach der Sedimentation statt? (Phosphorus accumulation and oxygen consumption in the hypolimnion: Are the processes occurring during or after sedimentation?, in German). Koblenz, Germany, Annual meeting of the German Limnological Society (DGL), 24 Sep. – 28 Sep. 2012, talk.
45. Sacher, Andrea; Meinikmann, Karin; Graumnitz, Stephanie; Piekarski, Jens; Hupfer, Michael & Lewandowski Jörg (2012): Quantifizierung der Phosphoreinträge in den Arendsee aus oberirdischen Zuflüssen (Quantification of phosphorus import into Lake Arendsee by surface inflows, in German). Koblenz, Germany, Annual meeting of the German Limnological Society (DGL), 24 Sep. – 28 Sep. 2012, poster.

44. Brothers, Soren; Köhler, Jan; Hilt, Sabine; Attermeyer, Katrin; Casper, Peter; Grossart, Hans-Peter; Kaupenjohann, Martin; Lewandowski, Jörg; Mehner, Thomas; Meyer, Nils; Meyer, Steffi & Nützmann, Gunnar (2011): The effects of plant community structure on carbon cycling in shallow lakes: A TerraLac perspective. Freising, Germany, Annual meeting of the German Limnological Society (DGL), 12 Sep. – 15 Sep. 2011, talk.
43. Hilt, Sabine; Attermeyer, Katrin; Brauns, Mario; Brothers, Soren; Casper, Peter; Grossart, Hans-Peter.; Köhler, Jan; Lewandowski, Jörg; Nützmann, Gunnar; Scharnweber, Kristin; Syväranta, Jari; & Mehner, Thomas (2011): Effekte terrestrischer Kohlenstoff-Einträge auf Flachseen. Erste Ergebnisse des TERRALAC-Experiments (Impacts of terrestrial carbon input on shallow lakes. First results of the TERRALAC experiment, in German). Freising, Germany, Annual meeting of the German Limnological Society (DGL), 12 Sep. – 15 Sep. 2011, talk.
42. Lewandowski, Jörg; Cabezas, Alvaro & Nützmann, Gunnar (2010): Hydrologische und biogeochemische Prozesse in der Grenzzone zwischen Aquifer und Flachlandfluss Spree (Hydrological and biogeochemical processes at the interface of the lowland River Spree and the adjacent aquifer, in German). Tübingen, Germany, Conference of the Hydrogeology Section of the German Society for Geosciences (FH-DGG), 12 May – 16 May 2010, talk.
41. Angermann, Lisa; Lewandowski, Jörg; Fleckenstein, Jan H.; Krause, Stefan & Nützmann, Gunnar (2010): Einblicke in die Hydrologie der hyporheischen Zone - *in situ* Messungen liefern Erkenntnisse über kleinräumige Fließmuster (Insights into the hydrology of the hyporheic zone. *In situ* measurements reveal the small-scale flow pattern, in German). Tübingen, Germany, Conference of the Hydrogeology Section of the German Society for Geosciences (FH-DGG), 12 May – 16 May 2010, talk.
40. Jordan, Sylvia; Ebeling, Christian; Lewandowski, Jörg & Hupfer, Michael (2010): Langzeitexperiment zum Einfluss von Chironomiden-Larven auf die Phosphor-Festlegung im Sediment (Long-term experiment to study the impact of chironomid larvae on the P fixation in sediment, in German). Bayreuth, Germany, Annual meeting of the German Limnological Society (DGL), 27 Sep. – 01 Oct. 2010, poster.
39. Meinikmann, Karin; Lewandowski, Jörg & Nützmann, Gunnar (2010): Grundwasser - Ein vernachlässigbarer Eintragspfad für den Nährstoffhaushalt von Seen (Groundwater - A disregardable input path in nutrient balances of lakes? In German)? Bayreuth, Germany, Annual meeting of the German Limnological Society (DGL), 27 Sep. – 01 Oct. 2010, talk.
38. Rudnick, Sebastian; Nützmann, Gunnar; Fleckenstein, Jan H. & Lewandowski, Jörg (2010): Charakterisierung der Grundwasser-Oberflächenwasser Wechselwirkung zweier eutropher Flachseen in Brandenburg (Characterization of groundwater-surface water interactions of two shallow eutrophic lakes in Brandenburg, in German). Bayreuth, Germany, Annual meeting of the German Limnological Society (DGL), 27 Sep. – 01 Oct. 2010, talk.
37. Lewandowski, Jörg; Pöschke, Franziska & Nützmann, Gunnar (2010): Kleinskalige biogeochemische Heterogenität in einem Auenaquifer (Small-scale biogeochemical heterogeneity in a floodplain aquifer, in German). Bayreuth, Germany, Annual meeting of the German Limnological Society (DGL), 27 Sep. – 01 Oct. 2010, talk.
36. Lewandowski, Jörg (2010): Probenahmetechniken und Messmethoden für Hydrologie und Biogeochemie der hyporheischen Zone (Sampling techniques and measurement methods for hydrology and biogeochemistry in the hyporheic zone, in German). Berlin, Germany, 2nd Workshop Hyporheic Network, 22 Nov. – 24 Nov. 2010, talk.
35. Angermann, Lisa; Lewandowski, Jörg; Nützmann, Gunnar & Fleckenstein, Jan H. (2010): Heat Pulse Sensor - Bestimmung kleinskaliger Fließrichtungen in 3D (Heat pulse sensor - 3 dimensional measurement of small-scale flow direction in the hyporheic zone, in German). Berlin, Germany, 2nd Workshop Hyporheic Network, 22 Nov. – 24 Nov. 2010, talk.
34. Lewandowski, Jörg; Pöschke, Franziska & Nützmann, Gunnar (2010): Kleinskalige biogeochemische Heterogenität in einem Auenaquifer (Small-scale biogeochemical

heterogeneity in a floodplain aquifer, in German). Berlin, Germany, 2nd Workshop Hyporheic Network, 22 Nov. – 24 Nov. 2010, talk.

33. Lewandowski, Jörg & Nützmann, Gunnar (2009): Geochemische Umsatzprozesse in der hyporheischen Zone eines Flachlandflusses und im angrenzenden Auenaquifer (Geochemical turnover processes in the hyporheic zone of a lowland river and the adjacent aquifer, in German). Berlin, Germany, Initial Workshop Hyporheic Network, 14 Dec. – 15 Dec. 2009, talk.
32. Angermann, Lisa; Lewandowski, Jörg; Nützmann, Gunnar & Fleckenstein, Jan H. (2009): Kleinskalige Fließpfade im hyporheischen Interstitial (Small-scale flow paths in the hyporheic interstitial, in German). Berlin, Germany, Initial Workshop Hyporheic Network, 14 Dec. – 15 Dec. 2009, talk.
31. Hamann, Enrico; Greskowiak, Janek; Roskosch, Andrea; Jordan, Sylvia; Hupfer, Michael; Lewandowski, Jörg & Nützmann, G. (2009): Bilanzierung des durch Bioirrigation beeinflussten Phosphorumsatzes mit einem reaktiven Multikomponenten-Stofftransportmodell (Balance of phosphorus turnover under the impact of bioirrigation with a reactive multicomponent transport model, in German). Oldenburg, Germany, Annual meeting of the German Limnological Society (DGL), 28 Sep. – 02 Oct. 2009, talk.
30. Roskosch, Andrea; Dziallas, Claudia; Grossart, Hans-Peter; Hupfer, Michael & Lewandowski, Jörg (2009). Die Auswirkung von Bioirrigation auf mikrobielle Gemeinschaften und Prozesse in limnischen Sedimenten (Impacts of bioirrigation on the microbial community and processes in limnetic sediments, in German). Oldenburg, Germany, Annual meeting of the German Limnological Society (DGL), 28 Sep. – 02 Oct. 2009, talk.
29. Lewandowski, Jörg; Fleckenstein, Jan H.; Hoehn, Eduard; Kalbus, Edda; Nützmann, Gunnar; Radke, Michael; Saenger, Nicole & Schmidt, Christian (2009): Hyporheisches Netzwerk (Hyporheic network, in German). Oldenburg, Germany, Annual meeting of the German Limnological Society (DGL), 28 Sep. – 02 Oct. 2009, poster.
28. Angermann, Lisa; Fleckenstein, Jan H.; Lewandowski, Jörg & Nützmann, Gunnar (2009): Eine Methode zur Bestimmung kleinskaliger Fließrichtungen und Geschwindigkeiten im hyporheischen Interstitial (A method to determine small-scale flow direction and flow velocity in the hyporheic interstitial, in German). Oldenburg, Germany, Annual meeting of the German Limnological Society (DGL), 28 Sep. – 02 Oct. 2009, talk.
27. Schwoch, Claudia; Nützmann, Gunnar & Lewandowski, Jörg (2009): Geochemische Heterogenität im Grundwasserleiter einer Aue an der Grenzfläche zum Fluss (Geochemical heterogeneity in the aquifer of a floodplain at the interface to the river, in German). Oldenburg, Germany, Annual meeting of the German Limnological Society (DGL), 28 Sep. – 02 Oct. 2009, poster.
26. Lewandowski, Jörg & Hupfer, Michael (2008): Wirkt sich Meromixie positiv oder negativ auf die Trophie aus? Fallbeispiel Burgsee (Does meromixis have a positive or negative impact on lake trophy? Case study Lake Burgsee, in German). Konstanz, Germany, Annual meeting of the German Limnological Society (DGL), 22 Sep. – 26 Sep. 2008, talk.
25. Ackermann, Juliane; Nützmann, Gunnar & Lewandowski, Jörg (2008): Kleinskalige Variabilität der SRP-Konzentrationen im hyporheischen Interstitial des Flachlandflusses Spree (Small-scale variability of SRP concentrations in the hyporheic interstitial of the lowland River Spree, in German). Konstanz, Germany, Annual meeting of the German Limnological Society (DGL), 22 Sep. – 26 Sep. 2008, poster.
24. Seibt, Christian; Hamann, Enrico; Roskosch, Andrea; Nützmann, Gunnar & Lewandowski, Jörg (2008): Modellierung der von Chironomiden induzierten Austauschprozesse zwischen Sediment und Freiwasser (Modelling of chironomid-induced exchange across the sediment-water interface, in German). Konstanz, Germany, Annual meeting of the German Limnological Society (DGL), 22 Sep. – 26 Sep. 2008, poster.

23. Roskosch, Andrea; Jordan, Sylvia; Hette, Nicolas; Buchert, Ralph; Khalili, Arzhang; Morad, Mohammad Reza; Nützmann, Gunnar; Hupfer, Michael & Lewandowski, Jörg (2008): Die Wirkung von *Chironomus plumosus* (Diptera: Chironomidae) auf Transportprozesse in limnischen Sedimenten (The impact of *Chironomus plumosus* (Diptera: Chironomidae) on transport processes in limnetic sediments, in German). Konstanz, Germany, Annual meeting of the German Limnological Society (DGL), 22 Sep. – 26 Sep. 2008, talk.
22. Buchert, Ralph; Roskosch, Andrea; Wilke, Florian; Apostolova, Ivalya; Brenner, Winfried; Lewandowski, Jörg & Khalili, Arzhang (2008): Untersuchungen zum Einfluss von *Chironomus plumosus* auf die Hydrodynamik in Seesedimenten mittels PET/CT (Investigations of the impact of *Chironomus plumosus* on the hydrodynamic of lake sediments with PET/CT, in German). Leipzig, Germany, 46th annual meeting of the German Society of Nuclear Medicine, 23 Apr. – 26 Apr. 2008, poster.
21. Roskosch, Andrea; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2007): Messung von Fließgeschwindigkeiten und Pumpraten in Wohnröhren von *Chironomus plumosus*. (Measurement of flow velocity and pumping rates in burrows of *Chironomus plumosus*, in German). Münster, Germany, Annual meeting of the German Limnological Society (DGL), 24 Sep. – 28 Sep. 2007, poster.
20. Nogeitzig, Alexander; Nützmann, Gunnar; Lewandowski, Jörg & Hupfer, Michael (2007): Reaktive Transport-Modellierung des Phosphor-Kreislaufs in Seesedimenten unter dem Einfluss von Bioirrigation (am Beispiel der benthisch lebenden Mückenlarve *Chironomus plumosus*) (Reactive transport modelling of the phosphorus cycle in lake sediments under the impact of bioirrigation. Case study with the benthic larvae *Chironomus plumosus*, in German. Münster, Germany, Annual meeting of the *German* Limnological Society (DGL), 24 Sep. – 28 Sep. 2007, poster.
19. Lewandowski, Jörg; Laskov, Christine & Hupfer, Michael (2006): Räumliche Verteilungsmuster der Porenwasserkonzentrationen in Sedimenten mit komplexen Verläufen der oxisch/anoxischen Grenzzone aufgrund der Besiedlung mit Makrophyten oder Makrozoobenthos (Spatial pattern of pore water nutrient concentrations in sediments with complex pattern of oxic/anoxic interfaces due to colonization with macrophytes and macrozoobenthos, in German). Dresden, Germany, Annual meeting of the German Limnological Society (DGL), 25 Sep. – 29 Sep. 2006, talk.
18. Laskov, Christine; Herzog, Christiane; Lewandowski, Jörg & Hupfer, Michael (2005): Miniaturisierte photometrische Methoden für die Porenwasseranalytik (Miniaturized photometric methods for pore water analysis, in German). Bad Mergentheim, Germany, 71st annual meeting of the Division Water Chemistry Society (WG) of the German Chemical Society (GDCh), 02 May – 04 May 2005, talk.
17. Lewandowski, Jörg & Hupfer, Michael (2004): Auswirkungen von Makrozoobenthos auf den Phosphatumsatz und -transport in limnischen Sedimenten (Effects of macrozoobenthos on phosphate-transport and -turnover in limnetic sediments, in German). Potsdam, Germany, Annual meeting of the German Limnological Society (DGL), 20 Sep. – 24 Sep. 2004, talk.
16. Hupfer, Michael; Herzog, Christiane & Lewandowski, Jörg (2004): Langzeituntersuchungen zur Diagenese und Retention von Phosphor im Arendsee (Long-term investigations of diagenesis and retention of phosphorus in Lake Arendsee, in German). Potsdam, Germany, Annual meeting of the German Limnological Society (DGL), 20 Sep. – 24 Sep. 2004, talk.
15. Warnecke, Carsten; Lewandowski, Jörg & Hupfer, Michael (2004): Tagesgänge von Phosphat und gelöstem Eisen an der Sedimentoberfläche von Litoralstandorten und in der Rhizosphäre submerser Makrophyten (Diurnal pattern of phosphate and dissolved iron at the sediment surface in the littoral and in the rhizosphere of submerse macrophytes, in German). Potsdam, Germany, Annual meeting of the German Limnological Society (DGL), 20 Sep. – 24 Sep. 2004, poster.

14. Lewandowski, Jörg; Hupfer, Michael & Ehwald, Rudolf (2003): Entwicklung von Mikrodialysesonden zur Erfassung von schnell verlaufenden stofflichen Änderungen in Grenz- und Übergangszonen (Development of microdialysis sampler to measure fast changes of pore water composition at the sediment-water interface, in German). Köln, Germany, Annual meeting of the German Limnological Society (DGL), 29 Sep. – 03 Oct. 2003, talk.
13. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2002): Untersuchungsprogramme im Vorfeld von Seenrestaurierungen (Investigation programs prior to lake restoration measures, in German). Braunschweig, Germany, Annual meeting of the German Limnological Society (DGL), 30 Sep. – 04 Oct. 2002, talk.
12. Schauser, Inke; Lewandowski, Jörg; Strahl, Gerald; Brüggemann, Rainer & Hupfer, Michael (2002): Entscheidungsunterstützungssystem für die Auswahl eines auf die Phosphor-Retention im Sediment wirkenden seeinternen Verfahrens (Decision support system for the selection of appropriate in-lake measures to influence the phosphorus retention in sediments, in German). Braunschweig, Germany, Annual meeting of the German Limnological Society (DGL), 30 Sep. – 04 Oct. 2002, poster.
11. Hupfer, Michael; Schauser, Inke & Lewandowski, Jörg (2002): Vorgänge im Sediment und ihre Bedeutung für den Erfolg seeinterner Verfahren. Erfahrungen und Schlussfolgerungen (Sediment processes and their importance for success of in-lake measures. Experiences and consequences, in German). Blossin, Germany, Workshop Lake Therapy, 18 Mar. – 20 Mar. 2002, talk.
10. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2002): Auswahl seeinterner Verfahren zur Beeinflussung der P-Retention von Seesedimenten: I. Untersuchungsmethoden (Selection of in-lake measures to influence the phosphorus retention in sediments: I. Investigation methods, in German). Blossin, Germany, Workshop Lake Therapy, 18 Mar. – 20 Mar. 2002, talk.
9. Schauser, Inke; Lewandowski, Jörg & Hupfer, Michael (2002): Auswahl seeinterner Verfahren zur Beeinflussung der P-Retention von Seesedimenten: II. Einfache Entscheidungshilfe (Selection of in-lake measures to influence the phosphorus retention in sediments: II. Simple decision support, in German). Blossin, Germany, Workshop Lake Therapy, 18 Mar. – 20 Mar. 2002, talk.
8. Lewandowski, Jörg; Schauser, Inke; Rüter, Kristina & Hupfer, Michael (2001): Räumliche Heterogenität der SRP-Porenwasserkonzentrationen in Sedimenten (Spatial heterogeneity of SRP concentrations of pore waters in sediments, in German). Kiel, Germany, Annual meeting of the German Limnological Society (DGL), 17 Sep. – 21 Sep. 2001, talk.
7. Schauser, Inke; Lewandowski, Jörg & Hupfer, Michael (2001): Einfaches Entscheidungssystem für die Auswahl des am besten geeigneten seeinternen Verfahrens zur Beeinflussung der P-Retention von Seesedimenten (Simple decision-support system for the choice of the most appropriate in-lake measure to influence the phosphorus retention of sediments, in German). Kiel, Germany, Annual meeting of the German Limnological Society (DGL), 17 Sep. – 21 Sep. 2001, talk.
6. Hupfer, Michael; Lewandowski, Jörg & Rönicke, Helmut (2000): Langzeitwirkung einer seeinterner Fällung mit Aluminiumsulfat auf den Phosphor-Haushalt eines Kiesbaggersees (Long-term effect of in-lake precipitation with aluminium sulfate on the phosphorus cycle of a flooded gravel pit, in German). Magdeburg, Germany, Annual meeting of the German Limnological Society (DGL), 18 Sep. – 22 Sep. 2000, talk.
5. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2000): Langzeitwirkung jahrzehntelang wiederholter seeinterner Fällungen mit Aluminiumsulfat auf den Phosphor-Haushalt eines durchflossenen polymiktischen Sees (Long-term effect of repeated in-lake precipitation with aluminium sulfate on the phosphorus cycle of a polymictic lake, in German). Magdeburg, Germany, Annual meeting of the German Limnological Society (DGL), 18 Sep. – 22 Sep. 2000, talk.

4. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2000): Langfristige Retentionswirkung einer Al-Fällung im Süßen See. Teil 1: Feld- und Laborversuche (Long-term retention of P-precipitation with aluminum in Lake Süßer See. Part I: Field and laboratory experiments, in German). Bad Herrenalb, Germany, 7th Early Diagenesis Workshop, 11 Sep. – 14 Sep. 2000, talk.
3. Schauser, Inke; Lewandowski, Jörg & Hupfer, Michael (2000): Langfristige Retentionswirkung einer Al-Fällung im Süßen See. Teil 2: Modellierung (Long-term retention of P-precipitation with aluminum in Lake Süßer See. Part II: Modelling, in German). Bad Herrenalb, Germany, 7th Early Diagenesis Workshop, 11 Sep. – 14 Sep. 2000, talk.
2. Schauser, Inke; Lewandowski, Jörg & Hupfer, Michael (1999): Veränderung der Phosphor Diagenese und Retention durch seeinterne Maßnahmen. Konzept eines BMBF-Projekts (Change of phosphorus diagenesis and retention by in-lake measures. Concept of a BMBF project, in German). Rostock, Germany, Annual meeting of the German Limnological Society (DGL), 27 Sep. – 01 Oct. 1999, poster.
1. Schauser, Inke; Lewandowski, Jörg & Hupfer, Michael (1999): Auswirkungen von Restaurierungsverfahren auf Phosphor-Umsatz- und Transportprozesse im Sediment. Konzept eines BMBF-Projekts (Effects of restoration techniques on phosphorus turnover and transport processes in sediment. Concept of a BMBF project, in German). Neuglobsow, Germany, 6th Early Diagenesis Workshop, 12 Apr. – 16 Apr. 1999, poster.

Other talks

23. Lewandowski, Jörg (2022): Grundwasser-Oberflächenwasser Interaktionen. Berlin, Germany, GIZ Delegation aus Usbekistan und Kasachstan, 03. June 2022.
22. Lewandowski, Jörg (2022): Klimawandel, Dürre, Wassermangel: Gefahren für Ökosysteme, Grundwasser und Wasserversorgung. Berlin, Germany, GIZ Delegation aus Usbekistan und Kasachstan, 03. June 2022.
21. Lewandowski, Jörg (2022): Bragfost Connect AvH.
20. Lewandowski, Jörg; Schaper, Jonas L.*; Jäger, Anna* and Meinikmann, Karin* (2019): Anthropogenic organic micropollutants in urban water bodies. Berlin, Science Meets Soulbottles, 20.08.2019, talk.
19. Lewandowski , Jörg; Schaper, Jonas; Jäger, Anna and Meinkmann, Karin (2018): Anthropogene organische Spurenstoffe in urbanen Oberflächengewässern. Berlin, Germany, Dialog am Müggelsee, 11 Dec. 2018.
18. Schaper, Jonas; Jäger, Anna; Lewandowski, Jörg and Nützmann, Gunnar (2017): Unsichtbare Spuren in der Erpe – anthropogene Spurenstoffe in einem urbanen Oberflächengewässer (in German: Unvisible trails in the River Erpe – anthropogenic micropollutants in an urban surface water). Waldesruh, 20 Jan. 2017, talk.
17. Lewandowski, Jörg (2015): O-18 und Deuterium als Tracer in der Ökohydrologie. HU Berlin, Habilitationsvortrag, 15. Jan. 2015, talk.
16. Lewandowski, Jörg (2012): Groundwater surface water interactions: Coupling of Hydrodynamic and Biogeochemical Processes. Groß Väter, Germany, Kick-off meeting International Graduate School Aqualink, 17 Sep. – 20 Sep. 2012, talk.
15. Lewandowski, Jörg; Hölker, Franz; Adrian, Rita; Brand, Dellwig, Olaf; Andreas; Grossart, Hans-Peter; Hupfer, Michael; Jürgens, Klaus; Lorke, Andreas; Meile, Christof; Mooij, Wolf M.; Nützmann, Gunnar; Stief, Peter & Vanni, Mike (2012): The underestimated ecological importance of benthic invertebrates in lake ecosystems: An interdisciplinary research agenda to erode a long-lasting paradigm in limnology (TUBE). Berlin, IGB Science Day, 08 Nov. 2012, talk.
14. Pöschke, Franziska; Sacher, Andrea & Lewandowski, Jörg (2012): Schwanenfutter in Alcatraz – Über das Arbeiten auf einem Hochsicherheitssee (Swan food in Alcatraz – Working on a high-security lake). Berlin, Food & Brain, 16 Oct. 2012, talk.

13. Pöschke, Franziska; Sacher, Andrea; Lewandowski, Jörg (2012): Lokalisierung von Grundwasserzutritten im Concordiasee bei Nachterstedt (Localization of groundwater exfiltration zones in Lake Concordia, Nachterstedt, in German). Lausitzer und Mitteldeutsche Braunkohleverwertungsgesellschaft (LMBV), Leipzig, Germany, Final project presentation, 16 Aug. 2012, talk.
12. Lewandowski, Jörg & Nützmann, Gunnar (2010): Gefährdet Salzwasseraufstieg Gewässerökosysteme und Wasserversorgung im Nordostdeutschen Tiefland? Untersuchungsergebnisse aus Freienbrink (Does ascent of saline waters endanger ecosystems and water supply in the north-eastern German lowlands? Results from the study site Freienbrink, in German). Berlin, Germany, IGB Department Ecohydrology C-olloquium, 01 Mar. 2010, talk.
11. Cabezas, Alvaro; Lewandowski, Jörg & Nützmann, Gunnar (2009): Nutrient turnover at the upper sediment layer of a reconnected oxbow lake: Hydrology versus substrate. Berlin, Germany, IGB, Workshop Investigations of the Müggelspree - results and future plans, 24 Nov. 2009, talk.
10. Lewandowski, Jörg & Nützmann, Gunnar (2009): Hydrological and biogeochemical processes in the floodplain's aquifer and in the hyporheic zone. Berlin, Germany, IGB, Workshop Investigation of the Müggelspree - results and future plans, 24 Nov. 2009, talk.
9. Lewandowski, Jörg; Nützmann, Gunnar & Hupfer, Michael (2009): Eintragspfad Grundwasser – Fallbeispiel Arendsee (Input path groundwater. Case study Lake Arendsee, in German). Magdeburg, Germany, Meeting of Helmholtz Centre for Environmental Research (UFZ), Department of Lake Research and IGB Cross Cutting Research Domain Aquatic Boundaries and Linkages, 09 Jun. 2009, talk.
8. Lewandowski, Jörg; Roskosch, Andrea; Hupfer, Michael & Nützmann, Gunnar (2009): Einfluss von Makrozoobenthos auf Stofftransport und P-Umsatz in Seesedimenten – Innovative Messmethoden (Impacts of macrozoobenthos on transport and P turnover in lake sediments. Innovative measurement methods, in German). Magdeburg, Germany, Meeting of Helmholtz Centre for Environmental Research (UFZ), Department of Lake Research and IGB Cross Cutting Research Domain Aquatic Boundaries and Linkages, 09 Jun. 2009, talk.
7. Lewandowski, Jörg; Kaboth, Uwe; Nützmann, Gunnar & Günther, Matthias (2009): Gefährdet Salzwasseraufstieg Gewässerökosysteme und Wasserversorgung im Nordostdeutschen Tiefland (Does ascent of saline waters endanger ecosystems and water supply in the north-eastern German lowlands? In German)? Hanover, Germany, Leibniz Institute for Applied Geophysics (LIAG), Workshop Research Drilling 2011, 06 May 2009, talk.
6. Lewandowski, Jörg (2009): Grenzzone Oberflächengewässer – Aquifer (Interface surface water-aquifer, in German). Berlin, Germany, IGB science day, 19 Jun. 2009, talk.
5. Lewandowski, Jörg (2005): Two-dimensional small-scale heterogeneity of pore water phosphorus concentrations in subhydric soils – causes and impacts. Stuttgart, Germany, University of Hohenheim, Institute for soil Science and Site Ecology, Soil Science Colloquium, 04 Jul. 2005, talk.
4. Lewandowski, Jörg (2005): Two-dimensional small-scale heterogeneity of pore water phosphorus concentrations in subhydric soils – causes and impacts. Stuttgart, Germany, University of Hohenheim, Institute for Plant nutrition and Soil Chemistry, Colloquium Progress in Plant Nutrition, 24 Jun. 2005, talk.
3. Lewandowski, Jörg (2005): Biologisch-chemische Wechselwirkungen zwischen Gewässersedimenten und Organismen (Biological-chemical interactions between freshwater sediments and organisms, in German). Lüneburg, Germany, University Lüneburg, Appointment lecture for the junior-professorship Ecological Chemistry, 21 Mar. 2005, talk.
2. Lewandowski, Jörg (2004): Schadstoffe in der Umwelt (Contaminants in the environment, in German). Giessen, Germany, Justus-Liebig University Giessen, Appointment lecture

for the C2-professorship Resource-Management and Environmental Chemistry, 17 Aug. 2004, talk.

1. Lewandowski, Jörg; Schauser, Inke & Hupfer, Michael (2001): Räumliche Heterogenität von Sedimenten: Zweidimensionale kleinräumige Strukturen der SRP-Konzentrationen in Porenwässern limnischer Sedimente (Spatial heterogeneity of sediments: Two-dimensional small-scale structures of SRP concentrations in pore waters of limnetic sediments, in German). Berlin, Germany, IGB-Colloquium, 21 Jun. 2001, talk.

Scientific reports

20. Meinikmann, Karin*; Lewandowski, Jörg & HypoTRAIN team (2019): Hyporheic Zone Processes – A training network for enhancing the understanding of complex physical, chemical and biological process interactions. Periodic Technical Report, Part B, Project number 641939, Project acronym: HypoTRAIN, 54 pp.
19. Meinikmann, Karin; Lewandowski, Jörg & HypoTRAIN team (2016): Hyporheic Zone Processes – A training network for enhancing the understanding of complex physical, chemical and biological process interactions. Draft Periodic Report, Deliverable D7.7, Marie Skłodowska-Curie Innovative Training Network “HypoTRAIN”, Grant Agreement No. 641939, 46 pp.
18. Meinikmann, Karin & Lewandowski, Jörg (2013): Grundwasseruntersuchungen im Einzugsgebiet des Arendsees zur Trendermittlung der Phosphorbelastung (Groundwater investigations in the catchment of Lake Arendsee to determine temporal developments of phosphorus contaminations, in German). *Report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), State Agency for Flood Protection and Water Management Saxony Anhalt (LHW, orderer), 20 pp.
17. Lewandowski, Jörg; Hupfer, Michael; Meinikmann, Karin; Herzog, Christiane; Pöschke, Franziska; Sturm, Christine & Jordan, Sylvia (2012): Vorplanung zur Sanierung des Arendsee - Teilprojekt IV (Preinvestigations restoration of Lake Arendsee - Subproject IV: Systematic localization and quantification of external sources and measurements of load reduction). Final report, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), State Agency for Flood Protection and Water Management Saxony Anhalt (LHW, orderer), 92 pp.
16. Sacher, Andrea; Pöschke, Franziska; Lewandowski, Jörg (2012): Lokalisierung von Grundwasserzutritten im Concordiasee bei Nachterstedt (Localization of groundwater exfiltration zones in Lake Concordia, Nachterstedt, in German). *Final report,* Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), Lausitz and Central-German Mining Administration Company (LMBV, orderer), 47 pp.
15. Lewandowski, Jörg; Hupfer, Michael; Meinikmann, Karin; Herzog, Christiane; Pöschke, Franziska; Sturm, Christine & Jordan, Sylvia (2011): Vorplanung zur Sanierung des Arendsee - Teilprojekt IV (Preinvestigations restoration of Lake Arendsee - Subproject IV: Systematic localization and quantification of external sources and measurements of load reduction). *Interim report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), State Agency for Flood Protection and Water Management Saxony Anhalt (LHW, orderer), 49 pp.
14. Roskosch, Andrea; Hamann, Enrico; Jordan, Sylvia; Dziallas, Claudia; Hupfer, Michael; Nützmann, Gunnar & Lewandowski, Jörg (2011): Einflüsse von Makrozoobenthos auf Stofftransport und biogeochemische Prozesse in Seesedimenten (Impacts of macrozoobenthos on transport and biogeochemical turnover processes in lake sediments, in German). *Final Report,* German Research Foundation (DFG) projects LE 1356/3-1 and LE 1356/3-2, 14 pp.
13. Lewandowski, Jörg; Hupfer, Michael; Meinikmann, Karin; Herzog, Christiane; Jordan, Sylvia; Sturm, Christine; Piekarski, Jens; Pöschke, Franziska; Behr, Roman & Marburg, Silke (2011): Vorplanung zur Sanierung des Arendsee - Teilprojekt III (Preinvestigations restoration of Lake Arendsee - Subproject III: Systematic localization and quantification of

external sources and measurements of load reduction). *Updated report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), State Agency for Flood Protection and Water Management Saxony Anhalt (LHW, orderer), 105 pp.

12. Lewandowski, Jörg; Hupfer, Michael; Meinikmann, Karin; Herzog, Christiane; Jordan, Sylvia; Sturm, Christine; Piekarski, Jens; Pöschke, Franziska; Behr, Roman & Marburg, Silke (2010): Vorplanung zur Sanierung des Arendsee - Teilprojekt III (Preinvestigations restoration of Lake Arendsee - Subproject III: Systematic localization and quantification of external sources and measurements of load reduction). *Report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), State Agency for Flood Protection and Water Management Saxony Anhalt (LHW, orderer), 102 pp.
11. Lewandowski, Jörg; Hupfer, Michael; Nützmann, Gunnar; Roskosch, Andrea; Hamann, Enrico; Jordan, Sylvia & Dziallas, Claudia (2009): Einflüsse von Makrozoobenthos auf Stofftransport und biogeochemische Prozesse in Seesedimenten (Impacts of macrozoobenthos on transport and biogeochemical turnover processes in lake sediments, in German). *Interim Report,* German Research Foundation (DFG) project LE 1356/3-1, 20 pp.
10. Lewandowski, Jörg; Hupfer, Michael; Warnecke, Carsten; Fechner, Randy; Laskov, Christine; Herzog, Christiane; Ehwald, Rudolf; Fechner, Heiko; Woehlecke, Holger; von Tümpling, Wolf & Mages, Margarete (2004): Entwicklung eines Mikrodialyse-Freilandgerätes für Untersuchungen von schnell verlaufenden stofflichen Änderungen in Grenz- und Übergangszonen (Development of an *in situ* microdialysis device for investigation of fast changes of chemical composition at interfaces, in German). *Final report,* Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), German Federal Environment Foundation (DBU, orderer), Research project 17225, 92 pp.
9. Lewandowski, Jörg; Hupfer, Michael; Fechner, Randy; Ehwald, Rudolf & Fechner, Heiko (2004): Entwicklung eines Mikrodialyse-Freilandgerätes für Untersuchungen von schnell verlaufenden stofflichen Änderungen in Grenz- und Übergangszonen (Development of an *in situ* microdialysis device for investigation of fast changes of chemical composition at interfaces, in German). *Interim report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), German Federal Environment Foundation (DBU, orderer), Research project 17225, 32 pp
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7. Lewandowski, Jörg; Hupfer, Michael & Herzog, Christiane (2003): Sedimentuntersuchungen Gehrensee. Abschätzung der Relevanz des Phosphor-Vorrates im Sediment für die interne P-Belastung (Sediment investigation of Lake Gehrensee. Evaluation of the relevance of the internal P pool in the sediment for the internal P load, in German). *Final report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), Consulting company Wassmann (orderer), 19 pp.
6. Hupfer, Michael; Schauser, Inke; Lewandowski, Jörg; Herzog, Christiane & Dollan, Anja (2001): Steuerung der Phosphor-Retention in Sedimenten durch seeinterne Maßnahmen. Erarbeitung eines Konzeptes für den Einsatz von Restaurierungsverfahren (Control of phosphorus retention in lake sediments by in-lake measures. Development of a scientific decision support system. Interim report, in German). *Final report,* Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), German Federal Ministry of Education and Research (BMBF, orderer), project 02WT9822/4, 25 pp.

5. Rheinfurth, Ulrike; Hupfer, Michael; Lewandowski, Jörg & Herzog, Christiane (2000): Eutrophierungspotential der Sedimente beim Wiederanstau der Talsperre Bautzen (Eutrophication potential of the sediments of the reservoir Bautzen resulting from re-flooding, in German). *Final report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), Saxon State Administration for Reservoir Management (orderer), 36 pp.
4. Lewandowski, Jörg; Schauser, Inke; Hupfer, Michael; Herzog, Christiane; Rheinfurth, Ulrike & Schulz, Miriam (2000): Steuerung der Phosphor-Retention in Sedimenten durch seeinterne Maßnahmen. Erarbeitung eines Konzeptes für den Einsatz von Restaurierungsverfahren (Control of phosphorus retention in lake sediments by in-lake measures. Development of a scientific decision support system. Interim report, in German). *Interim report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB, contractor), German Federal Ministry of Education and Research (BMBF, orderer), project 02WT9822/4, 71 pp.
3. Hupfer, Michael; Lewandowski, Jörg; Schauser, Inke & Herzog, Christiane (1999): Phosphor-Mobilisierungspotential von Sedimenten des Auensees (Leipzig) (Phosphorus mobilization potential of sediments of Lake Auensee, Leipzig, Germany, in German). *Final report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), Town Council Leipzig, Office for Environmental Conservation (orderer), 35 pp.
2. Hupfer, Michael; Schauser, Inke; Lewandowski, Jörg; Herzog, Christiane; Brüggemann, Rainer; Holzbecher, Ekkehard. & Pöthig, Rosemarie (1999): Steuerung der Phosphor-Retention in Sedimenten durch seeinterne Maßnahmen. Erarbeitung eines Konzeptes für den Einsatz von Restaurierungsverfahren: Zwischenbericht (Control of phosphorus retention in lake sediments by in-lake measures: Development of a scientific decision support system, in German). *Interim report*, Leibniz-Institute of Freshwater Ecology and Inland Fisheries Berlin (IGB, contractor), German Federal Ministry of Education and Research (BMBF, orderer), project 02WT9822/4, 81 pp.
1. Lewandowski, Jörg & Walther, Wolfgang (1998): Abschätzung der Emissionen aus Altablagerungen beim Grundwasserwiederanstieg infolge der Flutung von Tagebauen im Raum Hoyerswerda / Weißwasser anhand von Untersuchungen zur Schadstofffreisetzung und Bewertung des Transportverhaltens (Assessment of emissions from abandoned waste disposal sites resulting from the flooding with groundwater of open-cast brown-coal mines in the Hoyerswerda/Weißwasser region (Germany) based on studies of contaminant mobilization and evaluation of the mobility, in German). *Final report*, Institute of Groundwater Management (IGW), Technical University Dresden (contractor), Saxon State Ministry of the Environment and State Development (SMUL) & Saxon State Office for Environment and Geology (orderer), project 13-8802.3522/35, 125 pp.

Organisation of workshops and special sessions

37. Lewandowski, Jörg; Drummond, Jennifer; Boano, Fulvio; Fleckenstein, Jan & Krause, Stefan (2022): Groundwater-surface water interactions: physical, biogeochemical and ecological processes. Vienna, Convenor, Session 10.8, EGU General Assembly, 130 + 30 online participants, 23 – 27 May 2022.
36. Drummond, Jennifer; Knapp, Julia, Boano, Fulvio; Fleckenstein, Jan; Krause, Stefan & Lewandowski, Jörg (2021): Groundwater-surface water interactions: physical, biogeochemical and ecological processes. Vienna, Co-convenor, Session 10.9, vEGU General Assembly, 100 participants, 25 Apr – 30 Apr 2021.
35. Knapp, Julia; Boano, Fulvio; Drummond, Jennifer; Fleckenstein, Jan & Lewandowski, Jörg (2020): Groundwater-surface water interactions: biogeochemical and ecological processes. Vienna, Convenor, Session HS10.8/BG6.5, EGU General Assembly, 105 participants, 3 Mai – 8 Mai 2020.

34. Drummond, Jennifer; Boano, Fulvio; Fleckenstein, Jan; Krause, Stefan & Lewandowski, Jörg (2019): Groundwater-surface water interactions: biogeochemical and ecological processes. Vienna, Convenor, Session HS10.8/BG6.5, EGU General Assembly, 75 participants, 7 Apr. – 12 Apr. 2019.
33. Shanafield, Margaret; Batelaan, Okke; Lewandowski, Jörg & Hinkelmann, Reinhard (2018): Urban hydrology: Physical and biogeochemical impacts of urbanization on hydrological systems. Vienna, Co-convenor, Session HS HS1.18, PICO Session, EGU General Assembly, 75 participants, 8 Apr. – 13 Apr. 2018.
32. Boano, Fulvio; Krause, Stefan; Lewandowski, Jörg; Blaen, Phillip & Fleckenstein, Jan (2018): Groundwater-surface water interactions: biogeochemical and ecological processes. Vienna, Co-convenor, Session HS 10.10, EGU General Assembly, 50 participants, 8 Apr. – 13 Apr. 2018.
31. Merz, Christoph; Moosdorf, Nils; Fleckenstein, Jan; Lewandowski, Jörg; Lischeid, Gunnar; Massmann, Gudrun & Schneider, Michael (2018): Grundwasser-Oberflächenwasser Interaktionen: Prozesse und Methoden (Groundwater-surface water interactions: processes and methods, in German). Bochum, Co-convenor, 26. Meeting of the German Association for Hydrogeology (FH-DGGV), 120 participants, 21. – 24. March 2018.
30. Robertson, Anne; Meinikmann, Karin ;Lewandowski, Jörg & ITN HypoTRAIN (2018): European Hyporheic Forum. London, Workshop organization, 50 participitants, 25. – 27. April 2018.
29. Blaen, Phillip; Krause, Stefan; Fleckenstein, Jan H.; Boano, Fulvio and Lewandowski, Jörg; (2017): Groundwater - Surface Water interactions: biogeochemical and ecological processes. Vienna, Convenor, Session HS 10.10, EGU General Assembly, 110 participants, 23 Apr. – 28 Apr. 2017.
28. Krause, Stefan; …; Lewandowski, Jörg et al. (2017): HydroEco: Ecohydrology on the edge: ecology-hydrology-human interactions in a changing world, 6th International Multidisciplinary Conference on Hydrology and Ecology. Birmingham, International Advisory Board, 200 participants, 18 Jun. – 23 Jun. 2017.
27. Lewandowski, Jörg; Lynch, Iseult & Schaper, Jonas (2017): Ecohydrology interactions with emerging pollutants (incl. microplastics, engineered nanoparticles, pharmaceuticals). Birmingham, Convenor, Session S9, HydroEco, 40 participants, 18 Jun. – 23 Jun. 2017.
26. Lewandowski, Jörg; Krause, Stefan; Fleckenstein, Jan H. & Boano, Fulvio (2016): GW-SW interactions: biogeochemical and ecologic processes. Vienna, Convenor session HS 10.11, EGU General Assembly, 150 participants, 17 Apr. – 22 Apr. 2016.
25. Lewandowski, Jörg; Meinikmann, Karin & ITN HypoTRAIN (2016): European Hyporheic Forum. Berlin, Workshop organization, 50 participitants, 13 Jun. 2016.
24. Jörg Lewandowski: Urban areas / water supply and treatment - innovative solutions. Berlin, Session chair, 17th IWA International Conference on Diffuse Pollution and Eutrophication, 30 participants, 13 Sep. – 18 Sep. 2015.
23. Boano, Fulvio; Stellato, Luisa; Fleckenstein, Jan; Lewandowski, Jörg; Krause, Stefan; Gilfedder, Benjamin; Rau, Gabriel; Hofmann, Harald & Cartwright, Ian: Groundwater-Surface water interactions: concepts, methods and biogeochemical and ecologic implications. Vienna, Co-convenor session HS 10.11, 80 participants, EGU General Assembly, 12 Apr. – 17 Apr. 2015.
22. Geris, Josie; Smettem, Keith; Krause, Stefan; Lewandowski, Jörg & Vico, Giulia: New developments in understanding ecohydrological systems and their interfaces. Vienna, Co-convenor session HS 10.9, 50 participants, EGU General Assembly, 12 Apr. – 17 Apr. 2015.
21. Hofmann, Harald; Fleckenstein, Jan; Cartwright, Ian; Boano, Fulvio; Stellato, Luisa; Krause, Stefan; Gilfedder, Benjamin; Lewandowski, Jörg; Cuthbert, Mark & Rau, Gabriel: Groundwater-Surface water interactions: concepts, methods and biogeochemical and

ecologic implications. Vienna, Co-convenor session HS 2.3.9, EGU General Assembly, 200 participants, 27 Apr. – 02 May 2014.

20. Lewandowski, Jörg & Hupfer, Michael (2014): Aquatische Grenzzonen (Aquatic interfaces, in German). Magdeburg, Convenor of Special Session S12, Annual meeting of the German Limnological Society (DGL-Jahrestagung), 80 participants, 29. Sept. – 03. Oktober 2014.
19. Brand, Andreas; Lewandowski, Jörg; Nützmann, Gunnar & Meile, Christof (2013): Geochemical consequences of advection in aquatic sediments. New Orleans, Co-convernor of Special Session SS48, ASLO Aquatic Sciences Meeting, 80 participants, 17 Feb. – 22 Feb. 2013.
18. Lewandowski, Jörg & Nützmann, Gunnar (2013): Workshop Real time Ecohydrology. IGB, Berlin, 10 participants, 7 Mar. 2013.
17. Müller, Eva Nora & Lewandowski, Jörg (2013): AK Ökohydrologie der Deutschen Hydrologischen Gesellschaft. IGB, Berlin, 10 participants, 25 Feb. 2013.
16. Hupfer, Michael & Lewandowski, Jörg (2013): Lake restoration workshop (Workshop Seentherapie, in German). Arendsee, Convenor, 95 participants, 18 Mar. – 22 Mar. 2013.
15. Boano, Fulvio; Krause, Stefan; Fleckenstein, Jan H.; Cuthbert, Mark O. & Lewandowski, Jörg (2013): Interactions between surface water, groundwater, and the hyporheic zone. Vienna, Co-convenor session HS 10.7 and PSD 10.7, EGU General Assembly, 100 participants, 13 Apr. – 17 Apr. 2013.
14. Lewandowski, Jörg & Tockner, Klement (2013): Real-time Ecology. Koblenz, Germany, Session convenor, 6th International Conference on Water Resources and Environment Research (ICWRER), 35 participants, 3 Jun. – 7 Jun. 2013.
13. Cudennec, Christophe; Kravchishina, Marina; Lewandowski, Jörg & Stålnacke, Per (2013): Knowledge for the future, Session HP2: Land-ocean interaction - Hydrodynamics and biogeochemistry. Gothenburg, Session co-convenor, IAHS & IAPSO & IASPEI, 25 participants, 22 Jul. – 26 Jul. 2013.
12. Lewandowski, Jörg & Nützmann, Gunnar (2013): Session S18: Real-time Limnologie und Ökohydrologie (Real-time limnology and ecohydrology, in German). Potsdam, Session convenor, Annual conference of the German Society for Limnology (DGL), 60 participants, 9 Sep. – 13 Sep. 2013.
11. Schmidt, Christian; Fleckenstein, Jan H.; Lewandowski, Jörg; Radke, Michael; Krause, Stefan: 3. Workshop hyporheisches Netzwerk. Leipzig, Co-convenor, 35 participants, 7 Oct. – 9 Oct. 2013.
10. Lewandowski, Jörg (2012): Seen - Prozesse, Modelle, Theorien (Lakes – processes, models, theory, in German). Koblenz, Session convenor, Annual conference of the German Society for Limnology (DGL), 80 participants, 24 Sep. – 28 Sep. 2012.
9. Krause, Stefan; Fleckenstein, Jan H.; Boano, Fulvio; Cuthbert, Mark O. & Lewandowski, Jörg (2012): Interactions between surface water, groundwater, and the hyporheic zone. Vienna, Co-convenor session HS 10.3 and PSD 16.9, EGU General Assembly, 150 participants, 22 Apr. – 27 Apr. 2012.
8. Lewandowski, Jörg (2011): Conceptual and modelling studies of integrated groundwater, surface water, and ecological systems, Session H01S5: Sensitivity analysis and uncertainty evaluation. Melbourne, Session co-convenor, IUGG, 80 participants, 06 Jul. 2011.
7. Lewandowski, Jörg; Krause, Stefan; Boano, Fulvio; Fleckenstein, Jan H. & Cuthbert, Mark O. (2011): Interactions between surface water, groundwater, and the hyporheic zone. Vienna, Convenor session HS 10.3, EGU General Assembly, 200 participants, 03 Apr. – 08 Apr. 2011.
6. Lewandowski, Jörg; Nützmann, Gunnar, Fleckenstein, Jan H.; Hoehn, Eduard; Saenger, Nicole; Michael Radke & Christian Schmidt (2010): 2. Workshop Hyporheisches

Netzwerk (2nd workshop of the Hyporheic Network, in German). Berlin, Workshop convenor, 40 participants, 22 Nov. – 24 Nov. 2010.

5. Hahn, Hans-Jürgen & Lewandowski, Jörg (2010): Grundwasser und hyporheisches Interstitial (Groundwater and hyporheic interstitial, in German). Bayreuth, Session convenor, Annual conference of the German Society for Limnology (DGL), 60 participants, 27 Sep. – 01 Oct. 2010.

4. Radke, Michael; Lewandowski, Jörg; Griebler, Christian; Börnick, Hilmar; Putschew, Anke; Kalbus, Edda; Schmidt, Christian; Worch, Eckhard; Grischek, Thomas; Jekel, Martin; Ternes, Thomas; Röske, Kerstin; Nützmann, Gunnar (2009): DFG round table meeting InterHyp: Interactions between physical, chemical and microbiological processes and their impacts on the fate of organic contaminants in the hyporheic zone. Nürnberg, Co-convenor DFG round table meeting, 30 participants, 28 Aug. – 29 Aug. 2008.

3. Lewandowski, Jörg; Nützmann, Gunnar, Fleckenstein, Jan; Hoehn, Eduard; Saenger, Nicole; Michael Radke & Christian Schmidt (2009): Auftaktworkshop Hyporheisches Netzwerk (Initial workshop Hyporheic Network, in German). Berlin, Workshop convenor, 40 participants, 14 Dec. – 15 Dec. 2009.

2. Radke, Michael; Lewandowski, Jörg; Griebler, Christian; Börnick, Hilmar; Putschew, Anke; Kalbus, Edda; Schmidt, Christian; Worch, Eckhard; Grischek, Thomas; Jekel, Martin; Ternes, Thomas; Röske, Kerstin; Nützmann, Gunnar (2008): DFG round table meeting InterHyp: Interactions between physical, chemical and microbiological processes and their impacts on the fate of organic contaminants in the hyporheic zone. Leipzig, Co-convenor DFG round table meeting, 40 participants, 24 Mar. – 25 Mar. 2008.

1. Hupfer, Michael; Lewandowski, Jörg; Schauser, Inke & Herzog, Christiane (2002): Workshop Seentherapie (Workshop lake therapy, in German). Blossin, Workshop co-convenor, 80 participants, 18 Mar. – 20 Mar. 2002.

Editorships

Lewandowski, Jörg; Meinikmann, Karin; & Krause, Stefan (2020): Groundwater-surface water interactions. Special issue in *Water* **12**. [IF2019/2020 2.544]

Lewandowski, Jörg; Meinikmann, Karin and Krause, Stefan (2020). Groundwater-Surface Water Interactions. Printed Edition of the Special Issue Published in Water. Basel: MDPI, 440 pp.

Krause, Stefan; Fleckenstein, Jan H.; Boano, Fulvio; Cuthbert, Mark O. & Lewandowski, Jörg (2014): New modelling approaches and novel experimental technologies for improved understanding of process dynamics at aquifer-surface water interfaces. Special section in *Water Resources Research* **50**. [IF2014 3.549]

Cudennec, Christophe; Kravchishina, Marina; Lewandowski, Jörg; Rosbjerg, Dan & Woodworth, Philip L. (2014): Complex interfaces under change: Sea – river – groundwater – lake: Proceedings of symposia HP2 and HP3 held during the IAHS-IAPSO-IASPEI Assembly, Gothenburg, Sweden. Oxfordshire, *IAHS Publ.* **365**.

Lewandowski, Jörg; Nützmann, Gunnar & Tockner, Klement (2014): Frontiers in real time Ecohydrology. Special issue in *Fundamental and Applied Limnology* **184**. [IF2014: 1.077]

Lewandowski, Jörg & Hupfer, Michael (2013): Lake restoration (Seentherapie, in German). Sonderheft in *Korrespondenz Wasserwirtschaft* **6**.

Hupfer, Michael & Lewandowski, Jörg (2002): Lake restoration (Seentherapie, in German). *Wasser & Boden* **9**.