

Matthias Liess (Prof. Dr.)

Publications

329 Publications, Citations: 19.800; h:73 (Google Scholar 06.2023)

2 Patents

Compilations

- ORCID:

<https://orcid.org/0000-0002-3321-8909>

- Scopus: (Citations: 12.400; h: 57)

<https://www.scopus.com>

- Research Gate: (Citations: 16.500; h: 66)

https://www.researchgate.net/profile/Matthias_Liess

- Google Scholar: (Citations: 20.000; h: 73)

<https://scholar.google.de/citations?hl=de&user=Jpz-KpUAAAAJ>

2023

189. Flach H, Dietmann P, Liess M, Kühl M, Kühl SJ. 2023. Glyphosate without co-formulants affects embryonic development of the south african clawed frog *Xenopus laevis*. *Ecotoxicology and Environmental Safety* 260, 115080. doi.org/10.1016/j.ecoenv.2023.115080. DOI: [10.1016/j.ecoenv.2023.115080](https://doi.org/10.1016/j.ecoenv.2023.115080)

188. Schneeweiss A, Schreiner VC, Liess M, Röder N, Schwenk K, Schäfer RB. 2023. Population structure and insecticide response of *Gammarus* spp. in agricultural and upstream forested sites of small streams. *Environmental Sciences Europe* DOI: [10.1186/s12302-023-00747-y](https://doi.org/10.1186/s12302-023-00747-y)

187. Schunk F, Liess M. 2023. Ultra-low esfenvalerate concentrations increase biomass and may reduce competitiveness of *Daphnia magna* Populations. *Science of the Total Environment*. *Science of the Total Environment* 886 (2023) 163916. DOI: [10.1016/j.scitotenv.2023.163916](https://doi.org/10.1016/j.scitotenv.2023.163916)

186. Vormeier P, Schreiner VC, Liebmann L, Link M, Schäfer RB, Schneeweiss A, Weisner O, Liess M. 2023. Temporal scales of pesticide exposure and risks in German small streams. *Science of the Total Environment*. DOI: [10.1016/j.scitotenv.2023.162105](https://doi.org/10.1016/j.scitotenv.2023.162105).

185. Schreiner VC, Liebmann L, Feckler A, Liess M, Link M, Schneeweiss A, Truchy A, von Tümpling W, Vormeier P, Weisner O, Schäfer RB, Bundschuh M. 2023. Standard vs. Natural: Assessing the impact of environmental variables on organic matter decomposition in streams using three substrates. ETC. DOI: 10.1002/etc.5577

184. Vormeier P, Liebmann L, Weisner O, Liess L. 2023. Width of vegetated buffer strips to protect aquatic life from pesticide effects. Water research. 231,2023, 119627. DOI: 10.1016/j.watres.2023.119627.

183. Gönnern Jv, Bowler DE, Gröning J, Klauer A-K, Liess M, Neuer L, Bonn A. 2023. Citizen science for assessing pesticide impacts in agricultural streams Science of the Total Environment. 857. 159607. DOI: 10.1016/j.scitotenv.2022.159607

182. Ohler K, Schreiner VC, Link M, Liess M, Schäfer RB. 2023. Land use changes biomass and temporal patterns of insect cross-ecosystem flows. Global Change Biology. 2023; 29:81–96. DOI: 10.1111/gcb.16462

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181. Schunck F, Liess M. 2022. Time between sequential exposures to multiple stress turns antagonism into synergism. Environmental Science & Technology. <https://doi.org/10.1021/acs.est.2c04345>

180. Liebmann L, Vormeier P, Weisner O, Liess M. 2022. Balancing effort and benefit—How taxonomic and quantitative resolution influence the pesticide indicator system SPEAR_{pesticides}. Science of The Total Environment, <https://doi.org/10.1016/j.scitotenv.2022.157642>

179. Reiber L, Foit K, Liess M, Karaoglan B, Wogram J, Duquesne S. 2022. Close to reality? Micro-/mesocosm communities do not represent natural macroinvertebrate communities. Environmental Sciences Europe. <https://doi.org/10.1186/s12302-022-00643-x>

178. Scholz S, Brack W, Escher BI, Hackermüller J, Liess M, von Bergen M, Wick LY, Zenclussen AC, Altenburger R. 2022. The EU chemicals strategy for sustainability: an opportunity to develop new approaches for hazard and risk assessment. Archives of Toxicology. <https://doi.org/10.1007/s00204-022-03313-2>

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176. Brühl C, Zaller JG, Liess M, Wogram J. 2022. The rejection of synthetic pesticides in organic farming has multiple benefits. Trends in Ecology & Evolution. 37(2):113-114. <https://doi.org/10.1016/j.tree.2021.11.001>

175. Weisner O, Arle J, Liebmann L, Link M, Reemtsma T, Schäfer RB, Schneeweiss A, Schreiner VC, Vormeier P, Liess M. 2022. Three Reasons Why the Water Framework Directive (WFD) Fails to Identify Pesticide Risks. Water Research. 208, 117848. <https://doi.org/10.1016/j.watres.2021.117848>

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173. Katharina Halbach; Monika Moeder; Steffi Schrader; Liana Liebmann; Ralf B Schaefer; Anke Schneeweiss; Verena C Schreiner; Philipp Vormeier; Oliver Weisner; Matthias Liess; Thorsten Reemtsma. Small streams – large concentrations? Pesticide monitoring in small agricultural streams in Germany during dry weather and rainfall. Water Research. 203, 117535. <https://doi.org/10.1016/j.watres.2021.117535>

172. Weisner O, Frische T, Liebmann L, Reemtsma T, Roß-Nickoll M, Schäfer RB, Schäfer A, Scholz-Starke B, Vormeier P, Knillmann S, Liess M. 2021. Risk from pesticide mixtures – The gap between risk assessment and reality. Science of the Total Environment 796, 149017. <https://doi.org/10.1016/j.scitotenv.2021.149017>

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W, Weitere M, Wogram J, Reemtsma T. 2021. Pesticides are the dominant stressors for vulnerable insects in lowland streams. *Water Research* 117262 <https://doi.org/10.1016/j.watres.2021.117262>

169. Ganatra A. A, Kandie F J, Fillinger U, McOdimba F, Torto B, Brack W, Liess M, Hollert H, Becker J M. 2021. Calibration of the SPEAR_{pesticides} bioindicator for cost-effective pesticide monitoring in East African streams. *Environmental Sciences Europe*, 33:58. DOI: <https://doi.org/10.1186/s12302-021-00497-9>

168. Reiber L, Knillmann K, Kaske O, Atencio LC, Bittner L, Albrecht JE, Götz A, Fahl A-K, Beckers L-M, Krauss M, Henkelmann B, Schramm K-W, Inostroza PA, Schinkel L, Brauns M, Weitere M, Brack W, Liess M. 2021. Long-term effects of a catastrophic insecticide spill on stream invertebrates *Science of the Total Environment*. 768, 144456. DOI: <https://doi.org/10.1016/j.scitotenv.2020.144456>.

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160. Urs Niggli, Judith Riedel, Carsten Brühl, Matthias Liess, Ralf Schulz, Rolf Altenburger, Bernward Märkländer, Wolfgang Bokelmann, Jürgen Heß, Annette Reineke und Bärzu Gerowitt. 2020. Pflanzenschutz und Biodiversität in Agrarökosystemen (Crop protection and biodiversity in agro-ecosystems). *Berichte über Landwirtschaft*, 98, 1. <https://doi.org/10.12767/buel.v98i1.272>

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155. Ralf Schäfer; Matthias Liess; Rolf Altenburger; Juliane Filser; Henner Hollert; Martina Roß-Nickoll; Andreas Schäffer; Martin Scheringer. Future pesticide risk assessment – narrowing the gap between intention and reality. *Environmental Sciences Europe*

154. Liess M, Ratte T, Ebke P, Hollert H, 2019. 20 years SETAC GLB – increasing realism of pesticide risk assessment. *Environmental Science Europe*. 31 (13). <https://doi.org/10.1186/s12302-019-0197-x>.

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149. Schäffer A, Filser J, Frische T, Gessner M, Köck W, Kratz W, Liess M, Nuppenau E-A, Roß-Nickoll M, Schäfer R, Scheringer M 2018. Der stumme Frühling - Zur Notwendigkeit eines umweltverträglichen Pflanzenschutzes. Diskussion Nr. 16. Nationale Akademie der Wissenschaften - Leopoldina, Halle (Saale).

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