



Veröffentlichungen

des Helmholtz-Zentrums für Umweltforschung – UFZ

Topic 9: Ein gesunder Planet - Hin zu einer schadstofffreien Umwelt

Vorbemerkung

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahr 2022 erschienenen Publikationen des Programm-Topics 9 „Ein gesunder Planet - Hin zu einer schadstofffreien Umwelt“ des Helmholtz-Programms „Changing Earth - Sustaining our Future“ des Forschungsbereichs Erde und Umwelt, die von Beschäftigten des Helmholtz-Zentrums für Umweltforschung – UFZ verfasst, mitverfasst oder herausgegeben wurden.

Ist eine Publikation zusätzlich noch weiteren Programm-Topics zugeordnet, wird dies durch einen Hinweis auf Haupt- und Nebenzuordnungen ersichtlich.

Redaktionsschluss für diese Publikationsliste war der 20.01.2023.

UFZ-Beschäftigte sind im Unterschied zu Externen bei allen Publikationen durch **fette Schrift** hervorgehoben.

Das anschließende Autorenregister verzeichnet alle UFZ-Namen in alphabetischer Reihenfolge mit den laufenden Nummern der zugehörigen Publikationen.

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Veröffentlichungen in ISI/Scopus-gelisteten Zeitschriften/Schriftenreihen

1. Alzualde, A., Hsieh, J.-H., Ellis, L., Schiavone, V., Truong, L., Legradi, J., Rubbini, D., Woodland, C., **Klüver, N.**, Ryan, K., Behl, M., Terriente, J., Muriana, A., Tanguay, R., Sachana, M., Hill, B., Padilla, S., Shafer, T., Hessel, E. (2022):
An inter-laboratory case study to harmonize zebrafish light-dark transition test to predict developmental neurotoxicity for the OECD guidance document
Int. J. Toxicol. **41** (1), 55 - 56
2. Amici, F., **Röder, S.**, Kiess, W., Borte, M., **Zenclussen, A.C.**, Widdig, A., **Herberth, G.** (2022):
Maternal stress, child behavior and the promotive role of older siblings
BMC Public Health **22**, art. 863
3. Barta, T., Sandtner, W., Wachlmayr, J., Hanneschlaeger, C., **Ebert, A.**, Speletz, A., Horner, A. (2022):
Modeling of SGLT1 in reconstituted systems reveals apparent ion-dependencies of glucose uptake and strengthens the notion of water-permeable apo states
Front. Physiol. **13**, art. 874472
4. **Bauer, M., Fink, B.**, Anderegg, U., **Röder, S., Zenclussen, A.C.** (2022):
IL17F expression as an early sign of oxidative stress-induced cytotoxicity/apoptosis
Genes **13** (10), art. 1739
5. Blaurock, K., Garthen, P., **da Silva, M.P.**, Beudert, B., Gilfedder, B.S., **Fleckenstein, J.H.**, Peiffer, S., **Lechtenfeld, O.J.**, Hopp, L. (2022):
Riparian microtopography affects event-driven stream DOC concentrations and DOM quality in a forested headwater catchment
J. Geophys. Res.-Biogeosci. **127** (12), e2022JG006831
Hauptzuordnung T5; Nebenzuordnung T9
6. **Böhme, A., Moldrickx, J., Schüürmann, G.** (2022):
Amino reactivity of Schiff base forming aldehydes - Nonanimal assessment of their skin sensitization potency
Naunyn-Schmiedebergs Arch. Pharmacol. **395** (Suppl. 1), S31 - S31
7. Book, F., Persson, M., **Carmona, E.**, Backhaus, T., Lammel, T. (2022):
Colloidal silica nanomaterials reduce the toxicity of pesticides to algae, depending on charge and surface area
Environ. Sci.-Nano **9** (7), 2402 - 2416

8. **Brack, W.**, Barcelo Culleres, D., Boxall, A.B.A., Budzinski, H., Castiglioni, S., Covaci, A., Dulio, V., **Escher, B.I.**, Fantke, P., Kandie, F., Fatta-Kassinos, D., Hernández, F.J., Hilscherová, K., Hollender, J., Hollert, H., **Jahnke, A.**, Kasprzyk-Hordern, B., Khan, S.J., Kortenkamp, A., Kümmerer, K., Lalonde, B., Lamoree, M.H., Levi, Y., Lara Martín, P.A., Montagner, C.C., Mougin, C., Msagati, T., Oehlmann, J., Posthuma, L., Reid, M., Reinhardt, M., Richardson, S.D., Rostkowski, P., Schymanski, E., Schneider, F., Slobodnik, J., Shibata, Y., Snyder, S.A., Sodr , F.F., Teodorovic, I., Thomas, K.V., Umbuzeiro, G.A., Viet, P.H., Yew-Hoong, K.G., Zhang, X., Zuccato, E. (2022):
One planet: one health. A call to support the initiative on a global science–policy body on chemicals and waste
Environ. Sci. Eur. **34** , art. 21
9. Brede, M., **Haange, S.-B.**, Riede, S., **Engelmann, B.**, **Jehlich, N.**, **Rolle-Kampczyk, U.E.**, Rohn, K., Von Soosten, D., **von Bergen, M.**, Breves, G. (2022):
Effects of different formulations of glyphosate on rumen microbial metabolism and microbial community composition in the Rumen Simulation Technique system
Front. Microbiol. **13** , art. 873101
10. Br hl, C.A., Zaller, J.G., **Liess, M.**, Wogram, J. (2022):
The rejection of synthetic pesticides in organic farming has multiple benefits
Trends Ecol. Evol. **37** (2), 113 - 114
11. **Buchenauer, L.**, **Junge, K.M.**, **Haange, S.-B.**, Simon, J.C., **von Bergen, M.**, Hoh, A.-L., Aust, G., **Zenclussen, A.C.**, Stangl, G.I., **Polte, T.** (2022):
Glyphosate differentially affects the allergic immune response across generations in mice
Sci. Total Environ. **850** , art. 157973
12. Busse, M., Langwisch, S., Tedford, K., Fischer, K.-D., **Zenclussen, A.C.** (2022):
Maternal B cell signaling orchestrates fetal development in mice
Development **149** (8), dev.199783
13. Busse, M., Scharm, M., Oettel, A., Redlich, A., Costa, S.-D., **Zenclussen, A.C.** (2022):
Enhanced S100B expression in T and B lymphocytes in spontaneous preterm birth and preeclampsia
J. Perinat. Med. **50** (2), 157 - 166
14. Busse, M., **Zenclussen, A.C.** (2022):
IL-10 producing B cells protect against LPS-induced murine preterm birth by promoting PD1- and ICOS-expressing T cells
Cells **11** (17), art. 2690

15. Butturini, A., **Herzprung, P., Lechtenfeld, O.J.**, Alcorlo, P., Benaiges-Fernandez, R., Berlanga, M., Boadella, J., Freixinos Campillo, Z., Gomez, R.M., Sanchez-Montoya, M.M., Urmeneta, J., Romaní, A.M. (2022):
Origin, accumulation and fate of dissolved organic matter in an extreme hypersaline shallow lake
Water Res. **221** , art. 118727
Hauptzuordnung T5; Nebenzuordnung T9
16. Campe, K.-N.J., Redlich, A., **Zenclussen, A.C.**, Busse, M. (2022):
An increased proportion of progesterone receptor A in peripheral B cells from women who ultimately underwent spontaneous preterm birth
J. Reprod. Immunol. **154** , art. 103756
17. Cébron, A., Karpouzias, D.G., Martin-Laurent, F., Morin, S., Palacios, C., **Schmitt-Jansen, M.** (2022):
Editorial: Microbial ecotoxicology advances to improve environmental and human health under global change
Front. Microbiol. **13** , art. 870404
18. Chelangat Ngeno, E., Mbuci, K.E., Chaker Necibi, M., Odhiambo Shikuku, V., Olisah, C., Ongulu, R., Matovu, H., **Ssebugere, P.**, Abushaban, A., Sillanpää, M. (2022):
Sustainable re-utilization of waste materials as adsorbents for water and wastewater treatment in Africa: Recent studies, research gaps, and way forward for emerging economies
Environ. Adv. **9** , art. 100282
19. Chen, S., Klotzbücher, T., **Lechtenfeld, O.J.**, Hong, H., Liu, C., Kaiser, K., Mikutta, C., Mikutta, R. (2022):
Legacy effects of sorption determine the formation efficiency of mineral-associated soil organic matter
Environ. Sci. Technol. **56** (3), 2044 - 2053
20. Crawford, S.E., Brinkmann, M., Ouellet, J.D., Lehmkuhl, F., Reicherter, K., Schwarzbauer, J., Bellanova, P., Letmathe, P., Blank, L.M., Weber, R., **Brack, W.**, van Dongen, J.T., Menzel, L., Hecker, M., Schüttrumpf, H., Hollert, H. (2022):
Remobilization of pollutants during extreme flood events poses severe risks to human and environmental health
J. Hazard. Mater. **421** , art. 126691
21. **Dahley, C., Garessus, E.D.G., Ebert, A., Goss, K.-U.** (2022):
Impact of cholesterol and sphingomyelin on intrinsic membrane permeability
Biochim. Biophys. Acta-Biomembr. **1864** (9), art. 183953

22. **Dey, P.,** Malik, A., Singh, D.K., **Haange, S.-B., von Bergen, M., Jehmlich, N.** (2022):
Insight to the molecular mechanisms underpinning the mycoremediation of multiple metals by proteomic technique
Front. Microbiol. **13** , art. 872576
23. **Ebert, A., Goss, K.U.** (2022):
Screening of 6000 compounds for uncoupling activity: a comparison between a mechanistic biophysical model and the structural alert profiler Mitotox
Toxicol. Sci. **185** (2), 208 - 219
24. **Escher, B.I.,** Lamoree, M., Antignac, J.-P., Scholze, M., Herzler, M., Hamers, T., Jensen, T.K., Audebert, M., Busquet, F., Maier, D., Oelgeschläger, M., Valente, M.J., Boye, H., Schmeisser, S., Dervilly, G., Piumatti, M., Motteau, S., **König, M.,** Renko, K., Margalef, M., Cariou, R., Ma, Y., Treschow, A.F., Kortenkamp, A., Vinggaard, A.M. (2022):
Mixture risk assessment of complex real-life mixtures—The PANORAMIX project
Int. J. Environ. Res. Public Health **19** (20), art. 12990
25. Fahrner, M., Föll, M.C., Grüning, B.A., **Bernt, M.,** Röst, H., Schilling, O. (2022):
Democratizing data-independent acquisition proteomics analysis on public cloud infrastructures via the Galaxy framework
GigaScience **11** , giac005
26. Fernandes, M.L.P., Bastida, F., **Jehmlich, N.,** Martinović, T., Větrovský, T., Baldrian, P., Delgado-Baquerizo, M., Starke, R. (2022):
Functional soil mycobiome across ecosystems
J. Proteomics **252** , art. 104428
27. **Finckh, S.,** Beckers, L.-M., **Busch, W.,** Carmona, E., Dulio, V., **Kramer, L., Krauss, M.,** Posthuma, L., **Schulze, T.,** Slootweg, J., von der Ohe, P.C., **Brack, W.** (2022):
A risk based assessment approach for chemical mixtures from wastewater treatment plant effluents
Environ. Int. **164** , art. 107234
28. **Finckh, S.,** Buchinger, S., **Escher, B.I.,** Hollert, H., **König, M., Krauss, M.,** Leekitratanapisan, W., Schiwy, S., **Schlichting, R.,** Shuliakevich, A., **Brack, W.** (2022):
Endocrine disrupting chemicals entering European rivers: Occurrence and adverse mixture effects in treated wastewater
Environ. Int. **170** , art. 107608
29. **Fischer, F., Schumacher, A., Meyer, N., Fink, B., Bauer, M., Stojanovska, V., Zenclussen, A.C.** (2022):
An old friend with a new face: YB-1 and its role in healthy pregnancy and pregnancy-associated complications
Front. Cell. Dev. Biol. **10** , art. 1039206

30. Fraser, R., **Zenclussen, A.C.** (2022):
Killer timing: The temporal uterine natural killer cell differentiation pathway and implications for female reproductive health
Front. Endocrinol. **13** , art. 904744
31. Fries, C.M., **Haange, S.-B., Rolle-Kampczyk, U.,** Till, A., Lammert, M., Grasser, L., Medawar, E., Dietrich, A., Horstmann, A., **von Bergen, M.,** Fenske, W.K. (2022):
Metabolic profile and metabolite analyses in extreme weight responders to gastric bypass surgery
Metabolites **12** (5), art. 417
32. Fuchte, H.E., Beck, N., Bieg, E., Bayer, V.J., Achten, C., **Krauss, M.,** Schäffer, A., Smith, K.E.C. (2022):
A look down the drain: Identification of dissolved and particle bound organic pollutants in urban runoff waters and sediments
Environ. Pollut. **302** , art. 119047
33. **Ganther, M., Lippold, E.,** Bienert, M.D., **Bouffaud, M.-L., Bauer, M., Baumann, L.,** Bienert, G.P., **Vetterlein, D., Heintz-Buschart, A., Tarkka, M.T.** (2022):
Plant age and soil texture rather than the presence of root hairs cause differences in maize resource allocation and root gene expression in the field
Plants **11** (21), art. 2883
Hauptzuordnung T5; Nebenzuordnung T9
34. Geesink, P., Taubert, M., **Jehlich, N., von Bergen, M.,** Küsel, K. (2022):
Bacterial necromass is rapidly metabolized by heterotrophic bacteria and supports multiple trophic levels of the groundwater microbiome
Microbiol. Spectr. **10** (4), e00437
35. **Genz, P., Reemtsma, T.** (2022):
Polar micropollutants and metals in centrate from dewatered sewage sludge intended for reuse in soilless horticulture
ACS ES&T Water **2** (12), 2548 - 2557
36. Greimel, E., Adams, L., Zsigo, C., Berdel, D., von Berg, A., Koletzko, S., Bauer, C.-P., Schikowski, T., **Herberth, G.,** Heinrich, J., Schulte-Körne, G., Standl, M. (2022):
Psychopathological symptoms as precursors of depressive symptoms in adolescence: a prospective analysis of the GINIplus and LISA birth cohort studies
Soc. Psychiatry Psychiatr. Epidemiol. **57** (8), 1627 - 1639

37. Grosjean, I., Roméo, B., Domdom, M.-A., Belaid, A., D'Andréa, G., Guillot, N., Gherardi, R.K., Gal, J., Milano, G., Marquette, C.H., Hung, R.J., Landi, M.T., Han, Y., Brest, P., **von Bergen, M.**, Klionsky, D.J., Amos, C.I., Hofman, P., Mograbi, B. (2022):
Autophagopathies: from autophagy gene polymorphisms to precision medicine for human diseases
Autophagy **18** (11), 2519 - 2536
38. Grote, M., Boudenne, J.-L., Croué, J.-P., **Escher, B.I.**, von Gunten, U., Hahn, J., Höfer, T., Jenner, H., Jiang, J., Karanfil, T., Khalanski, M., Kim, D., Linders, J., Manasfi, T., Polman, H., Quack, B., Tegtmeier, S., Werschkun, B., Zhang, X., Ziegler, G. (2022):
Inputs of disinfection by-products to the marine environment from various industrial activities: Comparison to natural production
Water Res. **217**, art. 118383
39. Guasch, H., Bernal, S., Bruno, D., Carney Almroth, B., Cocherio, J., Corcoll, N., Cornejo, D., Gacia, E., Kroll, A., Lavoie, I., Ledesma, J.L.J., Lupon, A., Margenat, H., Morin, S., Navarro, E., Ribot, M., Riis, T., **Schmitt-Jansen, M.**, Tlili, A., Martí, E. (2022):
Interactions between microplastics and benthic biofilms in fluvial ecosystems: Knowledge gaps and future trends
Freshw. Sci. **41** (3), 442 - 458
40. Guckert, M., Scheurer, M., Schaffer, M., **Reemtsma, T.**, Nödler, K. (2022):
Combining target analysis with sum parameters—a comprehensive approach to determine sediment contamination with PFAS and further fluorinated substances
Environ. Sci. Pollut. Res. **29** (57), 85802 - 85814
41. Gwak, J.-H., Awala, S.I., Nguyen, N.-L., Yu, W.-J., Yang, H.-Y., **von Bergen, M.**, **Jehmlich, N.**, Kits, K.D., Loy, A., Dunfield, P.F., Dahl, C., Hyun, J.-H., Rhee, S.-K. (2022):
Sulfur and methane oxidation by a single microorganism
Proc. Natl. Acad. Sci. U.S.A. **119** (32), e2114799119
42. **Haange, S.-B.**, Till, A., Bergh, P.-O., Fauler, G., Gigl, M., Löfgren-Sandblom, A., Schaap, F.G., Clavel, T., Trautwein, C., Fenske, W., Kleigrewe, K., Marschall, H.-U., Olde Damink, S.W.M., Moustafa, T., **von Bergen, M.**, **Rolle-Kampczyk, U.** (2022):
Ring trial on quantitative assessment of bile acids reveals a method- and analyte-specific accuracy and reproducibility
Metabolites **12** (7), art. 583

43. **Halbach, K., Aulhorn, S., Lechtenfeld, O.J., Lecluse, M., Leippe, S., Reemtsma, T., Seiwert, B., Wagner, S., König, J., Luckenbach, T.** (2022):
Zebrafish Oatp1d1 acts as a cellular efflux transporter of the anionic herbicide bromoxynil
Chem. Res. Toxicol. **35** (2), 315 - 325
44. **Hanslik, L., Seiwert, B., Huppertsberg, S., Huppertsberg, T.P., Reemtsma, T., Braunbeck, T.** (2022):
Biomarker responses in zebrafish (*Danio rerio*) following long-term exposure to microplastic-associated chlorpyrifos and benzo(k)fluoranthene
Aquat. Toxicol. **245**, art. 106120
45. **Henneberger, L., Mühlenbrink, M., Klüver, N., Escher, B.** (2022):
Trout and human plasma protein binding of selected pharmaceuticals informs the fish plasma model
Environ. Toxicol. Chem. **41** (3), 559 - 568
46. **Hoeger, A.-L., Jehmlich, N., Kipping, L., Griehl, C., Noll, M.** (2022):
Associated bacterial microbiome responds opportunistic once algal host *Scenedesmus vacuolatus* is attacked by endoparasite *Amoebophilidium protococcarum*
Sci. Rep. **12**, art. 13187
47. **Huber, C., Krauss, M., Reinstadler, V., Denicolò, S., Mayer, G., Schulze, T., Brack, W., Oberacher, H.** (2022):
In silico deconjugation of glucuronide conjugates enhances tandem mass spectra library annotation of human samples
Anal. Bioanal. Chem. **414** (8), 2629 - 2640
48. **Huber, C., Nijssen, R., Mol, H., Antignac, J.P., Krauss, M., Brack, W., Wagner, K., Debrauwer, L., Vitale, C.M., Price, E.J., Klanova, J., Garlito Molina, B., Leon, N., Pardo, O., Fernández, S.F., Szigeti, T., Középesy, S., Šulc, L., Čupr, P., Mårtinson, I., Akülova, L., Ottenbros, I., Vermeulen, R., Vlaanderen, J., Luijten, M., Lommen, A.** (2022):
A large scale multi-laboratory suspect screening of pesticide metabolites in human biomonitoring: From tentative annotations to verified occurrences
Environ. Int. **168**, art. 107452
49. **Huchthausen, J., Henneberger, L., Mälzer, S., Nicol, B., Sparham, C., Escher, B.I.** (2022):
High-throughput assessment of the abiotic stability of test chemicals in *in vitro* bioassays
Chem. Res. Toxicol. **35** (5), 867 - 879

50. Hund-Rinke, K., Broßell, D., Eilebrecht, S., Schlich, K., Schlinkert, R., **Steska, T.**, Wolf, C., **Kühnel, D.** (2022):
Prioritising nano- and microparticles: identification of physicochemical properties relevant for toxicity to *Raphidocelis subcapitata* and *Daphnia magna*
Environ. Sci. Eur. **34** , art. 116
51. Jacoby, C., Ebenau-Jehle, C., Saum, K., **Jehmlich, N.**, **von Bergen, M.**, Brüls, T., Boll, M. (2022):
Genes and enzymes involved in the biodegradation of the quaternary carbon compound pivalate in the denitrifying *Thauera humireducens* strain PIV-1
Environ. Microbiol. **24** (7), 3181 - 3194
52. **Jennings, E.**, **Kremser, A.**, **Han, L.**, **Reemtsma, T.**, **Lechtenfeld, O.J.** (2022):
Discovery of polar ozonation byproducts via direct injection of effluent organic matter with online LC-FT-ICR-MS
Environ. Sci. Technol. **56** (3), 1894 - 1904
53. **Jensen Pedersen, K.**, **Haange, S.-B.**, Žížalová, K., Viehof, A., Clavel, T., Leniček, M., **Engelmann, B.**, **Wick, L.Y.**, Schaap, F.G., **Jehmlich, N.**, **Rolle-Kampczyk, U.**, **von Bergen, M.** (2022):
Eggerthella lenta DSM 2243 alleviates bile acid stress response in *Clostridium ramosum* and *Anaerostipes caccae* by transformation of bile acids
Microorganisms **10** (10), art. 2025
Hauptzuordnung T9; Nebenzuordnung T7
54. **Junge, K.M.**, **Buchenauer, L.**, **Strunz, S.**, **Seiwert, B.**, Thürmann, L., **Rolle-Kampczyk, U.E.**, **Röder, S.**, Borte, M., Kiess, W., **von Bergen, M.**, Simon, J.C., **Zenclussen, A.C.**, Schöneberg, T., Stangl, G.I., **Herberth, G.**, Lehmann, I., **Reemtsma, T.**, **Polte, T.** (2022):
Effects of exposure to single and multiple parabens on asthma development in an experimental mouse model and a prospective cohort study
Sci. Total Environ. **814** , art. 152676
55. Juskiene, I., Prokopciuk, N., **Franck, U.**, Valiulis, A., Valskys, V., Mesceriakova, V., Kvedariene, V., Valiulyte, I., Poluzioroviene, E., Sauliene, I., Valiulis, A. (2022):
Indoor air pollution effects on pediatric asthma are submicron aerosol particle-dependent
Eur. J. Pediatr. **181** (6), 2469 - 2480

56. **Kamjunke, N., Beckers, L.-M., Herzsprung, P., von Tümpling, W., Lechtenfeld, O., Tittel, J., Risse-Buhl, U., Rode, M., Wachholz, A., Kallies, R., Schulze, T., Krauss, M., Brack, W., Comero, S., Gawlik, B.M., Skejo, H., Tavazzi, S., Mariani, G., Borchardt, D., Weitere, M.** (2022):
Lagrangian profiles of riverine autotrophy, organic matter transformation, and micropollutants at extreme drought
Sci. Total Environ. **828**, art. 154243
Hauptzuordnung T5; Nebenzuordnungen T4, T9
57. Kaplan, A., Zelicha, H., Meir, A.Y., Rinott, E., Tsaban, G., Levakov, G., Prager, O., Salti, M., Yovell, Y., Ofer, J., **Huhn, S.**, Beyer, F., Witte, V., Villringer, A., Meiran, N., Emesh, T.B., Kovacs, P., **von Bergen, M.**, Ceglarek, U., Blüher, M., Stumvoll, M., Hu, F.B., Stampfer, M.J., Friedman, A., Shelef, I., Avidan, G., Shai, I. (2022):
The effect of a high-polyphenol Mediterranean diet (Green-MED) combined with physical activity on age-related brain atrophy: the Dietary Intervention Randomized Controlled Trial Polyphenols Unprocessed Study (DIRECT PLUS)
Am. J. Clin. Nutr. **115** (5), 1270 - 1281
58. Kempf, E., Landgraf, K., Stein, R., Hanschkow, M., Hilbert, A., Abou Jamra, R., Boczki, P., **Herberth, G.**, Kühnapfel, A., Tseng, Y.-H., Stäubert, C., Schöneberg, T., Kühnen, P., Rayner, N.W., Zeggini, E., Kiess, W., Blüher, M., Körner, A. (2022):
Aberrant expression of agouti signaling protein (*ASIP*) as a cause of monogenic severe childhood obesity
Nat. Metab. **4**, 1697 - 1712
59. **Kipping, L.**, Gossner, M.M., **Koschorreck, M.**, Muszynski, S., Maurer, F., Weiser, W., **Jehmlich, N.**, Noll, M. (2022):
Emission of CO₂ and CH₄ from 13 deadwood tree species is linked to tree species identity and management intensity in forest and grassland habitats
Glob. Biogeochem. Cycles **36** (5), e2021GB007143
Hauptzuordnung T5; Nebenzuordnung T9
60. **Kipping, L.**, Maurer, F., Gossner, M.M., Muszynski, S., Kahl, T., Kellner, H., Weiser, W.W., **Jehmlich, N.**, Noll, M. (2022):
Drivers of deadwood decay of 13 temperate tree species are similar between forest and grassland habitats
Front. For. Glob. Change **5**, art. 1020737
61. **Knecht, C.A., Krüger, M., Kellmann, S., Mäusezahl, I., Möder, M., Adelowo, O.O., Vollmers, J., Kaster, A.-K., Nivala, J., Müller, J.A.** (2022):
Cellular stress affects the fate of microbial resistance to folate inhibitors in treatment wetlands
Sci. Total Environ. **845**, art. 157318
Hauptzuordnung T7; Nebenzuordnung T9

62. König, R., Kiebist, J., Kalmbach, J., Herzog, R., Schmidtke, K.-U., Kellner, H., Ullrich, R., **Jehmlich, N.**, Hofrichter, M., Scheibner, K. (2022):
Novel unspecific peroxygenase from *Truncatella angustata* catalyzes the synthesis of bioactive lipid mediators
Microorganisms **10** (7), art. 1267
63. Kraft, B., **Jehmlich, N.**, Larsen, M., Bristow, L.A., Könneke, M., Thamdrup, B., Canfield, D.E. (2022):
Oxygen and nitrogen production by an ammonia-oxidizing archaeon
Science **375** (6576), 97 - 100
64. **Krause, J.L., Engelmann, B., Nunes da Rocha, U., Pierzchalski, A.,** Chang, H.D., **Zenclussen, A.C., von Bergen, M., Rolle-Kampczyk, U., Herberth, G.** (2022):
MAIT cell activation is reduced by direct and microbiota-mediated exposure to bisphenols
Environ. Int. **158** , art. 106985
Hauptzuordnung T9; Nebenzuordnung T7
65. **Kretschmer, T.**, Turnwald, E.-M., Janoschek, R., Wohlfarth, M., Handwerk, M., Dötsch, J., Hucklenbruch-Rother, E., Appel, S. (2022):
Treatment of high fat diet-induced obese pregnant mice with IL-6 receptor antibody does not ameliorate placental function and fetal growth restriction
Am. J. Reprod. Immunol. **88** (1), e13564
66. **Krieg, L.,** Didt, K., **Karkossa, I.,** Bernhart, S.H., Kehr, S., Subramanian, N., Lindhorst, A., Schaudinn, A., Tabei, S., Keller, M., Stumvoll, M., Dietrich, A., **von Bergen, M.,** Stadler, P.F., Laurencikiene, J., Krüger, M., Blüher, M., Gericke, M., **Schubert, K.,** Kovacs, P., Chakaroun, R., Massier, L. (2022):
Multiomics reveal unique signatures of human epiploic adipose tissue related to systemic insulin resistance
Gut **71** (11), 2179 - 2193
67. Lai, A., Clark, A.M., **Escher, B.I.,** Fernandez, M., McEwen, L.R., Tian, Z., Wang, Z., Schymanski, E.L. (2022):
The next frontier of environmental unknowns: Substances of unknown or variable composition, complex reaction products, or biological materials (UVCBs)
Environ. Sci. Technol. **56** (12), 7448 - 7466
68. **Lee, J., Escher, B.I., Scholz, S., Schlichting, R.** (2022):
Inhibition of neurite outgrowth and enhanced effects compared to baseline toxicity in SH-SY5Y cells
Arch. Toxicol. **96** (4), 1039 - 1053

69. **Lee, J., Huchthausen, J., Schlichting, R., Scholz, S., Henneberger, L., Escher, B.I.** (2022):
Validation of an SH-SY5Y cell-based acetylcholinesterase inhibition assay for water quality assessment
Environ. Toxicol. Chem. **41** (12), 3046 - 3057
70. **Lee, J., Schlichting, R., König, M., Scholz, S., Krauss, M., Escher, B.I.** (2022):
Monitoring mixture effects of neurotoxicants in surface water and wastewater treatment plant effluents with neurite outgrowth inhibition in SH-SY5Y cells
ACS Environ. Au **2** (6), 523 - 535
71. **Lentz, L.S., Stutz, A.J., Meyer, N., Schubert, K., Karkossa, I., von Bergen, M., Zenclussen, A.C., Schumacher, A.** (2022):
Human chorionic gonadotropin promotes murine Treg cells and restricts pregnancy-harmful proinflammatory Th17 responses
Front. Immunol. **13** , art. 989247
72. **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}
Sci. Total Environ. **848** , art. 157642
73. **Lips, S., Larras, F., Schmitt-Jansen, M.** (2022):
Community metabolomics provides insights into mechanisms of pollution-induced community tolerance of periphyton
Sci. Total Environ. **824** , art. 153777
74. **Lokossou, G.A.G., Kouakanou, L., Schumacher, A., Zenclussen, A.C.** (2022):
Human breast milk: From food to active immune response with disease protection in infants and mothers
Front. Immunol. **13** , art. 849012
75. **Machate, O., Schmeller, D.S., Loyau, A., Paschke, A., Krauss, M., Carmona, E., Schulze, T., Moyer, A., Lutz, K., Brack, W.** (2022):
Complex chemical cocktail, containing insecticides diazinon and permethrin, drives acute toxicity to crustaceans in mountain lakes
Sci. Total Environ. **828** , art. 154456
76. **Marb, A., Libuda, L., Standl, M., Koletzko, S., Bauer, C.-P., Schikowski, T., Berdel, D., von Berg, A., Herberth, G., Bühlmeier, J., Harris, C.P.** (2022):
Obesogenic eating behaviour and dietary intake in German children and adolescents: results from the GINIplus and LISA birth cohort studies
Eur. J. Clin. Nutr. **76** , 1478 - 1485

77. Markevych, I., Astell-Burt, T., Altug, H., Triebner, K., Standl, M., Flexeder, C., Heinrich, J., Schikowski, T., Koletzko, S., **Herberth, G.**, Bauer, C.-P., von Berg, A., Berdel, D., Feng, X. (2022):
Residential green space and age at menarche in German and Australian adolescent girls: A longitudinal study
Int. J. Hyg. Environ. Health. **240** , 113917
78. Meijer, M., Klein, M., Caramaschi, D., Mulder, R., Cosin, M., Lu, X., Zhang, Y., **Röder, S.**, Zilich, L., Huels, A., Hartman, C., Snieder, H., Bustamante, M., **Herberth, G.**, Franke, B., Copeland, B., Aberg, K., van den Oord, E. (2022):
Meta-analysis of cell type-specific DNA methylation of childhood attention-deficit/hyperactivity disorder symptoms
Biol. Psychiatry **91** (9 (Suppl.)), S111 - S112
79. Michalaki, A., McGivern, A.R., Poschet, G., Büttner, M., **Altenburger, R.**, Grintzalis, K. (2022):
The effects of single and combined stressors on daphnids — Enzyme markers of physiology and metabolomics validate the impact of pollution
Toxics **10** (10), art. 604
80. Morales, D.A., **Massei, R.**, **Schulze, T.**, **Krauss, M.**, **Brack, W.**, De Aragão Umbuzeiro, G. (2022):
Mutagenicity of the Danube River: The contribution of liquid phase and particulate suspended matter
Environ. Mol. Mutagen. **63** (3), 162 - 168
81. Morin-Crini, N., Lichtfouse, E., Liu, G., Balaram, V., Ribeiro, A.R.L., Lu, Z., Stock, F., **Carmona, E.**, Teixeira, M.R., Picos-Corrales, L.A., Moreno-Piraján, J.C., Giraldo, L., Li, C., Pandey, A., Hocquet, D., Torri, G., Crini, G. (2022):
Worldwide cases of water pollution by emerging contaminants: a review
Environ. Chem. Lett. **20** (4), 2311 - 2338
82. Münzker, J., Haase, N., Till, A., Sucher, R., **Haange, S.-B.**, Nemetschke, L., Gnad, T., Jäger, E., Chen, J., Riede, S.J., Chakaroun, R., Massier, L., Kovacs, P., Ost, M., **Rolle-Kampczyk, U.**, **Jehlich, N.**, Weinert, J., Heiker, J.T., Klötting, N., Seeger, G., Morawski, M., Keitel, V., Pfeifer, A., **von Bergen, M.**, Heeren, J., Krügel, U., Fenske, W.K. (2022):
Functional changes of the gastric bypass microbiota reactivate thermogenic adipose tissue and systemic glucose control via intestinal FXR-TGR5 crosstalk in diet-induced obesity
Microbiome **10** , art. 96

83. Murthy, S., **Karkossa, I.**, Schmidt, C., Hoffmann, A., Hagemann, T., Rothe, K., Seifert, O., Anderegg, U., **von Bergen, M., Schubert, K.**, Rossol, M. (2022): Danger signal extracellular calcium initiates differentiation of monocytes into SPP1/osteopontin-producing macrophages
Cell Death Dis. **13**, art. 53
84. **Nagel, M.**, Moretti, R., Paschke, R., **von Bergen, M.**, Meiler, J., **Kalkhof, S.** (2022): Integrative model of the FSH receptor reveals the structural role of the flexible hinge region
Structure **30** (10), 1424 - 1431.e3
85. Neale, P.A., **Escher, B.I.**, de Baat, M.L., Dechesne, M., Deere, D.A., Enault, J., Kools, S.A.E., Loret, J.-F., Smeets, P.W.M.H., Leusch, F.D.L. (2022): Effect-based monitoring to integrate the mixture hazards of chemicals into water safety plans
J. Water Health **20** (12), 1721 - 1732
86. Neuwald, I.J., Hübner, D., Wiegand, H.L., Valkov, V., Borchers, U., Nödler, K., Scheurer, M., Hale, S.E., Arp, H.P.H., **Zahn, D.** (2022): Ultra-short-chain PFASs in the sources of German drinking water: Prevalent, overlooked, difficult to remove, and unregulated
Environ. Sci. Technol. **56** (10), 6380 - 6390
87. **Niu, L., Henneberger, L., Huchthausen, J., Krauss, M., Ogefere, A., Escher, B.I.** (2022): pH-dependent partitioning of ionizable organic chemicals between the silicone polymer polydimethylsiloxane (PDMS) and water
ACS Environ. Au **2** (3), 253 - 262
88. **Nöth, J., Michaelis, P., Busch, W., Scholz, S.** (2022): Analysis vascular disruptors in zebrafish embryos as an endpoint to predict developmental toxicity
Toxicol. Lett. **368** (Suppl.), S34 - S35
89. Nováková, Z., Novák, J., Bittner, M., Čupr, P., Příbylová, P., Kukučka, P., Smutná, M., **Escher, B.I.**, Demirtepe, H., Miralles-Marco, A., Hilscherová, K. (2022): Toxicity to bronchial cells and endocrine disruptive potentials of indoor air and dust extracts and their association with multiple chemical classes
J. Hazard. Mater. **424, Part A**, art. 127306
90. **Ortmann, J., Altenburger, R., Scholz, S., Luckenbach, T.** (2022): Photomotor response data analysis approach to assess chemical neurotoxicity with the zebrafish embryo
ALTEX-Altern. Anim. Exp. **39** (1), 82 - 94

91. Ostrovsky, A.E., Mahmoud, A., Lonie, A., Syme, A., Fouilloux, A., Bretaudeau, A., Nekrutenko, A., Kumar, A., Eschenlauer, A.C., DeSanto, A.D., Guerler, A., Serrano-Solano, B., Batut, B., Grüning, B.A., Langhorst, B.W., Carr, B., Blankenberg, D., Goecks, J., **Bernt, M.**, Schatz, M.C., The Galaxy Community (2022): The Galaxy platform for accessible, reproducible and collaborative biomedical analyses: 2022 update
Nucleic Acids Res. **50** (W1), W345 - W351
92. Painsi, A., Campia, I., Cronin, M.T.D., Asturiol, D., Ceriani, L., Exner, T.E., Gao, W., Gomes, C., Kruisselbrink, J., Martens, M., Meek, M.E.B., Pamies, D., Pletz, J., **Scholz, S., Schüttler, A.**, Spînu, N., Villeneuve, D.L., Wittwehr, C., Worth, A., Luijten, M. (2022):
Towards a qAOP framework for predictive toxicology - Linking data to decisions
Comput. Toxicol. **21** , art. 100195
93. Perino, A., Pereira, H.M., **Felipe-Lucia, M.**, Kim, H., Kühl, H.S., **Marselle, M.R.**, Meya, J.N., Meyer, C., Navarro, L.M., van Klink, R., Albert, G., Barratt, C.D., Bruelheide, H., Cao, Y., **Chamoïn, A., Darbi, M.**, Dornelas, M., Eisenhauer, N., Essl, F., Farwig, N., **Förster, J.**, Freyhof, J., Geschke, J., Gottschall, F., Guerra, C., Haase, P., Hickler, T., Jacob, U., Kastner, T., **Korell, L., Kühn, I.**, Lehmann, G.U.C., Lenzner, B., Marques, A., **Motivans Švara, E.**, Quintero, L.C., Pacheco, A., Popp, A., **Rouet-Leduc, J.**, Schnabel, F., Siebert, J., Staude, I.R., Trogisch, S., **Švara, V.**, Svenning, J.-C., **Pe'er, G., Raab, K., Rakosy, D., Vandewalle, M.**, Werner, A.S., Wirth, C., Xu, H., Yu, D., **Zinngrebe, Y., Bonn, A.** (2022):
Biodiversity post-2020: Closing the gap between global targets and national-level implementation
Conserv. Lett. **15** (2), e12848
Hauptzuordnung T5; Nebenzuordnung T9
94. Pertzborn, D., Arolt, C., Ernst, G., **Lechtenfeld, O.J., Kaesler, J.**, Pelzel, D., Guntinas-Lichius, O., von Eggeling, F., Hoffmann, F. (2022):
Multi-class cancer subtyping in salivary gland carcinomas with MALDI imaging and deep learning
Cancers **14** (17), art. 4342
95. Pistocchi, A., Alygizakis, N.A., **Brack, W.**, Boxall, A., Cousins, I.T., Drewes, J.E., **Finckh, S.**, Gallé, T., Launay, M.A., McLachlan, M.S., Petrovic, M., **Schulze, T.**, Slobodnik, J., Ternes, T., van Wezel, A., Verlicchi, P., Whalley, C. (2022):
European scale assessment of the potential of ozonation and activated carbon treatment to reduce micropollutant emissions with wastewater
Sci. Total Environ. **848** , art. 157124

96. **Polst, B.H.,** Hilt, S., Stibor, H., Hölker, F., Allen, J., Vijayaraj, V., Kipferler, N., Leflaive, J., Gross, E.M., **Schmitt-Jansen, M.** (2022): Warming lowers critical thresholds for multiple stressor-induced shifts between aquatic primary producers
Sci. Total Environ. **838, Part 4** , art. 156511
97. **Puiggené, Ò., Cárdenas Espinosa, M.J., Schlosser, D.,** Thies, S., **Jehmlich, N., Kappelmeyer, U., Schreiber, S.,** Wibberg, D., Kalinowski, J., **Harms, H., Heipieper, H.J., Eberlein, C.** (2022): Extracellular degradation of a polyurethane oligomer involving outer membrane vesicles and further insights on the degradation of 2,4-diaminotoluene in *Pseudomonas capeferrum* TDA1
Sci. Rep. **12** , art. 2666
Hauptzuordnung T7; Nebenzuordnung T9
98. **Qin, W., Stärk, H.-J., Müller, S., Reemtsma, T.** (2022): Exploring the extent of phosphorus and heavy metal uptake by single cells of *Saccharomyces cerevisiae* and their effects on intrinsic elements by SC-ICP-TOF-MS
Front. Microbiol. **13** , art. 870931
Hauptzuordnung T9; Nebenzuordnung T7
99. Rauh, D., Blankenburg, C., Fischer, T.G., Jung, N., Kuhn, S., Schatzschneider, U., **Schulze, T.,** Neumann, S. (2022): Data format standards in analytical chemistry
Pure Appl. Chem. **94** (6), 725 - 736
100. **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
Environ. Sci. Eur. **34** , art. 65
101. **Reiter, E.B., Escher, B.I.,** Siebert, U., **Jahnke, A.** (2022): Activation of the xenobiotic metabolism and oxidative stress response by mixtures of organic pollutants extracted with *in-tissue* passive sampling from liver, kidney, brain and blubber of marine mammals
Environ. Int. **165** , art. 107337
102. **Riesbeck, S., Petruschke, H., Rolle-Kampczyk, U.,** Schori, C., Ahrens, C.H., **Eberlein, C., Heipieper, H.J., von Bergen, M., Jehmlich, N.** (2022): Adaptation and resistance: How *Bacteroides thetaiotaomicron* copes with the bisphenol A substitute bisphenol F
Microorganisms **10** (8), art. 1610
Hauptzuordnung T9; Nebenzuordnung T7

103. Robitaille, J., Denslow, N.D., **Escher, B.I.**, Kurita-Oyamada, H.G., Marlatt, V., Martyniuk, C.J., Navarro-Martín, L., Prosser, R., Sanderson, T., Yargeau, V., Langlois, V.S. (2022):
Towards regulation of Endocrine Disrupting chemicals (EDCs) in water resources using bioassays – A guide to developing a testing strategy
Environ. Res. **205** , art. 112483
104. **Röder, S., Herberth, G., Zenclussen, A.C., Bauer, M.** (2022):
EpiVisR: exploratory data analysis and visualization in epigenome-wide association analyses
BMC Bioinformatics **23** , art. 292
105. Rohner, S., Morell, M., Wohlsein, P., Stürznickel, J., **Reiter, E.B., Jahnke, A.**, Prenger-Berninghoff, E., Ewers, C., Walther, G., Striewe, L.C., Failla, A.V., Siebert, U. (2022):
Fatal aspergillosis and evidence of unrelated hearing loss in a harbor porpoise (*Phocoena phocoena*) from the German Baltic Sea
Front. Mar. Sci. **9** , art. 958019
106. Romero Perez, R.V., Zarzycka, A., Preussner, M., **Fischer, F.**, Roth, K., Keber, C.U., Suryamohan, K., Raifer, H., Luu, M., Leister, H., Bertrams, W., Klein, M., Shams-Eldin, H., Jacob, R., Mollenkopf, H.-J., Rajalingam, K., Visekruna, A., Steinhoff, U. (2022):
A defined bacterial community restores immunity in germ-free mice via maturation of the intestinal vascular system
Eur. J. Immunol. **52** (S1), 49 - 50
107. Romero, R., Zarzycka, A., Preussner, M., **Fischer, F.**, Hain, T., Herrmann, J.-P., Roth, K., Keber, C.U., Suryamohan, K., Raifer, H., Luu, M., Leister, H., Bertrams, W., Klein, M., Shams-Eldin, H., Jacob, R., Mollenkopf, H.-J., Rajalingam, K., Visekruna, A., Steinhoff, U. (2022):
Selected commensals educate the intestinal vascular and immune system for immunocompetence
Microbiome **10** , art. 158
108. Rougé, V., Shin, J., Nguyen, P.T.T.H., Nguyen, D., Lee, W., **Escher, B.I.**, Lee, Y. (2022):
Nitriles as main products from the oxidation of primary amines by ferrate(VI): Kinetics, mechanisms and toxicological implications for nitrogenous disinfection byproduct control
Water Res. **209** , art. 117881
109. **Rummel, C.D., Schäfer, H., Jahnke, A.**, Arp, H.P.H., **Schmitt-Jansen, M.** (2022):
Effects of leachates from UV-weathered microplastic on the microalgae *Scenedesmus vacuolatus*
Anal. Bioanal. Chem. **414** (4), 1469 - 1479

110. Saborowski, R., Korez, Š., **Riesbeck, S.**, Weidung, M., Bickmeyer, U., Gutow, L. (2022): Shrimp and microplastics: A case study with the Atlantic ditch shrimp *Palaemon varians* *Ecotox. Environ. Safe.* **234**, art. 113394
111. Sallam, I.E., **Rolle-Kampczyk, U.**, **Schäpe, S.S.**, Zaghoul, S.S., El Dine, R.S., Shao, P., **von Bergen, M.**, Farag, M.A. (2022): Evaluation of antioxidant activity and biotransformation of *Opuntia ficus* fruit: The effect of in vitro and ex vivo gut microbiota metabolism *Molecules* **27** (21), art. 7568
112. Sammallahti, S., Koopman-Verhoeff, M.E., Binter, A.-C., Mulder, R.H., Cabré-Riera, A., Kvist, T., Malmberg, A.L.K., Pesce, G., Plancoulaine, S., Heiss, J.A., Rifas-Shiman, S.L., **Röder, S.W.**, Starling, A.P., Wilson, R., Guerlich, K., Haftorn, K.L., Page, C.M., Luik, A.I., Tiemeier, H., Felix, J.F., Raikkonen, K., Lahti, J., Relton, C.L., Sharp, G.C., Waldenberger, M., Grote, V., Heude, B., Annesi-Maesano, I., Hivert, M.-F., **Zenclussen, A.C.**, **Herberth, G.**, Dabelea, D., Grazuleviciene, R., Vafeiadi, M., Håberg, S.E., London, S.J., Guxens, M., Richmond, R.C., Cecil, C.A.M. (2022): Longitudinal associations of DNA methylation and sleep in children: a meta-analysis *Clin. Epigenetics* **14**, art. 83
113. Sangkham, S., **Faikhaw, O.**, Munkong, N., Sakunkoo, P., Arunlertaree, C., Chavali, M., Mousazadeh, M., Tiwari, A. (2022): A review on microplastics and nanoplastics in the environment: Their occurrence, exposure routes, toxic studies, and potential effects on human health *Mar. Pollut. Bull.* **181**, art. 113832
114. Sanz, C.M., Ibarra, J., Rubbini, D., Hsieh, J.-H., Ellis, L., Alzualde, A., Truong, L., **Klüver, N.**, Muriana, A., Ryan, K., Behl, M., Molina, B., Legradi, J., Padilla, S., Woodland, C., Tanguay, R., Hill, B., Shafer, T., Sachana, M., Terriente, J., Di Donato, V., Schiavone, V., Hessel, E. (2022): Zebrafish, a novel key player for human risk assessment: latest advances on developmental neurotoxicity from an international consortium *Toxicol. Lett.* **368** (Suppl.), S235 - S236
115. **Schaffert, A.**, **Karkossa, I.**, Ueberham, E., **Schlichting, R.**, **Walter, K.**, **Arnold, J.**, Blüher, M., Heiker, J.T., Lehmann, J., Wabitsch, M., **Escher, B.I.**, **von Bergen, M.**, **Schubert, K.** (2022): Di-(2-ethylhexyl) phthalate substitutes accelerate human adipogenesis through PPAR γ activation and cause oxidative stress and impaired metabolic homeostasis in mature adipocytes *Environ. Int.* **164**, art. 107279

116. **Schicketanz, J., Röder, S., Herberth, G., Kabisch, S.,** Lakes, T. (2022):
On foot or by car: what determines children's active school travel?
Child. Geogr. **20** (2), 174 - 188
Hauptzuordnung T5; Nebenzuordnung T9
117. Schmeller, D.S., Urbach, D., Bates, K., Catalan, J., Cogălniceanu, D., Fisher, M.C., **Friesen, J.,** Füreder, L., Gaube, V., Haver, M., Jacobsen, D., Le Roux, G., Lin, Y.-P., Loyau, A., **Machate, O.,** Mayer, A., Palomo, I., Plutzar, C., Sentenac, H., Sommaruga, R., Tiberti, R., Ripple, W.J. (2022):
Scientists' warning of threats to mountains
Sci. Total Environ. **853** , art. 158611
Hauptzuordnung T7; Nebenzuordnung T9
118. Schmitz, K., Turnwald, E.-M., **Kretschmer, T.,** Janoschek, R., Bae-Gartz, I., Voßbrecher, K., Kammerer, M.D., Köninger, A., Gellhaus, A., Handwerk, M., Wohlfarth, M., Gründemann, D., Hucklenbruch-Rother, E., Dötsch, J., Appel, S. (2022):
Metformin prevents key mechanisms of obesity-related complications in visceral white adipose tissue of obese pregnant mice
Nutrients **14** (11), art. 2288
119. Schneeweiss, A., Schreiner, V.C., **Reemtsma, T., Liess, M.,** Schäfer, R.B. (2022):
Potential propagation of agricultural pesticide exposure and effects to upstream sections in a biosphere reserve
Sci. Total Environ. **836** , art. 155688
120. **Scholz, S., Brack, W., Escher, B.I., Hackermüller, J., Liess, M., von Bergen, M., Wick, L.Y., Zenclessen, A.C., Altenburger, R.** (2022):
The EU chemicals strategy for sustainability: an opportunity to develop new approaches for hazard and risk assessment
Arch. Toxicol. **96** (8), 2381 - 2386
Hauptzuordnung T9; Nebenzuordnung T7
121. **Scholz, S.,** Nichols, J.W., **Escher, B.I.,** Ankley, G.T., **Altenburger, R.,** Blackwell, B., **Brack, W.,** Burkhard, L., Collette, T.W., Doering, J.A., Ekman, D., Fay, K., **Fischer, F., Hackermüller, J.,** Hoffman, J.C., Lai, C., **Leuthold, D.,** Martinovic-Weigelt, D., **Reemtsma, T.,** Pollesch, N., Schroeder, A., **Schüürmann, G., von Bergen, M.** (2022):
The eco-exposome concept: Supporting an integrated assessment of mixtures of environmental chemicals
Environ. Toxicol. Chem. **41** (1), 30 - 45
122. Schöne, C., Poehlein, A., **Jehlich, N.,** Adlung, N., Daniel, R., **von Bergen, M.,** Scheller, S., Rother, M. (2022):
Deconstructing *Methanosarcina acetivorans* into an acetogenic archaeon
Proc. Natl. Acad. Sci. U.S.A. **119** (2), e2113853119

123. **Schor, J.**, Scheibe, P., **Bernt, M.**, **Busch, W.**, Lai, C., **Hackermüller, J.** (2022):
AI for predicting chemical-effect associations at the chemical universe level —
deepFPlearn
Brief. Bioinform. **23** (5), bbac257
124. Schroeter, S.A., Eveillard, D., Chaffron, S., Zoppi, J., Kampe, B., **Lohmann, P.**,
Jehlich, N., **von Bergen, M.**, Sanchez-Arcos, C., Pohnert, G., Taubert, M., Küsel, K.,
Gleixner, G. (2022):
Microbial community functioning during plant litter decomposition
Sci. Rep. **12** , art. 7451
125. Schulte, B., **König, M.**, **Escher, B.I.**, Wittenburg, S., Proj, M., Wolf, V., Lemke, C.,
Schnakenburg, G., Sosič, I., Streeck, H., Müller, C.E., Gütschow, M., Steinebach, C.
(2022):
Front Cover: Andrographolide derivatives target the KEAP1/NRF2 axis and possess
potent anti-SARS-CoV-2 activity (ChemMedChem 5/2022)
ChemMedChem **17** (5), e202200088
126. Schulte, B., **König, M.**, **Escher, B.I.**, Wittenburg, S., Proj, M., Wolf, V., Lemke, C.,
Schnakenburg, G., Sosič, I., Streeck, H., Müller, C.E., Gütschow, M., Steinebach, C.
(2022):
Andrographolide derivatives target the KEAP1/NRF2 axis and possess potent
anti-SARS-CoV-2 activity
ChemMedChem **17** (5), e202100732
127. Schultz, M., **Krause, S.**, Brinkmann, M. (2022):
Validation of methods for *in vitro*–*in vivo* extrapolation using hepatic clearance
measurements in isolated perfused fish livers
Environ. Sci. Technol. **56** (17), 12416 - 12423
128. **Schunck, F.**, **Liess, M.** (2022):
Time between sequential exposures to multiple stress turns antagonism into synergism
Environ. Sci. Technol. **56** (20), 14660 - 14667
129. **Schütte, O.**, **Bachmann, L.**, Shivappa, N., Hebert, J.R., Felix, J.F., **Röder, S.W.**,
Sack, U., Borte, M., Kiess, W., **Zenclussen, A.C.**, Stangl, G.I., **Herberth, G.**, **Junge,**
K.M. (2022):
Pro-inflammatory diet pictured in children with atopic dermatitis or food allergy:
nutritional data of the LiNA cohort
Front. Nutr. **9** , art. 868872
130. **Seiwert, B.**, **Nihemaiti, M.**, Troussier, M., **Weyrauch, S.**, **Reemtsma, T.** (2022):
Abiotic oxidative transformation of 6-PPD and 6-PPD quinone from tires and occurrence
of their products in snow from urban roads and in municipal wastewater
Water Res. **212** , art. 118122

131. Shah, G.M., Amin, M., Shahid, M., Ahmad, I., Khalid, S., Abbas, G., Imran, M., Naeem, M.A., **Shahid, N.** (2022):
Toxicity of ZnO and Fe₂O₃ nano-agro-chemicals to soil microbial activities, nitrogen utilization, and associated human health risks
Environ. Sci. Eur. **34** , art. 106
132. Shuliakevich, A., **Muz, M.**, Oehlmann, J., Nagengast, L., Schröder, K., Wolf, Y., Brückner, I., **Massei, R., Brack, W.**, Hollert, H., Schiwy, S. (2022):
Assessing the genotoxic potential of freshwater sediments after extensive rain events – Lessons learned from a case study in an effluent-dominated river in Germany
Water Res. **209** , art. 117921
133. Shuliakevich, A., Schröder, K., Nagengast, L., **Muz, M.**, Pipal, M., Brückner, I., Hilscherova, K., **Brack, W.**, Schiwy, S., Hollert, H. (2022):
Morphological and behavioral alterations in zebrafish larvae after exposure to contaminated river sediments collected in different weather conditions
Sci. Total Environ. **851, Part 1** , art. 157922
134. Shuliakevich, A., Schroeder, K., Nagengast, L., Wolf, Y., Brückner, I., **Muz, M.**, Behnisch, P.A., Hollert, H., Schiwy, S. (2022):
Extensive rain events have a more substantial impact than advanced effluent treatment on the endocrine-disrupting activity in an effluent-dominated small river
Sci. Total Environ. **807, Part 2** , art. 150887
135. Sigmund, G., Arp, H.P.H., Aumeier, B.M., Bucheli, T.D., Chefetz, B., Chen, W., Droge, S.T.J., Endo, S., **Escher, B.I.**, Hale, S.E., Hofmann, T., Pignatello, J., **Reemtsma, T.**, Schmidt, T.C., Schönsee, C.D., Scheringer, M. (2022):
Sorption and mobility of charged organic compounds: How to confront and overcome limitations in their assessment
Environ. Sci. Technol. **56** (8), 4702 - 4710
136. Simonetti, S., Zupo, V., Gambi, M.C., **Luckenbach, T.**, Corsi, I. (2022):
Unraveling cellular and molecular mechanisms of acid stress tolerance and resistance in marine species: New frontiers in the study of adaptation to ocean acidification
Mar. Pollut. Bull. **185, Part B** , art. 114365
137. **Sossalla, N.A.**, Nivala, J., **Escher, B.I., Schlichting, R., van Afferden, M., Müller, R.A., Reemtsma, T.** (2022):
Impact of various aeration strategies on the removal of micropollutants and biological effects in aerated horizontal flow treatment wetlands
Sci. Total Environ. **828** , art. 154423
Hauptzuordnung T9; Nebenzuordnung T7

138. Spînu, N., Cronin, M.T.D., Lao, J., Bal-Price, A., Campia, I., Enoch, S.J., Madden, J.C., Lagares, L.M., Novič, M., Pamies, D., **Scholz, S.**, Villeneuve, D.L., Worth, A.P. (2022):
Probabilistic modelling of developmental neurotoxicity based on a simplified adverse outcome pathway network
Comput. Toxicol. **21** , art. 100206
139. Ssepuya, F., Odongo, S., Bandowe, B.A.M., Abayi, J.J.M., Olisah, C., Matovu, H., Mubiru, E., Sillanpää, M., Karume, I., Kato, C.D., Shikuku, V.O., **Ssebugere, P.** (2022):
Polycyclic aromatic hydrocarbons in breast milk of nursing mothers: Correlates with household fuel and cooking methods used in Uganda, East Africa
Sci. Total Environ. **842** , art. 156892
140. Starke, R., Fiore-Donno, A.M., White III, R.A., Parente Fernandes, M.L., Martinović, T., Bastida, F., Delgado-Baquerizo, M., **Jehmlich, N.** (2022):
Biomarker metaproteomics for relative taxa abundances across soil organisms
Soil Biol. Biochem. **175** , art. 108861
141. **Stojanovska, V., Arnold, S., Bauer, M., Voss, H., Fest, S., Zenclussen, A.C.** (2022):
Characterization of three-dimensional trophoblast spheroids: an alternative model to study the physiological properties of the placental unit
Cells **11** (8), art. 2884
142. **Stojanovska, V., Voss, H., Fest, S., Zenclussen, A.C.** (2022):
P45: Characterization of 3D trophoblast spheroids as a model of placenta functionality
Am. J. Reprod. Immunol. **87** (S1), 98 - 99
143. Stutz, A., Nishanth, G., **Zenclussen, A.C., Schumacher, A.** (2022):
Partial otubain 1 deficiency compromises fetal well-being in allogeneic pregnancies despite no major changes in the dendritic cell and T cell compartment
BMC Res. Notes **15** , art. 341
144. Taha, H.B., Aalizadeh, R., Alygizakis, N., **Brack, W., Krauss, M., Muschket, M., Reemtsma, T., Schulze, T.,** Sengl, M., Shoemaker, B.A., et al. (2022):
The NORMAN Suspect List Exchange (NORMAN-SLE): facilitating European and worldwide collaboration on suspect screening in high resolution mass spectrometry
Environ. Sci. Eur. **34** , art. 104
145. Taubert, M., Overholt, W.A., Heinze, B.M., Matanfack, G.A., Houhou, R., **Jehmlich, N., von Bergen, M.,** Rösch, P., Popp, J., Küsel, K. (2022):
Bolstering fitness via CO₂ fixation and organic carbon uptake: mixotrophs in modern groundwater
ISME J. **16** (4), 1153 - 1162

146. **Teixidó, E.,** Kießling, T.R., **Klüver, N., Scholz, S.** (2022):
Grouping of chemicals into mode of action classes by automated effect pattern analysis using the zebrafish embryo toxicity test
Arch. Toxicol. **96** (5), 1353 - 1369
147. **Tittel, J., Büttner, O., Friese, K., Lechtenfeld, O.J.,** Schuth, S., **von Tümpling, W., Musolff, A.** (2022):
Iron exports from catchments are constrained by redox status and topography
Glob. Biogeochem. Cycles **36** (1), e2021GB007056
Hauptzuordnung T5; Nebenzuordnung T9
148. Torow, N., Li, R., Hitch, T., Mingels, C., Al Bounny, S., van Best, N., Stange, E.-L., Benabid, A., Rüttger, L., Gadermayr, M., Runge, S., Treichel, N., Merhof, D., Rosshart, S., **Jehlich, N., von Bergen, M.,** Heymann, F., Clavel, T., Tacke, F., Lelouard, H., Costa, I. (2022):
Neonatal Peyer's patch cDC activation as a pacemaker of postnatal immune maturation
Eur. J. Immunol. **52** (S1), 52 - 52
149. **Ulrich, N., Böhme, A.** (2022):
Rapid determination of serum albumin partition coefficients using affinity chromatography
Environ. Adv. **9** , art. 100284
150. **Ulrich, N., Ebert, A.** (2022):
Can deep learning algorithms enhance the prediction of solute descriptors for linear solvation energy relationship approaches?
Fluid Phase Equilib. **555** , art. 113349
151. **Uthoff, C.,** Ruxton, G. (2022):
Local weather conditions affect forager size and visitation rate on bramble flowers (*Rubus fruticosus*) in bumble bees (*Bombus spp*)
J. Insect Behav. **35** (1-4), 17 - 30
152. van Broekhuizen, P., Säämänen, A., Schuurbijs, D., Isigonis, P., Jensen, K.A., **Kühnel, D.,** Le Blansch, K. (2022):
Tyre wear nanoparticles as test for a nano risk governance framework
Front. Environ. Sci. **10** , art. 1045246

153. van Meel, E.R., Mensink-Bout, S.M., den Dekker, H.T., Ahluwalia, T.S., Annesi-Maesano, I., Arshad, S.H., Baiz, N., Barros, H., von Berg, A., Bisgaard, H., Bønnelykke, K., Carlsson, C.J., Casas, M., Chatzi, L., Chevrier, C., Dalmeijer, G., Dezateux, C., Duchon, K., Eggesbø, M., van der Ent, C., Fantini, M., Flexeder, C., Frey, U., Forastiere, F., Gehring, U., Gori, D., Granell, R., Griffiths, L.J., Inskip, H., Jerzynska, J., Karvonen, A.M., Keil, T., Kelleher, C., Kogevinas, M., Koppen, G., Kuehni, C.E., Lambrechts, N., Lau, S., **Lehmann, I.**, Ludvigsson, J., Magnus, M.C., Mélen, E., Mehegan, J., Mommers, M., Nybo Andersen, A.-M., Nystad, W., Pedersen, E.S.L., Pekkanen, J., Peltola, V., Pike, K.C., Pinot de Moira, A., Pizzi, C., Polanska, K., Popovic, M., Porta, D., Roberts, G., Santos, A.C., Schultz, E.S., Standl, M., Sunyer, J., Thijs, C., Toivonen, L., Uphoff, E., Usemann, J., Vafeidi, M., Wright, J., de Jongste, J.C., Jaddoe, V.W.V., Duijts, L. (2022): Early-life respiratory tract infections and the risk of school-age lower lung function and asthma: a meta-analysis of 150 000 European children
Eur. Resp. J. **60** (4), art. 2102395
154. **Švara, V., Michalski, S.G., Krauss, M., Schulze, T., Geuchen, S., Brack, W., Luckenbach, T.** (2022):
Reduced genetic diversity of freshwater amphipods in rivers with increased levels of anthropogenic organic micropollutants
Evol. Appl. **15** (6), 976 - 991
Hauptzuordnung T9; Nebenzuordnung T5
155. Velandia-Huerto, C.A., Yazbeck, A.M., **Schor, J.**, Stadler, P.F. (2022):
Evolution and phylogeny of microRNAs — Protocols, pitfalls, and problems
In: Allmer, J., Yousef, M. (eds.)
miRNomics. MicroRNA biology and computational analysis
Methods in Molecular Biology 2257
Springer Nature, p. 211 - 233
156. Vijayaraj, V., Kipferler, N., Stibor, H., Allen, J., Hölker, F., Laviale, M., Leflaive, J., López Moreira Mazacotte, G.A., **Polst, B.H., Schmitt-Jansen, M.**, Hilt, S., Gross, E.M. (2022):
Evaluating multiple stressor effects on benthic–pelagic freshwater communities in systems of different complexities: Challenges in upscaling
Water **14** (4), art. 581
157. Vijayaraj, V., Laviale, M., Allen, J., Amoussou, N., Hilt, S., Hölker, F., Kipferler, N., Leflaive, J., López Moreira M., G.A., **Polst, B., Schmitt-Jansen, M.**, Stibor, H., Gross, E.M. (2022):
Multiple-stressor exposure of aquatic food webs: nitrate and warming modulate the effect of pesticides
Water Res. **216** , art. 118325

158. Vinggaard, A.M., Lamoree, M., **Escher, B.I.**, Antignac, J.-P., Scholze, M., Jensen, T.K., Herzler, M., Audebert, M., Hamers, T., Kortenkamp, A., Busquet, F., Piumatti, M., Dervilly, G., Valente, M.J., Cariou, R., Moteau, S., Oelgeschläger, M., Renko, K., Schmeisser, S., Maier, D., Laursen, L.L. (2022):
PANORAMIX: Providing risk assessments of complex real-life mixtures for the protection of Europe's citizens and the environment
Toxicol. Lett. **368** (Suppl.), S217 - S217
159. Vitale, C.M., Lommen, A., **Huber, C.**, Wagner, K., Garlito Molina, B., Nijssen, R., Price, E.J., Blokland, M., van Tricht, F., Mol, H.G.J., **Krauss, M.**, Debrauwer, L., Pardo, O., Leon, N., Klanova, J., Antignac, J.-P. (2022):
Harmonized quality assurance/quality control provisions for nontargeted measurement of urinary pesticide biomarkers in the HBM4EU multisite SPECIMEn study
Anal. Chem. **94** (22), 7833 - 7843
160. Völkner, M., Wagner, F., **Steinheuer, L.M.**, Carido, M., Kurth, T., **Yazbeck, A., Schor, J.**, Wieneke, S., Ebner, L.J.A., Del Toro Runzer, C., Taborsky, D., Zoschke, K., Vogt, M., **Canzler, S.**, Hermann, A., Khattak, S., **Hackermüller, J.**, Karl, M.O. (2022):
HBEGF-TNF induce a complex outer retinal pathology with photoreceptor cell extrusion in human organoids
Nat. Commun. **13**, art. 6183
161. **von Gönner, J.**, Neuer, L., Klauer, A-K., **Gröning, J., Liess, M., Bonn, A.** (2022):
Citizen scientists assess the ecological status of small streams in Germany
WasserWirtschaft **112** (S1), 48 - 49
Hauptzuordnung T5; Nebenzuordnung T9
162. **Wagner, S., Klöckner, P., Reemtsma, T.** (2022):
Aging of tire and road wear particles in terrestrial and freshwater environments – A review on processes, testing, analysis and impact
Chemosphere **288, Part 2**, art. 132467
Hauptzuordnung T9; Nebenzuordnung T5
163. Wang, J., Tischer, C., Standl, M., Weidinger, S., von Berg, A., **Herberth, G.**, Yew, Y.W., Heinrich, J., Schmitt, J., Apfelbacher, C. (2022):
Lifetime prevalence and determinants of hand eczema in an adolescent population in Germany: 15-year follow-up of the LISA cohort study
J. Eur. Acad. Dermatol. Venereol. **36** (4), 547 - 556
164. Warrick, P.A., Lostanlen, V., Eickenberg, M., **Homsí, M.N.**, Rodríguez, A.C., Andén, J. (2022):
Arrhythmia classification of 12-lead and reduced-lead electrocardiograms via recurrent networks, scattering, and phase harmonic correlation
Physiol. Meas. **43** (9), art. 094002

165. Wei, R., **Escher, B.I.**, Glaser, C., **König, M.**, **Schlichting, R.**, Schmitt, M., Störiko, A., Viswanathan, M., Zarfl, C. (2022):
Modeling the dynamics of mixture toxicity and effects of organic micropollutants in a small river under unsteady flow conditions
Environ. Sci. Technol. **56** (20), 14397 - 14408
166. Weißenborn, C., von Lenthe, S., Hinz, N., Langwisch, S., Busse, M., **Schumacher, A.**, **Zenclussen, A.C.**, **Fest, S.** (2022):
Depletion of Foxp3+ regulatory T cells but not the absence of CD19+IL-10+ regulatory B cells hinders tumor growth in a para-orthotopic neuroblastoma mouse model
Int. J. Cancer **151** (11), 2021 - 2042
167. **Weisner, O.**, Arle, J., **Liebmann, L.**, Link, M., Schäfer, R.B., Schneeweiss, A., Schreiner, V.C., **Vormeier, P.**, **Liess, M.** (2022):
Three reasons why the Water Framework Directive (WFD) fails to identify pesticide risks
Water Res. **208**, art. 117848
168. **Wernicke, T.**, **Abel, S.**, **Escher, B.I.**, Koschorreck, J., Rüdell, H., **Jahnke, A.** (2022):
Equilibrium sampling of suspended particulate matter as a universal proxy for fish and mussel monitoring
Ecotox. Environ. Safe. **232**, art. 113285
169. **Wernicke, T.**, **Rojo-Nieto, E.**, **Paschke, A.**, **Nogueira Tavares, C.**, **Brauns, M.**, **Jahnke, A.** (2022):
Exploring the partitioning of hydrophobic organic compounds between water, suspended particulate matter and diverse fish species in a German river ecosystem
Environ. Sci. Eur. **34**, art. 66
Hauptzuordnung T5; Nebenzuordnung T9
170. Wilhelmi, P., Giri, V., Henkes, S., Walk, T., Haake, V., **Scholz, S.**, **Busch, W.**, Barenys, M., Zickgraf, F., Landsiedel, R., Funk-Weyer, D., Birk, B., Flick, B. (2022):
A targeted metabolomics approach for unraveling different modes of embryotoxicity in zebrafish
Toxicol. Lett. **368** (Suppl.), S252 - S252
171. **Zhang, N.**, **Schumacher, A.**, **Fink, B.**, **Bauer, M.**, **Zenclussen, A.C.**, **Meyer, N.** (2022):
Insights into early-pregnancy mechanisms: Mast cells and chymase CMA1 shape the phenotype and modulate the functionality of human trophoblast cells, vascular smooth-muscle cells and endothelial cells
Cells **11** (7), art. 1158

172. Zhrebker, A., Rukhovich, G.D., Sarycheva, A., **Lechtenfeld, O.J.**, Nikolaev, E.N. (2022):
Aromaticity index with improved estimation of carboxyl group contribution for biogeochemical studies
Environ. Sci. Technol. **56** (4), 2729 - 2737
173. Zhou, S., **Schulze, T., Brack, W.**, Seiler, T.-B., Hollert, H. (2022):
Spatial and temporal variations in anti-androgenic activity and environmental risk in a small river
Sci. Total Environ. **853** , art. 158622

Veröffentlichungen in anderen Zeitschriften

174. **Canzler, S.**, Fischer, M., Ulbricht, D., Ristic, N., Hildebrand, P.W., Staritzbichler, R. (2022):
ProteinPrompt: a webserver for predicting protein–protein interactions
Bioinform. Adv. **2** (1), vbac059
175. **Glüge, J.**, Ashta, N.M., Herzke, D., Lebreton, L., Scheringer, M. (2022):
Correspondence regarding the Perspective “Addressing the importance of microplastic particles as vectors for long-range transport of chemical contaminants: perspective in relation to prioritizing research and regulatory actions”
Microplastics and Nanoplastics **2**, art. 4
176. **Henneberger, L., Huchthausen, J., König, M., Menge, A., Wojtysiak, N., Escher, B.I.** (2022):
Experimental exposure assessment of designed chemical mixtures in cell-based *in vitro* bioassays
Front. Environ.Chem. **3**, art. 1018162
177. Kocatürk, E., Podder, I., **Zenclussen, A.C.**, Kasperska Zajac, A., Elieh-Ali-Komi, D., Church, M.K., Maurer, M. (2022):
Urticaria in pregnancy and lactation
Front. Allergy **3**, art. 892673
178. Menanteau-Ledouble, S., Skov, J., Lukassen, M.B., **Rolle-Kampczyk, U., Haange, S.-B., Dalsgaard, I., von Bergen, M., Nielsen, J.L.** (2022):
Modulation of gut microbiota, blood metabolites, and disease resistance by dietary β -glucan in rainbow trout (*Oncorhynchus mykiss*)
Animal Microbiome **4**, art. 358
179. Neuwald, I.J., Hübner, D., Wiegand, L., Valkov, V., Borchers, U., Nödler, K., Scheurer, M., Hale, S.E., Arp, H.P.H., **Zahn, D.** (2022):
Ultra-short chain PFAS in the sources of German drinking water: prevalent, overlooked, difficult to remove, and unregulated
Vom Wasser **120** (4), 97 - 100
180. Thessen, A.E., Marvel, S., Achenbach, J.C., Fischer, S., Haendel, M.A., Hayward, K., **Klüver, N.**, Könemann, S., Legradi, J., Lein, P., Leong, C., Mylroie, J.E., Padilla, S., Perone, D., Planchart, A., Miñana Prieto, R., Muriana, A., Quevedo, C., Reif, D., Ryan, K., Stinckens, E., Truong, L., Vergauwen, L., Vom Berg, C., Wilbanks, M., Yaghoobi, B., Hamm, J. (2022):
Implementation of zebrafish ontologies for toxicology screening
Front. Toxicol. **4**, art. 817999

Buchkapitel

181. Padilla, S., Hill, B.N., Legradi, J., **Klüver, N.** (2022):
Using zebrafish to assess developmental neurotoxicity
In: Gupta, R.C. (ed.)
Reproductive and developmental toxicology. Third edition
Academic Press / Elsevier, London, p. 239 - 251
182. **Schmitt-Jansen, M., Lips, S., Schäfer, H., Rummel, C.** (2022):
Microplastic: A new habitat for biofilm communities
In: Rocha-Santos, T., Costa, M.F., Mouneyrac, C. (eds.)
Handbook of microplastics in the environment
Springer, Cham, p. 1049 - 1068

Berichte

183. Koschorreck, J., Rüter, M., Badry, A., Bandow, N., Fettig, I., Körner, A., Künitzer, A., Nagorka, R., Wellnitz, J., Weber, T., Göckener, B., Knopf, B., Dierkes, G., Boulard, L., Jewell, K., Ternes, T., Halbach, M., Scholz-Böttcher, B., Wesch, C., Klein, R., Tarricone, K., Teubner, D., Paulus, M., **Schacht, V., Wernicke, T., Jahnke, A.**, Strehse, J., Bünning, T., Maser, E. (2022):
Umweltprobenbank des Bundes : Bericht für das Jahr 2020
Texte Umweltbundesamt 1/2022
Umweltbundesamt, Dessau-Roßlau, 65 S.
184. **Liess, M., Liebmann, L., Lück, M., Vormeier, P., Weisner, O., Foit, K., Knillmann, S., Schäfer, R.B., Schulze, T., Krauss, M., Brack, W., Reemtsma, T., Halbach, K., Link, M., Schreiner, V.C., Schneeweiss, A., Möder, M., Weitere, M., Kaske, O., von Tümping, W., Gunold, R., Ulrich, N., Paschke, A., Schüürmann, G., Schmitt-Jansen, M., Küster, E., Borchardt, D.** (2022):
Umsetzung des Nationalen Aktionsplans zur nachhaltigen Anwendung von Pflanzenschutzmitteln (NAP) – Pilotstudie zur Ermittlung der Belastung von Kleingewässern in der Agrarlandschaft mit Pflanzenschutzmittel-Rückständen.
Abschlussbericht, Forschungskennzahl 3717 63 403 0
Texte Umweltbundesamt 07/2022
Umweltbundesamt, Dessau-Roßlau, 319 S.
Hauptzuordnung T9; Nebenzuordnung T5
185. Lorenz, S., **Foit, K., Dewenter, B., Liess, M.** (2022):
Ist der SPEAR-Index zur Abschätzung der Pflanzenschutzmittelbelastung übertragbar auf Standgewässer der Agrarlandschaft? Anzeige von Pflanzenschutzmittel-Belastungen in kleinen Standgewässern. Is the SPEAR index for estimating the pesticide load transferable to standing waters of the agricultural landscape?
Texte Umweltbundesamt 86/2022
Umweltbundesamt, Dessau-Roßlau, 40 S.

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Herausgeber

Helmholtz-Zentrum für Umweltforschung GmbH - UFZ

Permoserstraße 15
04318 Leipzig
Telefon 0341-235-0

Bearbeitung

Erika Schnauková

Michael Garbe

Heike Reichelt