



# Veröffentlichungen

des Helmholtz-Zentrums für Umweltforschung – UFZ

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Programm-Topic 9  
„Healthy Planet – Towards a Non-Toxic Environment“

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## **Vorbemerkung**

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahr 2021 erschienenen Publikationen des Programm-Topics 9 „Healthy Planet – Towards a Non-Toxic Environment“ 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 31.01.2022.

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. Aalizadeh, R., Alygizakis, N.A., Schymanski, E.L., **Krauss, M.**, **Schulze, T.**, Ibáñez, M., McEachran, A.D., Chao, A., Williams, A.J., Gago-Ferrero, P., Covaci, A., Moschet, C., Young, T.M., Hollender, J., Slobodnik, J., Thomaidis, N.S. (2021):  
Development and application of liquid chromatographic retention time indices in HRMS-based suspect and nontarget screening  
*Anal. Chem.* **93** (33), 11601 - 11611
2. Allen, J., Gross, E.M., Courcoul, C., Bouletreau, S., Compin, A., Elger, A., Ferriol, J., Hilt, S., Jassey, V.E.J., Laviale, M., **Polst, B.H.**, **Schmitt-Jansen, M.**, Stibor, H., Vijayaraj, V., Leflaive, J. (2021):  
Disentangling the direct and indirect effects of agricultural runoff on freshwater ecosystems subject to global warming: A microcosm study  
*Water Res.* **190** , art. 116713
3. **Allendorf, F.**, **Goss, K.-U.**, **Ulrich, N.** (2021):  
Estimating the equilibrium distribution of perfluoroalkyl acids (PFAAs) and four of their alternatives in mammals  
*Environ. Toxicol. Chem.* **40** (3), 910 - 920
4. Alric, B., Dézerald, O., Meyer, A., Billoir, E., Coulaud, R., **Larras, F.**, Mondy, C.P., Usseglio-Polatera, P. (2021):  
How diatom-, invertebrate- and fish-based diagnostic tools can support the ecological assessment of rivers in a multi-pressure context: temporal trends over the past two decades in France  
*Sci. Total Environ.* **762** , art. 143915
5. Anders, J., **Petruschke, H.**, **Jehmlich, N.**, **Haange, S.-B.**, **von Bergen, M.**, Stadler, P.F. (2021):  
A workflow to identify novel proteins based on the direct mapping of peptide-spectrum-matches to genomic locations  
*BMC Bioinformatics* **22** , art. 277
6. Antoniadis, V., Shaheen, S.M., **Stärk, H.-J.**, **Wennrich, R.**, Levizou, E., **Merbach, I.**, Rinklebe, J. (2021):  
Phytoremediation potential of twelve wild plant species for toxic elements in a contaminated soil  
*Environ. Int.* **146** , art. 106233  
Hauptzuordnung T9; Nebenzuordnung T5
7. **Arinaitwe, K.**, **Keltsch, N.**, Taabu-Munyaho, A., **Reemtsma, T.**, **Berger, U.** (2021):  
Perfluoroalkyl substances (PFASs) in the Ugandan waters of Lake Victoria: Spatial distribution, catchment release and public exposure risk via municipal water consumption  
*Sci. Total Environ.* **783** , art. 146970

8. Arp, H.P.H., **Kühnel, D.**, Rummel, C., MacLeod, M., Potthoff, A., Reichelt, S., **Rojo-Nieto, E.**, Schmitt-Jansen, M., Sonnenberg, J., Toorman, E., **Jahnke, A.** (2021):  
Weathering plastics as a planetary boundary threat: Exposure, fate, and hazards  
*Environ. Sci. Technol.* **55** (11), 7246 - 7255
9. Bastida, F., **Jehmlich, N.**, Starke, R., Benndorf, D., López-Mondéjar, R., Plaza, C., Freixino, Z., Ramírez-Ortuño, C., Ruiz-Navarro, A., Díaz-López, M., Vera, A., Moreno, J.L., Eldridge, D.J., García, C., Delgado-Baquerizo, M. (2021):  
Structure and function of bacterial metaproteomes across biomes  
*Soil Biol. Biochem.* **160** , art. 108331
10. **Bauer, M.** (2021):  
The role of GPR15 function in blood and vasculature  
*Int. J. Mol. Sci.* **22** (19), art. 10824
11. **Baumer, A.**, **Jäsch, S.**, **Ulrich, N.**, Bechmann, I., Landmann, J., **Escher, B.I.** (2021):  
Kinetics of equilibrium passive sampling of organic chemicals with polymers in diverse mammalian tissues  
*Environ. Sci. Technol.* **55** (13), 9097 - 9108
12. **Baumer, A.**, **Jäsch, S.**, **Ulrich, N.**, Bechmann, I., Landmann, J., Stöver, A., **Escher, B.I.** (2021):  
Chemical mixtures in human post-mortem tissues assessed by a combination of chemical analysis and *in vitro* bioassays after extraction with silicone  
*Environ. Int.* **157** , art. 106867
13. Bedulina, D., Drozdova, P., Gurkov, A., **von Bergen, M.**, Stadler, P.F., **Luckenbach, T.**, Timofeyev, M., **Kalkhof, S.** (2021):  
Proteomics reveals sex-specific heat shock response of Baikal amphipod *Eulimnogammarus cyaneus*  
*Sci. Total Environ.* **763** , art. 143008
14. **Bieczynski, F.**, **Burkhardt-Medicke, K.**, Luquet, C.M., **Scholz, S.**, **Luckenbach, T.** (2021):  
Chemical effects on dye efflux activity in live zebrafish embryos and on zebrafish Abcb4 ATPase activity  
*FEBS Lett.* **595** (6), 828 - 843
15. **Böhme, A.**, **Moldrickx, J.**, **Schüürmann, G.** (2021):  
Amino reactivity of glutardialdehyde and monoaldehydes - chemoassay profile vs skin sensitization potency  
*Chem. Res. Toxicol.* **34** (11), 2353 - 2365

16. Breitner, S., Su, C., **Franck, U.**, Wiedensohler, A., Cyrys, J., Pan, X., Wichmann, H.-E., Schneider, A., Peters, A. (2021):  
The association between particulate air pollution and respiratory mortality in Beijing before, during, and after the 2008 Olympic and Paralympic Games  
*Front. Environ. Sci.* **9**, art. 624180
17. **Budhraja, R., Karande, S., Ding, C., Ullrich, M.K., Wagner, S., Reemtsma, T., Adrian, L.** (2021):  
Characterization of membrane-bound metalloproteins in the anaerobic ammonium-oxidizing bacterium “*Candidatus Kuenenia stuttgartiensis*” strain CSTR1  
*Talanta* **223** (Part 2), art. 121711  
Hauptzuordnung T9; Nebenzuordnung T7
18. Bundschuh, M., Zubrod, J.P., **Wernicke, T.**, Konschak, M., Werner, L., Brühl, C.A., Baudy, P., Schulz, R. (2021):  
Bottom-up effects of fungicides on tadpoles of the European common frog (*Rana temporaria*)  
*Ecol. Evol.* **11** (9), 4353 - 4365
19. Busse, M., Plenagl, S., Campe, N.K.J., Müller, A.J., Tedford, K., **Schumacher, A., Zenclussen, A.C.** (2021):  
Maternal B cell-intrinsic MyD88 signaling mediates LPS-driven intrauterine fetal death  
*Cells* **10** (10), art. 2693
20. Busse, M., Redlich, A., Hartig, R., Costa, S.-D., Rathert, H., **Fest, S., Zenclussen, A.C.** (2021):  
Imbalance between inflammatory and regulatory cord blood B cells following pre-term birth  
*J. Reprod. Immunol.* **145** , art. 103319
21. Caballero-Casero, N., Belova, L., Vervliet, P., Antignac, J.-P., Castaño, A., Debrauwer, L., Esteban López, M., **Huber, C., Klanova, J., Krauss, M., Lommen, A., Mol, H.G.J., Oberacher, H., Pardo, O., Price, E.J., Reinstadler, V., Vitale, C.M., van Nuijs, A.L.N., Covaci, A.** (2021):  
Towards harmonised criteria in quality assurance and quality control of suspect and non-target LC-HRMS analytical workflows for screening of emerging contaminants in human biomonitoring  
*Trac-Trends Anal. Chem.* **136** , art. 116201

22. **Cárdenas Espinosa, M.J., Schmidgall, T., Wagner, G., Kappelmeyer, U., Schreiber, S., Heipieper, H.J., Eberlein, C.** (2021):  
An optimized method for RNA extraction from the polyurethane oligomer degrading strain *Pseudomonas capeferrum* TDA1 growing on aromatic substrates such as phenol and 2,4-diaminotoluene  
*PLOS One* **16** (11), e0260002  
Hauptzuordnung T7; Nebenzuordnung T9
23. Carere, M., Antoccia, A., Buschini, A., Frenzilli, G., Marcon, F., Andreoli, C., Gorbi, G., Suppa, A., Montalbano, S., Prota, V., De Battistis, F., Guidi, P., Bernardeschi, M., Palumbo, M., Scarcelli, V., Colasanti, M., D'Ezio, V., Persichini, T., Scalici, M., Sgura, A., Spani, F., Udroiu, I., Valenzuela, M., Lacchetti, I., di Domenico, K., Cristiano, W., Marra, V., Ingelido, A.M., Iacovella, N., De Felip, E., **Massei, R.**, Mancini, L. (2021):  
An integrated approach for chemical water quality assessment of an urban river stretch through Effect-Based Methods and emerging pollutants analysis with a focus on genotoxicity  
*J. Environ. Manage.* **300**, art. 113549
24. Chen, J., Haase, N., **Haange, S.-B.**, Sucher, R., Münzker, J., Jäger, E., Schischke, K., Seyfried, F., **von Bergen, M.**, Hankir, M.K., Krügel, U., Fenske, W.K. (2021):  
Roux-en-Y gastric bypass contributes to weight loss-independent improvement in hypothalamic inflammation and leptin sensitivity through gut-microglia-neuron-crosstalk  
*Mol. Metab.* **48**, art. 101214
25. **da Silva, M.P.**, Blaurock, K., Beudert, B., **Fleckenstein, J.H.**, Hopp, L., Peiffer, S., **Reemtsma, T.**, **Lechtenfeld, O.J.** (2021):  
Delineating source contributions to stream dissolved organic matter composition under baseflow conditions in forested headwater catchments  
*J. Geophys. Res.-Biogeosci.* **126** (8), e2021JG006425  
Hauptzuordnung T9; Nebenzuordnung T5
26. **Ebert, A., Goss, K.-U.** (2021):  
Model for protonophoric uncoupling: explaining discrepancies between BLM and mitochondria  
*Eur. Biophys. J. Biophys. Lett.* **50** (Suppl. 1), 126 - 126
27. **Escher, B.**, Neale, P. (2021):  
Effect-based trigger values for mixtures of chemicals in surface water detected with *in vitro* bioassays  
*Environ. Toxicol. Chem.* **40** (2), 487 - 499

28. Fazia, S., Amalfitano, S., Venturi, S., Pacini, N., Vazquez, S., Olaka, L.A., Tassi, F., Crognale, S., **Herzsprung, P.**, **Lechtenfeld, O.J.**, Cabassi, J., Capecchiacci, F., Rossetti, S., Yakimov, M.M., Vaselli, O., Harper, D.M., Butturini, A. (2021): High concentrations of dissolved biogenic methane associated with cyanobacterial blooms in East African lake surface water  
*Commun. Biol.* **4**, art. 845  
Hauptzuordnung T5; Nebenzuordnung T9
29. Ford, A.T., Ågerstrand, M., Brooks, B.W., Allen, J., Bertram, M.G., Brodin, T., Dang, Z., Duquesne, S., Sahm, R., Hoffmann, F., Hollert, H., Jacob, S., **Klüver, N.**, Lazorchak, J.M., Ledesma, M., Melvin, S.D., Mohr, S., Padilla, S., Pyle, G.G., Scholz, S., Saaristo, M., Smit, E., Steevens, J.A., van den Berg, S., Kloas, W., Wong, B.B.M., Ziegler, M., Maack, G. (2021): The role of behavioral ecotoxicology in environmental protection  
*Environ. Sci. Technol.* **55** (9), 5620 - 5628
30. Frissen, M., Liao, L., Schneider, K.M., Djedjaj, S., Haybaeck, J., Wree, A., **Rolle-Kampczyk, U.**, **von Bergen, M.**, Latz, E., Boor, P., Trautwein, C. (2021): Bidirectional role of NLRP3 during acute and chronic cholestatic liver injury  
*Hepatology* **73** (5), 1836 - 1854
31. 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<sub>pesticides</sub> bioindicator for cost-effective pesticide monitoring in East African streams  
*Environ. Sci. Eur.* **33**, art. 58  
Hauptzuordnung T9; Nebenzuordnung T5
32. Genath, A., **Petruschke, H.**, **von Bergen, M.**, Einspanier, R. (2021): Influence of formic acid treatment on the proteome of the ectoparasite *Varroa destructor*  
*PLOS One* **16** (10), e0258845
33. **Giannopoulos, K.**, **Benettoni, P.**, **Holbrook, T.R.**, **Reemtsma, T.**, **Wagner, S.**, **Lechtenfeld, O.J.** (2021): Direct analysis of fulvic acids adsorbed onto capped gold nanoparticles by laser desorption ionization Fourier-transform ion cyclotron resonance mass spectrometry  
*Environ. Sci.-Nano* **8** (8), 2336 - 2346  
Hauptzuordnung T9; Nebenzuordnung T7

34. Gómez, L., Niegowska, M., Navarro, A., Amendola, L., Arukwe, A., Ait-Aissa, S., Balzamo, S., Barreca, S., Belkin, S., Bittner, M., Blaha, L., Buchinger, S., Busetto, M., Carere, M., Colzani, L., Dellavedova, P., Denslow, N., **Escher, B.I.**, Hogstrand, C., Khan, E.A., **König, M.**, Kroll, K.J., Lacchetti, I., Maillot-Marechal, E., Moscovici, L., Potalivo, M., Sanseverino, I., Santos, R., Schifferli, A., **Schlichting, R.**, Sforzini, S., Simon, E., Shpigel, E., Sturzenbaum, S., Vermeirssen, E., Viarengo, A., Werner, I., Lettieri, T. (2021): Estrogenicity of chemical mixtures revealed by a panel of bioassays *Sci. Total Environ.* **785**, art. 147284
35. González-Fernández, D., Cózar, A., Hanke, G., Viejo, J., Morales-Caselles, C., Bakiu, R., Barceló, D., Bessa, F., Brugé, A., Cabrera, M., Castro-Jiménez, C., Constant, M., Crosti, R., Galletti, Y., Kideys, A.E., Machitadze, N., de Brito, J.P., Pogojeva, M., Ratola, N., Rigueira, J., **Rojo-Nieto, E.**, Savenko, O., Schöneich-Argent, R.I., Siedlewicz, G., Suaria, G., Tourgeli, M. (2021): Floating macrolitter leaked from Europe into the ocean *Nat. Sustain.* **4** (6), 474 - 483
36. **Goss, K.-U.** (2021):  
Mantrailing as evidence in court?  
*Forensic Sci. Int. Rep.* **3**, art. 100204
37. **Goss, K.-U.**, Schoon, A. (2021):  
Concerns regarding “Individual human scent as a forensic identifier using mantrailing”,  
Forensic Science International Volume 282, January 2018, Pages 111–121  
*Forensic Sci. Int.* **318**, art. 110606
38. Greiner-Haas, F., **von Bergen, M.**, Sawers, R.G., Lechner, U., **Türkowsky, D.** (2021): Changes of the proteome and acetylome during transition into the stationary phase in the organohalide-respiring *Dehalococcoides mccartyi* strain CBDB1 *Microorganisms* **9** (2), art. 365
39. **Grodtke, M., Paschke, A., Harzdorf, J., Krauss, M., Schüürmann, G.** (2021): Calibration and field application of the Atlantic HLB Disk containing Chemcatcher® passive sampler – Quantitative monitoring of herbicides, other pesticides and transformation products in German streams *J. Hazard. Mater.* **410**, art. 124538
40. **Großkopf, H.**, Vogel, S., Müller, C.D., Köhling, S., Dürig, J.-N., Möller, S., Schnabelrauch, M., Rademann, J., Hempel, U., **von Bergen, M., Schubert, K.** (2021): Identification of intracellular glycosaminoglycan-interacting proteins by affinity purification mass spectrometry *Biol. Chem.* **402** (11), 1427 - 1440

41. **Großkopf, H., Walter, K., Karkossa, I., von Bergen, M., Schubert, K.** (2021): Non-genomic AhR-signaling modulates the immune response in endotoxin-activated macrophages after activation by the environmental stressor BaP  
*Front. Immunol.* **12**, art. 620270
42. Günthardt, B.F., Hollender, J., Scheringer, M., Hungerbühler, K., **Nanusha, M.Y., Brack, W.**, Bucheli, T.D. (2021): Aquatic occurrence of phytotoxins in small streams triggered by biogeography, vegetation growth stage, and precipitation  
*Sci. Total Environ.* **798**, art. 149128
43. **Halbach, K., Holbrook, T., Reemtsma, T., Wagner, S.** (2021): Effective processing and evaluation of chemical imaging data with respect to morphological features of the zebrafish embryo  
*Anal. Bioanal. Chem.* **413** (6), 1675 - 1687
44. **Halbach, K., Möder, M., Schrader, S., Liebmann, L., Schäfer, R.B., Schneeweiss, A., Schreiner, V.C., Vormeier, P., Weisner, O., Liess, M., Reemtsma, T.** (2021): Small streams – large concentrations? Pesticide monitoring in small agricultural streams in Germany during dry weather and rainfall  
*Water Res.* **203**, art. 117535
45. **Han, L., Kaesler, J., Peng, C., Reemtsma, T., Lechtenfeld, O.J.** (2021): Online counter gradient LC-FT-ICR-MS enables detection of highly polar natural organic matter fractions  
*Anal. Chem.* **93** (3), 1740 - 1748
46. Harris, C.P., Fuertes, E., Koletzko, S., von Berg, A., Berdel, D., Schikowski, T., **Herberth, G.**, Bauer, C.-P., Schulz, H., Jarvis, D., Standl, M. (2021):  
*Thorax* **76** (Suppl. 1), A51
47. Haß, U., **Schütte, O.**, Franz, K., Norman, K. (2021): Dietary Inflammatory Index (DII) – Nützlicher Wegweiser in der praktischen Beratung oder rein theoretisches Modell in der Ernährungsforschung? Dietary Inflammatory Index (DII) – useful guide in practical advice or a purely theoretical model in nutritional research?  
*Aktuelle Ernährungsmedizin* **46** (3), 174 - 185
48. **Henneberger, L., Huchthausen, J., Wojtysiak, N., Escher, B.I.** (2021): Quantitative *in vitro*-to-*in vivo* extrapolation: Nominal versus freely dissolved concentration  
*Chem. Res. Toxicol.* **34** (4), 1175 - 1182

49. Hensgens, G., **Lechtenfeld, O.J.**, Guillemette, F., Laudon, H., Berggren, M. (2021): Impacts of litter decay on organic leachate composition and reactivity  
*Biogeochemistry* **154**, 99 - 117
50. Hering, J.G., Croce, R., **Escher, B.I.**, Magurran, A.E., Noheda, B. (2021): News stories must account for gender bias  
*Science* **374** (6574), 1455 - 1456
51. **Holbrook, T.R., Gallot-Duval, D., Reemtsma, T., Wagner, S.** (2021): An investigation into LA-spICP-ToF-MS uses for *in situ* measurement of environmental multi-elemental nanoparticles  
*J. Anal. At. Spectrom.* **36** (10), 2107 - 2115
52. Holder, B., Aplin, J.D., Gomez-Lopez, N., Heazell, A.E.P., James, J.L., Jones, C.J.P., Jones, H., Lewis, R.M., Mor, G., Roberts, C.T., Robertson, S.A., **Zenclussen, A.C.** (2021): ‘Fetal side’ of the placenta: anatomical mis-annotation of carbon particle ‘transfer’ across the human placenta  
*Nat. Commun.* **12**, art. 7049
53. Höper, T., Siewert, K., Dumit, V.I., **von Bergen, M., Schubert, K.**, Haase, A. (2021): The contact allergen NiSO<sub>4</sub> triggers a distinct molecular response in primary human dendritic cells compared to bacterial LPS  
*Front. Immunol.* **12**, art. 644700
54. **Huber, C., Müller, E., Schulze, T., Brack, W., Krauss, M.** (2021): Improving the screening analysis of pesticide metabolites in human biomonitoring by combining high-throughput *in vitro* incubation and automated LC–HRMS data processing  
*Anal. Chem.* **93** (26), 9149 - 9157
55. **Huhn, S., Escher, B.I., Krauss, M., Scholz, S., Hackermüller, J., Altenburger, R.** (2021): Unravelling the chemical exposome in cohort studies: routes explored and steps to become comprehensive  
*Environ. Sci. Eur.* **33**, art. 17
56. Hyytiäinen, H., Kirjavainen, P.V., Täubel, M., Tuoresmäki, P., Casas, L., Heinrich, J., **Herberth, G.**, Strandl, M., Renz, H., Piippo-Savolainen, E., Hyvärinen, A., Pekkanen, J., Karvonen, A.M. (2021): Microbial diversity in homes and the risk of allergic rhinitis and inhalant atopy in two European birth cohorts  
*Environ. Res.* **196**, art. 110835

57. Jakob, L., Vereshchagina, K.P., Tillmann, A., Rivarola-Duarte, L., Axenov-Gribanov, D.V., Bedulina, D.S., Gurkov, A.N., Drozdova, P., Timofeyev, M.A., Stadler, P.F., **Luckenbach, T.**, Pörtner, H.-O., Sartoris, F.J., Lucassen, M. (2021): Thermal reaction norms of key metabolic enzymes reflect divergent physiological and behavioral adaptations of closely related amphipod species  
*Sci. Rep.* **11**, art. 4562
58. Jemec Kokalj, A., Hartmann, N.B., Drobne, D., Potthoff, A., **Kühnel, D.** (2021): Quality of nanoplastics and microplastics ecotoxicity studies: Refining quality criteria for nanomaterial studies  
*J. Hazard. Mater.* **415**, art. 125751
59. Jeschke, L., **Santamaria, C.G.**, Meyer, N., Zenclussen, A.C., Bartley, J., **Schumacher, A.** (2021): Early-pregnancy dydrogesterone supplementation mimicking luteal-phase support in ART patients did not provoke major reproductive disorders in pregnant mice and their progeny  
*Int. J. Mol. Sci.* **22** (10), art. 5403
60. **Jing, Y.**, Krauss, M., Zschieschang, S., Miltner, A., Butkovskyi, A., Eggen, T., **Kästner, M.**, Nowak, K.M. (2021): Superabsorbent polymer as a supplement substrate of constructed wetland to retain pesticides from agricultural runoff  
*Water Res.* **207**, art. 117776  
Hauptzuordnung T7; Nebenzuordnung T9
61. **Junge, K.M.**, Buchenauer, L., Elter, E., Butter, K., Kohajda, T., Herberth, G., Röder, S., Borte, M., Kiess, W., **von Bergen, M.**, Simon, J.C., Rolle-Kampczyk, U.E., Lehmann, I., Gminski, R., Ohlmeyer, M., **Polte, T.** (2021): Wood emissions and asthma development: Results from an experimental mouse model and a prospective cohort study  
*Environ. Int.* **151**, art. 106449
62. **Karkossa, I.**, Bannuscher, A., Hellack, B., Wohlleben, W., Laloy, J., Stan, M.S., Dinischiotu, A., Wiemann, M., Luch, A., Haase, A., **von Bergen, M.**, Schubert, K. (2021): Nanomaterials induce different levels of oxidative stress, depending on the used model system: Comparison of *in vitro* and *in vivo* effects  
*Sci. Total Environ.* **801**, art. 149538

63. **Karkossa, I.**, Bannuscher, A., Hellack, B., Wohlleben, W., Laloy, J., Stan, M.S., Dinischiotu, A., Wiemann, M., Luch, A., Haase, A., **von Bergen, M.**, **Schubert, K.** (2021): Omics reveal different oxidative stress levels induced by nanomaterials *in vitro* and *in vivo*  
*Toxicol. Lett.* **350** (Suppl.), S125
64. Karpov, M., **Seiwert, B.**, Mordehay, V., **Reemtsma, T.**, Polubesova, T., Chefetz, B. (2021): Abiotic transformation of lamotrigine by redox-active mineral and phenolic compounds  
*Environ. Sci. Technol.* **55** (3), 1535 - 1544
65. **Kasmanas, J.C.**, Bartholomäus, A., **Borim Corrêa, F.**, **Tal, T.**, **Jehmlich, N.**, **Herberth, G.**, **von Bergen, M.**, Stadler, P.F., de Carvalho, A.C.P.L.F., **Nunes da Rocha, U.** (2021): HumanMetagenomeDB: a public repository of curated and standardized metadata for human metagenomes  
*Nucleic Acids Res.* **49** (D1), D743 - D750  
Hauptzuordnung T7; Nebenzuordnung T9
66. **Keller, N.-S.**, Hornbruch, G., Lüders, K., **Werban, U.**, **Vogt, C.**, **Kallies, R.**, Dahmke, A., **Richnow, H.H.** (2021): Monitoring of the effects of a temporally limited heat stress on microbial communities in a shallow aquifer  
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