



Publications

Helmholtz Centre for Environmental Research – UFZ

Topic 9: Healthy Planet – Towards a Non-Toxic Environment

Preface

This list includes all publications of the year 2022 assigned to program topic 9 “Healthy Planet – Towards a Non-Toxic Environment” of the Helmholtz research program "Changing Earth – Sustaining our Future" within the research field Earth and Environment which were authored, co-authored or edited by staff members of the Helmholtz Centre for Environmental Research - UFZ.

If a publication belongs to more than one program topic, both primary and secondary assignments are indicated.

The editorial deadline for this publication list was 20 January 2023.

In contrast to external authors, UFZ staff names are highlighted in **bold type** in all publications.

The concluding index lists all UFZ authors in alphabetical order with the sequential numbers of their publications.

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Publications in ISI/Scopus listed journals/series

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
Main topic T5; Secondary topic T9
6. **Böhme, A., Moldrickx, J., Schüürmann, G.** (2022):
Amino reactivity of Schiff base forming aldehydes - Nonanimal assessment of their skin sensitization potency
Naunyn-Schmiedeberg's 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., Sodré, 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.**, **Jehmlich, 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. Brühl, 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
Main topic T5; Secondary topic 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., Karpouzas, 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. **Ganter, 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
Main topic T5; Secondary topic T9

34. Geesink, P., Taubert, M., **Jehmlich, 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.**, Tili, 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., Kleigrew, 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 *Amoebaphelidium 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., Mārtiņšone, 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.**, Bröls, 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
Main topic T9; Secondary topic 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
Main topic T5; Secondary topics 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., Boczek, 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
Main topic T5; Secondary topic 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
Main topic T7; Secondary topic 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
Main topic T9; Secondary topic T7

65. **Kretschmer, T.**, Turnwald, E.-M., Janoschek, R., Wohlfarth, M., Handwerk, M., Dötsch, J., Hucklenbruch-Rother, E., Appel, S. (2022):
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