

Publikationsliste von Gerrit Schüürmann

Status: März 2025

Gesamtzahl = 328 (ohne wissenschaftliche Berichte und Abstracts):

- 257 Artikel in Zeitschriften mit Fachbegutachtung (S. 1-22)
- 44 Artikel in Büchern und Tagungsbänden (S. 23-28)
- 23 Artikel in Zeitschriften ohne Fachbegutachtung (S. 29-31)
- 4 Bücher und Tagungsbände herausgegeben (S. 32)

A) Artikel in Zeitschriften mit Fachbegutachtung

2024

257. Kühne R, Hilscherova K, Smutna M, Leßmöllmann F, Schüürmann G 2024. In silico bioavailability triggers applied to direct and indirect thyroid hormone disruptors. *Chemosphere* 348: 140611 (10 pp).

256. Römerscheid M, Paschke A, Schüürmann G 2024. Survey of Appearance and temporal concentrations of polar organic pollutants in Saxon waters. *Heliyon* 10: e23378 (15 pp).

2023

255. Balda M, Mackenzie K, Wosidlo S, Uhlig H, Möllmer J, Kopinke F-D, Schüürmann G, Georgi A 2023. Bottom-Up Synthesis of De-Functionalized and Dispersible Carbon Spheres as Colloid Adsorbent. *Int. J. Mol. Sci.* 24: 3821 (21 pp).

254. Colbourne JK, .., Scholz S, .., Schüürmann G, .. Tindall A 2023. The Precision Toxicology Initiative. *Toxicol. Lett.* 383: 33-42.

253. Ebert R-U, Kühne R, Schüürmann G 2023. Henry's Law Constant – A General-Purpose Fragment Model to Predict Log K_{aw} from Molecular Structure. *Environ. Sci. Technol.* 57: 160-167.

252. Ebert R-U, Kühne R, Schüürmann G 2023. Octanol/Air Partition Coefficient – A General-Purpose Fragment Model to Predict Log K_{oa} from Molecular Structure. *Environ. Sci. Technol.* 57: 976-984.

251. Ramhøj L, Axelstad M, Baert Y, Cañas-Portilla AI, Chalmel F, Dahmen L, De La Vieja A, Evrard B, Haigis A-C, Hamers T, Heikamp K, Holbech H, Iglesias-Hernandez P, Knapen D, Marchandise L, Morthorst JE, Nikolov NG, Nissen ACVE, Oelgeschlaeger M, Renko K, Rogiers V, Schüürmann G, Stinckens E, Stub MH, Torres-Ruiz M, Van Duursen M, Vanhaecke T, Vergauwen L, Wedebye EB and Svingen T 2023. New approach methods to improve human health risk assessment of thyroid hormone system disruption – a PARC project. *Front. Toxicol.* 5: 1189303 (10 pp). DOI: 10.3389/ftox.2023.1189303.

250. Römerscheid M, Paschke A, Schneider S, Blaha M, Harzdorf J, Schüürmann G 2023. Calibration of the Chemcatcher passive sampler and derivation of generic sampling rates for a broad application in monitoring of surface waters. *Sci. Total Environ.* 871: 161963 (10 pp).

249. Saleem S, Böhme A, Schüürmann G 2023. Baseline Narcosis for the Glass-Vial 96-h Growth Inhibition of the Nematode *C. elegans* and Its Use for Identifying Electrophilic and Pro-Electrophilic Toxicity. *Environ. Sci. Technol.* 57: 1692-1700.

248. Shamsara J, Schüürmann G 2023. Improvement of binding pose prediction of the MR1 covalent ligands by inclusion of simple pharmacophore constraints and structural waters in the docking process. *3 Biotech* 13: 279 (15 pp).

247. Zhang S, Ouyang W, Xia X, Wen W, Adrian L, Schüürmann G 2023. Mechanistic insight into the Dehalococcoides-mediated reductive dichlorination of polychlorinated biphenyls. *Phys. Chem. Chem. Phys.* 25: 15193 (7 pp).

246. Zhang S, Wen W, Xia X, Ouyang W, Mai B-x, Adrian L, Schüürmann G 2023. Insight into the Mechanism Underlying *Dehalococcoides mccartyi* Strain CBDB1-Mediated B₁₂-Dependent Aromatic Reductive Dehalogenation. *Environ. Sci. Technol.* 57: 10773-10781.

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245. Scholz S, Nichols JW, Escher BI, Ankley GT, Altenburger R, Blackwell B, Brack W, Burkhard L, Collette TW, Doering JA, Ekman D, Fay K, Fischer F, Hackermüller J, Hoffman JC, 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: 30-45.

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244. Zhang S, Adrian L, Schüürmann G 2021. Outer-sphere electron transfer does not underpin B₁₂-dependent olefinic reductive dehalogenation in anaerobes. *Phys. Chem. Chem. Phys.* 23: 27520-27524.

243. Böhme A, Moldrickx J, Schüürmann G 2021. Amino Reactivity of Glutardialdehyde and Monoaldehydes – Chemoassay Profile vs Skin Sensitization Potency. *Chem. Res. Toxicol.* 34: 2353-2365.

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241. 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. Haz. Mat.* 410, 124538 (10 pp).

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240. Arunrungvichian K, Chongruchiroj S, Sarasamkan J, Schüürmann G, Brust P, Vajragupta O 2020. In Silico Finding of Key Interaction Mediated $\alpha 3\beta 4$ and $\alpha 7$ Nicotinic Acetylcholine Receptor Ligand Selectivity of Quinuclidine-Triazole Chemotype. *Int. J. Mol. Sci.* 21: 6189 (18 pp).
239. Chepchirchir BS, Zhou X, Paschke A, Schüürmann G 2020. Polyethersulfone as suitable passive sampler for waterborne hydrophobic organic compounds – Laboratory calibration and field test in the Sosiani river, Kenya. *Sci. Total Environ.* 699: 134056 (8 pp).
238. Holbech H, Matthiessen P, Hansen M, Schüürmann G, Knapen D, Reuver M, Flamant F, Sachs L, Kloas W, Hilscherova K, Leonard M, Arning J, Strauss V, Iguchi T, Baumann L 2020. ERGO: Breaking Down the Wall between Human Health and Environmental Testing of Endocrine Disruptors. *Int. J. Mol. Sci.* 21: 2954 (18 pp).
237. Sadeghzadeh M, Wenzel B, Gündel D, Deuther-Conrad W, Toussaint M, Moldovan R-P, Fischer S, Ludwig F-A, Teodoro R, Jonnalagadda S, Jonnalagadda SK, Schüürmann G, Meredy VR, Drewes LR, Brust P 2020. Development of Novel Analogs of the Monocarboxylate Transporter Ligand FACH and Biological Validation of One Potential Radiotracer for Positron Emission Tomography (PET) Imaging. *Molecules* 25: 2309 (21 pp).
236. Shamsara J, Schüürmann G 2020. A machine learning approach to discriminate MR1 binders: The importance of the phenol and carbonyl fragments. *J. Mol. Struct.* 1217: 128459 (7 pp).
235. Van Gils J, Posthuma L, Cousins IT, Brack W, Altenburger R, Baveco H, Focks A, Greskowiak J, Kühne R, Kutsarova S, Lindim C, Markus A, van de Meent D, Munthe J, Schueder R, Schüürmann G, Slobodnik J, de Zwart D, van Wenzel A 2020. Computational material flow analysis for thousands of chemicals of emerging concern in European waters. *J. Haz. Mat.* 397: 122655 (12 pp).
234. Zhang S, Adrian L, Schüürmann G 2020. Dehalococcoides-Mediated B12-Dependent Reductive Dehalogenation of Aromatics Does Not Proceed through Outer-Sphere Electron Transfer. *Environ. Sci. Technol.* 54: 15751-15758.

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233. Junker Th, Coors A, Schüürmann G 2019. Compartment-Specific Screening Tools for Persistence: Potential Role and Application in the Regulatory Context. *Integr. Environ. Assess. Managem.* 15: 470-481.
232. Lindim C, de Zwart D, Cousins IT, Kutsarova S, Kühne R, Schüürmann G 2019. Exposure and ecotoxicological risk assessment of mixtures of top prescribed pharmaceuticals in Swedish freshwaters. *Chemosphere* 220: 344-352.

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231. Jahreis S, Trump S, Bauer M, Bauer T, Thürmann L, Feltens R, Wang Q, Gu L, Grützmann K, Röder S, Auerbeck M, Weichenhahn D, Plass C, Sack U, Borte M, Schüürmann G, Simon JC, von Bergen, Hackermüller J, Eils R, Lehmann I, Polte T 2018. Maternal phthalate exposure promotes allergic airway inflammation over two generations via epigenetic modifications. *J. Allergy Clin. Immunol.* 141: 741-753.

230. Ma G, Yu H, Wei X, Chen J, Lin H, Schüürmann G 2018. Computational insight into the activation mechanism of carcinogenic N'-nitrosonornicotine (NNN) catalyzed by cytochrome P450. *Environ. Sci. Technol.* 52: 11838-11847.

229. Nendza M, Kühne R, Lombardo A, Stempel S, Schüürmann G 2018. PBT assessment under REACH: Screening for low aquatic bioaccumulation with QSAR classifications based on physicochemical properties to replace BCF in vivo testing on fish. *Sci. Total Environ.* 616-617: 97-196.

228. Zhang S, Adrian L, Schüürmann G 2018. Interaction Mode and Regioselectivity in Vitamin B12-Dependent Dehalogenation of Aryl Halides by *Dehalococcoides mccartyi* Strain CBDB1. *Environ. Sci. Technol.* 52: 1834-1843.

227. Zhang Q, Ji S, Chai L, Yang F, Zhao M, Liu W, Schüürmann G, Ji L 2018. Metabolic mechanism of aryl phosphorus flame retardants by cytochromes P450: A combined experimental and computational study on triphenyl phosphite. *Environ. Sci. Technol.* 52: 14411-14421.

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226. Chepchirchir BS, Paschke A, Schüürmann G 2017. Passive sampling for spatial and temporal monitoring of organic pollutants in surface water of a rural-urban river in Kenya. *Sci. Total Environ.* 601-602: 453-460.

225. Escher BI, Hackermüller J, Polte T, Scholz S, Aigner A, Altenburger R, Böhme A, Bopp SK, Brack W, Busch W, Chadeau-Hyam M, Covaci A, Eisenträger A, Galligan JJ, Garcia-Reyero N, Hartung T, Hein M, Herberth G, Jahnke A, Kleijnans J, Klüver N, Krauss M, Lamoree M, Lehmann I, Luckenbach T, Miller GW, Müller A, Phillips DH, Reemtsma T, Rolle-Kampczyk U, Schüürmann G, Schwikowski B, Tan Y-M, Trump S, Walter-Rohde S, Wambaugh JF 2017. From the exposome to mechanistic understanding of chemical-induced adverse effects. *Environ. Int.* 99: 97-106.

224. Le TDH, Scharmüller A, Kattwinkel M, Kühne R, Schüürmann G, Schäfer RB 2017. Contribution of waste water treatment plants to pesticide toxicity in agriculture catchments. *Ecotoxicol. Environ. Saf.* 145: 135-141.

223. Muz M, Ost O, Kühne R, Schüürmann G, Brack W, Krauss M 2017. Nontargeted detection and identification of (aromatic) amines in environmental samples based on diagnostic derivatization and LC-high resolution mass spectrometry. *Chemosphere* 166: 300-310.

222. Shafique U, Dorn V, Paschke A, Schüürmann G 2017. Adsorption of perfluorocarboxylic acids at the silica surface. *Chem. Commun.* 53: 589-592.

221. Shafique U, Schulze S, Slawik C, Kunz S, Paschke A, Schüürmann G 2017. Gas chromatographic determination of perfluorocarboxylic acids in aqueous samples. A tutorial review. *Anal. Chim. Acta* 949: 8-22.

220. Shafique U, Schulze S, Slawik C, Chepchirchir BS, Böhme A, Paschke A, Schüürmann G 2017. Perfluoroalkyl acids in aqueous samples from Germany and Kenya. *ESPR – Environ. Sci. Pollut. Res.* 24: 11031-11043; Erratum: 11044.

219. Slawik C, Rickmeyer C, Brehm M, Böhme A, Schüürmann G 2017. Glutathione Adduct Patterns of Michael-Acceptor Carbonyls. *Environ. Sci. Technol.* 51: 4018-4026.

218. Winter M, Thürmann L, Zugang G, Schüürmann G, Herberth G, von Bergen M, Harms H, Olek S, Röder S, Eils R, Lehmann I, Trump S 2017. The benzene metabolite 1,4-benzoquinone reduces regulatory T-cell function: A potential mechanism for tobacco smoke-associated atopic dermatitis. *J. Allergy Clin. Immunol.* 140: 603-605.

217. Zhang S, Wondrousch D, Cooper M, Zinder SH, Schüürmann G, Adrian L 2017. Anaerobic Dehalogenation of Chloroanilines by Dehalococcoides mccartyi Strain CBDB1 and Dehalobacter Strain 14DCB1 via Different Pathways as Related to Molecular Electronic Structure. *Environ. Sci. Technol.* 51: 3714-3724.

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216. Böhme A, Laqua A, Schüürmann G 2016. Chemoavailability of organic electrophiles – Impact of hydrophobicity and reactivity on their aquatic excess toxicity. *Chem. Res. Toxicol.* 29: 952-962.

215. Eremina N, Paschke A, Mazlova EA, Schüürmann G 2016. Distribution of polychlorinated biphenyls, phthalic acid esters, polycyclic aromatic hydrocarbons and organochlorine substances in the Moscow River, Russia. *Environ. Pollut.* 210: 409-418.

214. Hirte K, Seiwert B, Schüürmann G, Reemtsma T 2016. New hydrolysis products of the beta-lactam antibiotic amoxicillin, their pH-dependent formation and search in municipal wastewater. *Water Res.* 88: 880-888.

213. Junker T, Coors A, Schüürmann G 2016. Development and application of screening tools for biodegradation in water-sediment systems and soil. *Sci. Total Environ.* 544: 1020-1030.

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211. Sarasamkan J, Scheunemann M, Apaijai N, Palee S, Parichatikanond W, Arunrungvichian K, Fischer S, Chattipakorn S, Deuther-Conrad W, Schüürmann G, Brust P, Vajragupta O 2016. Varying Chirality Across Nicotinic Acetylcholine Receptor Subtypes: Selective Binding of Quinuclidine Triazole Compounds. *ACS Med. Chem. Lett.* 7: 890-895.

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