

Kathrin Fenner

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

11,229
citations

76326

40
h-index

42399

92
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96
all docs

96
docs citations

96
times ranked

11892
citing authors

#	ARTICLE	IF	CITATIONS
1	Scientific concepts and methods for moving persistence assessments into the 21st century. <i>Integrated Environmental Assessment and Management</i> , 2022, 18, 1454-1487.	2.9	24
2	Wastewater microorganisms impact the micropollutant biotransformation potential of natural stream biofilms. <i>Water Research</i> , 2022, 217, 118413.	11.3	17
3	Large-scale assessment of organic contaminant emissions from chemical and pharmaceutical manufacturing into Swiss surface waters. <i>Water Research</i> , 2022, 215, 118221.	11.3	10
4	Toward Characterizing the Genetic Basis of Trace Organic Contaminant Biotransformation in Activated Sludge: The Role of Multicopper Oxidases as a Case Study. <i>Environmental Science & Technology</i> , 2022, 56, 313-324.	10.0	5
5	To be or not to be degraded: in defense of persistence assessment of chemicals. <i>Environmental Sciences: Processes and Impacts</i> , 2022, 24, 1104-1109.	3.5	6
6	Micropollutant biotransformation and bioaccumulation in natural stream biofilms. <i>Water Research</i> , 2021, 193, 116846.	11.3	40
7	Towards more Sustainable Peptide- based Antibiotics: Stable in Human Blood, Enzymatically Hydrolyzed in Wastewater?. <i>Chimia</i> , 2021, 75, 267.	0.6	5
8	Improving our understanding of the environmental persistence of chemicals. <i>Integrated Environmental Assessment and Management</i> , 2021, 17, 1123-1135.	2.9	8
9	Methodological Advances to Study Contaminant Biotransformation: New Prospects for Understanding and Reducing Environmental Persistence?. <i>ACS ES&T Water</i> , 2021, 1, 1541-1554.	4.6	35
10	Biotransformation of Chemicals at the Water-Sediment Interface-Toward a Robust Simulation Study Setup. <i>ACS Environmental Au</i> , 2021, 1, 46-57.	7.0	9
11	Analyzing (Initial) Biotransformation Reactions as an Organizing Principle for Unraveling the Extent of Trace Organic Chemical Biotransformation in Biofiltration Systems. <i>ACS ES&T Water</i> , 2021, 1, 1921-1931.	4.6	8
12	Comment on "Role of Ammonia Oxidation in Organic Micropollutant Transformation during Wastewater Treatment": Overlooked Evidence to the Contrary. <i>Environmental Science & Technology</i> , 2021, 55, 12128-12129.	10.0	8
13	Heterotrophic enzymatic biotransformations of organic micropollutants in activated sludge. <i>Science of the Total Environment</i> , 2021, 780, 146564.	8.0	18
14	Temperature, phytoplankton density and bacteria diversity drive the biotransformation of micropollutants in a lake ecosystem. <i>Water Research</i> , 2021, 202, 117412.	11.3	10
15	The Need for Chemical Simplification As a Logical Consequence of Ever-Increasing Chemical Pollution. <i>Environmental Science & Technology</i> , 2021, 55, 14470-14472.	10.0	27
16	Relating Metatranscriptomic Profiles to the Micropollutant Biotransformation Potential of Complex Microbial Communities. <i>Environmental Science & Technology</i> , 2020, 54, 235-244.	10.0	29
17	Clustering micropollutants based on initial biotransformations for improved prediction of micropollutant removal during conventional activated sludge treatment. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 554-565.	2.4	15
18	Microbial community shifts in streams receiving treated wastewater effluent. <i>Science of the Total Environment</i> , 2020, 709, 135727.	8.0	52

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19	Biotransformation of Chemicals in Waterâ€“Sediment Suspensions: Influencing Factors and Implications for Persistence Assessment. <i>Environmental Science and Technology Letters</i> , 2020, 7, 854-860.	8.7	26
20	Quantification of Active Ingredient Losses from Formulating Pharmaceutical Industries and Contribution to Wastewater Treatment Plant Emissions. <i>Environmental Science & Technology</i> , 2020, 54, 15046-15056.	10.0	10
21	Understanding the Dependence of Micropollutant Biotransformation Rates on Short-Term Temperature Shifts. <i>Environmental Science & Technology</i> , 2020, 54, 12214-12225.	10.0	17
22	Assessing Emissions from Pharmaceutical Manufacturing Based on Temporal High-Resolution Mass Spectrometry Data. <i>Environmental Science & Technology</i> , 2020, 54, 4110-4120.	10.0	27
23	Comparison of Small Molecule Biotransformation Half-Lives between Activated Sludge and Soil: Opportunities for Read-Across?. <i>Environmental Science & Technology</i> , 2020, 54, 3148-3158.	10.0	20
24	Editorial. <i>Chimia</i> , 2020, 74, 105.	0.6	0
25	Microbial residence time is a controlling parameter of the taxonomic composition and functional profile of microbial communities. <i>ISME Journal</i> , 2019, 13, 1589-1601.	9.8	24
26	The Swiss Chemical Society Establishes a New Section on 'Chemistry and the Environment' (SCE). <i>Chimia</i> , 2019, 73, 644-644.	0.6	0
27	Biotransformation of Sulfonamide Antibiotics in Activated Sludge: The Formation of Pterin-Conjugates Leads to Sustained Risk. <i>Environmental Science & Technology</i> , 2018, 52, 6265-6274.	10.0	101
28	Ion Trapping of Amines in Protozoa: A Novel Removal Mechanism for Micropollutants in Activated Sludge. <i>Environmental Science & Technology</i> , 2018, 52, 52-60.	10.0	37
29	Relating Degradation of Pharmaceutical Active Ingredients in a Stream Network to Degradation in Waterâ€“Sediment Simulation Tests. <i>Water Resources Research</i> , 2018, 54, 9207-9223.	4.2	19
30	Trends in Micropollutant Biotransformation along a Solids Retention Time Gradient. <i>Environmental Science & Technology</i> , 2018, 52, 11601-11611.	10.0	22
31	Evaluating the environmental parameters that determine aerobic biodegradation half-lives of pesticides in soil with a multivariable approach. <i>Chemosphere</i> , 2018, 209, 430-438.	8.2	29
32	A computer-based prediction platform for the reaction of ozone with organic compounds in aqueous solution: kinetics and mechanisms. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 465-476.	3.5	35
33	Eawag-Soil in enviPath: a new resource for exploring regulatory pesticide soil biodegradation pathways and half-life data. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 449-464.	3.5	37
34	QSARs and computational chemistry methods in environmental chemical sciences. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 185-187.	3.5	6
35	Relative contribution of ammonia oxidizing bacteria and other members of nitrifying activated sludge communities to micropollutant biotransformation. <i>Water Research</i> , 2017, 109, 217-226.	11.3	124
36	enviPath â€“ The environmental contaminant biotransformation pathway resource. <i>Nucleic Acids Research</i> , 2016, 44, D502-D508.	14.5	126

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37	Bridging across OECD 308 and 309 Data in Search of a Robust Biotransformation Indicator. <i>Environmental Science & Technology</i> , 2016, 50, 6865-6872.	10.0	33
38	Biotransformation of Two Pharmaceuticals by the Ammonia-Oxidizing Archaeon <i>Nitrososphaera gargensis</i> . <i>Environmental Science & Technology</i> , 2016, 50, 4682-4692.	10.0	68
39	A Hybrid Machine Learning and Knowledge Based Approach to Limit Combinatorial Explosion in Biodegradation Prediction. <i>Studies in Computational Intelligence</i> , 2016, , 75-97.	0.9	4
40	Identification of biotransformation products of citalopram formed in activated sludge. <i>Water Research</i> , 2016, 103, 205-214.	11.3	57
41	Simulation Studies to Explore Biodegradation in Water-Sediment Systems: From OECD 308 to OECD 309. <i>Environmental Science & Technology</i> , 2016, 50, 6856-6864.	10.0	44
42	Systematic Exploration of Biotransformation Reactions of Amine-Containing Micropollutants in Activated Sludge. <i>Environmental Science & Technology</i> , 2016, 50, 2908-2920.	10.0	111
43	Rapid Screening for Exposure to "Non-Target" Pharmaceuticals from Wastewater Effluents by Combining HRMS-Based Suspect Screening and Exposure Modeling. <i>Environmental Science & Technology</i> , 2016, 50, 6698-6707.	10.0	125
44	Association of Biodiversity with the Rates of Micropollutant Biotransformations among Full-Scale Wastewater Treatment Plant Communities. <i>Applied and Environmental Microbiology</i> , 2015, 81, 666-675.	3.1	98
45	Development of Prediction Models for the Reactivity of Organic Compounds with Ozone in Aqueous Solution by Quantum Chemical Calculations: The Role of Delocalized and Localized Molecular Orbitals. <i>Environmental Science & Technology</i> , 2015, 49, 9925-9935.	10.0	83
46	A framework for establishing predictive relationships between specific bacterial 16S rRNA sequence abundances and biotransformation rates. <i>Water Research</i> , 2015, 70, 471-484.	11.3	31
47	Can meta-omics help to establish causality between contaminant biotransformations and genes or gene products?. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 272-278.	2.4	26
48	Deriving Persistence Indicators from Regulatory Water-Sediment Studies " Opportunities and Limitations in OECD 308 Data. <i>Environmental Science & Technology</i> , 2015, 49, 5879-5886.	10.0	50
49	The functional and taxonomic richness of wastewater treatment plant microbial communities are associated with each other and with ambient nitrogen and carbon availability. <i>Environmental Microbiology</i> , 2015, 17, 4851-4860.	3.8	59
50	pH-Dependent Biotransformation of Ionizable Organic Micropollutants in Activated Sludge. <i>Environmental Science & Technology</i> , 2014, 48, 13760-13768.	10.0	62
51	Identifying Small Molecules via High Resolution Mass Spectrometry: Communicating Confidence. <i>Environmental Science & Technology</i> , 2014, 48, 2097-2098.	10.0	2,300
52	Evaluating Pesticide Degradation in the Environment: Blind Spots and Emerging Opportunities. <i>Science</i> , 2013, 341, 752-758.	12.6	835
53	Response to comment of Sierra Rayne on "Targeting aquatic microcontaminants for monitoring: exposure categorization and application to the Swiss situation [Gätz et al., <i>Environ Sci Pollut Res</i> (2010) 17:341-354]" <i>Environmental Science and Pollution Research</i> , 2013, 20, 6678-6680.	5.3	0
54	The activity level of a microbial community function can be predicted from its metatranscriptome. <i>ISME Journal</i> , 2012, 6, 902-904.	9.8	70

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55	Micropollutant Biotransformation Kinetics Associate with WWTP Process Parameters and Microbial Community Characteristics. <i>Environmental Science & Technology</i> , 2012, 46, 10579-10588.	10.0	162
56	Pesticide Nonextractable Residue Formation in Soil: Insights from Inverse Modeling of Degradation Time Series. <i>Environmental Science & Technology</i> , 2012, 46, 9830-9837.	10.0	26
57	Assessing Exposure to Transformation Products of Soil-Applied Organic Contaminants in Surface Water: Comparison of Model Predictions and Field Data. <i>Environmental Science & Technology</i> , 2011, 45, 2833-2841.	10.0	29
58	A Framework for Evaluating the Contribution of Transformation Products to Chemical Persistence in the Environment. <i>Environmental Science & Technology</i> , 2011, 45, 111-117.	10.0	30
59	Recent Advances in Environmental Risk Assessment of Transformation Products. <i>Environmental Science & Technology</i> , 2011, 45, 3835-3847.	10.0	355
60	Targeting aquatic microcontaminants for monitoring: exposure categorization and application to the Swiss situation. <i>Environmental Science and Pollution Research</i> , 2010, 17, 341-354.	5.3	62
61	Predicting biodegradation products and pathways: a hybrid knowledge- and machine learning-based approach. <i>Bioinformatics</i> , 2010, 26, 814-821.	4.1	46
62	High-Throughput Identification of Microbial Transformation Products of Organic Micropollutants. <i>Environmental Science & Technology</i> , 2010, 44, 6621-6627.	10.0	250
63	Structure-Based Interpretation of Biotransformation Pathways of Amide-Containing Compounds in Sludge-Seeded Bioreactors. <i>Environmental Science & Technology</i> , 2010, 44, 6628-6635.	10.0	93
64	Fate of β -blocker human pharmaceuticals in surface water: Comparison of measured and simulated concentrations in the Glatt Valley Watershed, Switzerland. <i>Water Research</i> , 2010, 44, 936-948.	11.3	176
65	QSAR-analysis and mixture toxicity as diagnostic tools: Influence of degradation on the toxicity and mode of action of diuron in algae and daphnids. <i>Aquatic Toxicology</i> , 2010, 97, 58-67.	4.0	45
66	Hexadecane/air partitioning coefficients of multifunctional compounds: Experimental data and modeling. <i>Fluid Phase Equilibria</i> , 2010, 299, 207-215.	2.5	28
67	A tiered procedure for assessing the formation of biotransformation products of pharmaceuticals and biocides during activated sludge treatment. <i>Journal of Environmental Monitoring</i> , 2010, 12, 2100.	2.1	119
68	Simulation of Pharmaceutical and Personal Care Product Transport to Tile Drains after Biosolids Application. <i>Journal of Environmental Quality</i> , 2009, 38, 1274-1285.	2.0	29
69	Physiological Modes of Action of Fluoxetine and its Human Metabolites in Algae. <i>Environmental Science & Technology</i> , 2009, 43, 6830-6837.	10.0	61
70	Environmental Persistence of Organic Pollutants: Guidance for Development and Review of POP Risk Profiles. <i>Integrated Environmental Assessment and Management</i> , 2009, 5, 539-556.	2.9	103
71	pH-Dependent Sorption of Acidic Organic Chemicals to Soil Organic Matter. <i>Environmental Science & Technology</i> , 2009, 43, 9189-9195.	10.0	95
72	Identification of Transformation Products of Organic Contaminants in Natural Waters by Computer-Aided Prediction and High-Resolution Mass Spectrometry. <i>Environmental Science & Technology</i> , 2009, 43, 7039-7046.	10.0	275

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73	Experimental Determination of LSER Parameters for a Set of 76 Diverse Pesticides and Pharmaceuticals. <i>Environmental Science & Technology</i> , 2008, 42, 2034-2040.	10.0	78
74	Input Dynamics and Fate in Surface Water of the Herbicide Metolachlor and of its Highly Mobile Transformation Product Metolachlor ESA. <i>Environmental Science & Technology</i> , 2008, 42, 5507-5513.	10.0	56
75	Data-driven extraction of relative reasoning rules to limit combinatorial explosion in biodegradation pathway prediction. <i>Bioinformatics</i> , 2008, 24, 2079-2085.	4.1	55
76	Simulating Sulfadimidine Transport in Surface Runoff and Soil at the Microplot and Field Scale. <i>Journal of Environmental Quality</i> , 2008, 37, 788-797.	2.0	15
77	Relating Atrazine Degradation Rate in Soil to Environmental Conditions: Implications for Global Fate Modeling. <i>Environmental Science & Technology</i> , 2007, 41, 2840-2846.	10.0	28
78	Selecting Scenarios to Assess Exposure of Surface Waters to Veterinary Medicines in Europe. <i>Environmental Science & Technology</i> , 2007, 41, 4669-4676.	10.0	21
79	Indicators for the Exposure Assessment of Transformation Products of Organic Micropollutants. <i>Environmental Science & Technology</i> , 2007, 41, 2445-2451.	10.0	23
80	The Challenge of Micropollutants in Aquatic Systems. <i>Science</i> , 2006, 313, 1072-1077.	12.6	2,873
81	Application of Multimedia Models for Screening Assessment of Long-Range Transport Potential and Overall Persistence. <i>Environmental Science & Technology</i> , 2006, 40, 53-60.	10.0	103
82	Including Mixtures in the Determination of Water Quality Criteria for Herbicides in Surface Water. <i>Environmental Science & Technology</i> , 2006, 40, 426-435.	10.0	115
83	Developing Methods to Predict Chemical Fate and Effect Endpoints for Use Within REACH. <i>Chimia</i> , 2006, 60, 683-690.	0.6	21
84	The EU-project ERAPharm - Incentives for the further development of guidance documents? (4 pages). <i>Environmental Science and Pollution Research</i> , 2005, 12, 62-65.	5.3	27
85	Predicting Methyltert-Butyl Ether, tert-Butyl Formate, and tert-Butyl Alcohol Levels in the Environment Using the Fugacity Approach. <i>Environmental Science & Technology</i> , 2005, 39, 3237-3244.	10.0	12
86	Comparing Estimates of Persistence and Long-Range Transport Potential among Multimedia Models. <i>Environmental Science & Technology</i> , 2005, 39, 1932-1942.	10.0	138
87	Comment on "High-Resolution Gas Chromatography Retention Data as Basis for the Estimation of Kow Values Using PCB Congeners as Secondary Standards". <i>Environmental Science & Technology</i> , 2004, 38, 2286-2287.	10.0	3
88	Peer Reviewed: When Synthetic Chemicals Degrade in the Environment. <i>Environmental Science & Technology</i> , 2004, 38, 368A-375A.	10.0	285
89	Prediction of overall persistence and long-range transport potential with multimedia fate models: robustness and sensitivity of results. <i>Environmental Pollution</i> , 2004, 128, 189-204.	7.5	27
90	Joint Persistence of Transformation Products in Chemicals Assessment: Case Studies and Uncertainty Analysis. <i>Risk Analysis</i> , 2003, 23, 35-53.	2.7	33

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91	Including Transformation Products into the Risk Assessment for Chemicals: The Case of Nonylphenol Ethoxylate Usage in Switzerland. <i>Environmental Science & Technology</i> , 2002, 36, 1147-1154.	10.0	67
92	Persistence of Parent Compounds and Transformation Products in a Level IV Multimedia Model. <i>Environmental Science & Technology</i> , 2000, 34, 3809-3817.	10.0	65
93	Investigation of the Cold Condensation of Persistent Organic Pollutants with a Global Multimedia Fate Model. <i>Environmental Science & Technology</i> , 2000, 34, 1842-1850.	10.0	143
94	Photofragmentation of OCIO Clusters in a Supersonic Jet at 360 and 275 nm. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5736-5741.	2.5	8