

Christian H Stamm

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

5,280
citations

94433

37
h-index

91884

69
g-index

143
all docs

143
docs citations

143
times ranked

5684
citing authors

#	ARTICLE	IF	CITATIONS
1	Reducing the Discharge of Micropollutants in the Aquatic Environment: The Benefits of Upgrading Wastewater Treatment Plants. <i>Environmental Science & Technology</i> , 2014, 48, 7683-7689.	10.0	451
2	How a Complete Pesticide Screening Changes the Assessment of Surface Water Quality. <i>Environmental Science & Technology</i> , 2014, 48, 5423-5432.	10.0	292
3	Significance of urban and agricultural land use for biocide and pesticide dynamics in surface waters. <i>Water Research</i> , 2010, 44, 2850-2862.	11.3	219
4	Future agriculture with minimized phosphorus losses to waters: Research needs and direction. <i>Ambio</i> , 2015, 44, 163-179.	5.5	210
5	Simultaneous Assessment of Sources, Processes, and Factors Influencing Herbicide Losses to Surface Waters in a Small Agricultural Catchment. <i>Environmental Science & Technology</i> , 2004, 38, 3827-3834.	10.0	151
6	Pesticides drive risk of micropollutants in wastewater-impacted streams during low flow conditions. <i>Water Research</i> , 2017, 110, 366-377.	11.3	146
7	Variability of Herbicide Losses from 13 Fields to Surface Water within a Small Catchment after a Controlled Herbicide Application. <i>Environmental Science & Technology</i> , 2004, 38, 3835-3841.	10.0	137
8	Dissipation and Transport of Veterinary Sulfonamide Antibiotics after Manure Application to Grassland in a Small Catchment. <i>Environmental Science & Technology</i> , 2007, 41, 7349-7355.	10.0	136
9	Surface Runoff and Transport of Sulfonamide Antibiotics and Tracers on Manured Grassland. <i>Journal of Environmental Quality</i> , 2005, 34, 1363-1371.	2.0	135
10	Sorption of the Veterinary Antimicrobial Sulfathiazole to Organic Materials of Different Origin. <i>Environmental Science & Technology</i> , 2007, 41, 132-138.	10.0	133
11	Incidental phosphorus losses“ are they significant and can they be predicted?. <i>Journal of Plant Nutrition and Soil Science</i> , 2003, 166, 459-468.	1.9	131
12	Integrating chemical analysis and bioanalysis to evaluate the contribution of wastewater effluent on the micropollutant burden in small streams. <i>Science of the Total Environment</i> , 2017, 576, 785-795.	8.0	131
13	Evaluation of in-situ calibration of Chemcatcher passive samplers for 322 micropollutants in agricultural and urban affected rivers. <i>Water Research</i> , 2015, 71, 306-317.	11.3	125
14	Time and pH-dependent sorption of the veterinary antimicrobial sulfathiazole to clay minerals and ferrihydrite. <i>Chemosphere</i> , 2007, 68, 1224-1231.	8.2	119
15	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
16	Relevance of urban glyphosate use for surface water quality. <i>Chemosphere</i> , 2010, 81, 422-429.	8.2	112
17	Exhaustive extraction of sulfonamide antibiotics from aged agricultural soils using pressurized liquid extraction. <i>Journal of Chromatography A</i> , 2006, 1128, 1-9.	3.7	104
18	Transport of Phosphate from Soil to Surface Waters by Preferential Flow. <i>Environmental Science & Technology</i> , 1998, 32, 1865-1869.	10.0	102

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19	Pesticide Risks in Small Streams—How to Get as Close as Possible to the Stress Imposed on Aquatic Organisms. <i>Environmental Science & Technology</i> , 2018, 52, 4526-4535.	10.0	100
20	Loss rates of urban biocides can exceed those of agricultural pesticides. <i>Science of the Total Environment</i> , 2011, 409, 920-932.	8.0	82
21	Unravelling the Impacts of Micropollutants in Aquatic Ecosystems. <i>Advances in Ecological Research</i> , 2016, 55, 183-223.	2.7	81
22	Multiple tracing of fast solute transport in a drained grassland soil. <i>Geoderma</i> , 2002, 109, 245-268.	5.1	79
23	Source area effects on herbicide losses to surface waters—A case study in the Swiss Plateau. <i>Agriculture, Ecosystems and Environment</i> , 2008, 128, 177-184.	5.3	78
24	Effects of artificial land drainage on hydrology, nutrient and pesticide fluxes from agricultural fields — A review. <i>Agriculture, Ecosystems and Environment</i> , 2018, 266, 84-99.	5.3	74
25	Spatial variability of herbicide mobilisation and transport at catchment scale: insights from a field experiment. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 1947-1967.	4.9	66
26	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
27	Agriculture versus wastewater pollution as drivers of macroinvertebrate community structure in streams. <i>Science of the Total Environment</i> , 2019, 659, 1256-1265.	8.0	60
28	Phosphorus losses in runoff from manured grassland of different soil P status at two rainfall intensities. <i>Agriculture, Ecosystems and Environment</i> , 2012, 153, 65-74.	5.3	59
29	Predicting critical source areas for diffuse herbicide losses to surface waters: Role of connectivity and boundary conditions. <i>Journal of Hydrology</i> , 2009, 365, 23-36.	5.4	56
30	Environmental context and magnitude of disturbance influence trait-mediated community responses to wastewater in streams. <i>Ecology and Evolution</i> , 2016, 6, 3923-3939.	1.9	53
31	Microbial community shifts in streams receiving treated wastewater effluent. <i>Science of the Total Environment</i> , 2020, 709, 135727.	8.0	52
32	Stream microbial communities and ecosystem functioning show complex responses to multiple stressors in wastewater. <i>Global Change Biology</i> , 2020, 26, 6363-6382.	9.5	52
33	Unraveling the riverine antibiotic resistome: The downstream fate of anthropogenic inputs. <i>Water Research</i> , 2021, 197, 117050.	11.3	50
34	Phosphorus export dynamics from two Swiss grassland catchments. <i>Journal of Hydrology</i> , 2005, 304, 139-150.	5.4	47
35	Temporal variation of pesticide mixtures in rivers of three agricultural watersheds during a major drought in the Western Cape, South Africa. <i>Water Research X</i> , 2020, 6, 100039.	6.1	44
36	Internal Concentrations in Gammarids Reveal Increased Risk of Organic Micropollutants in Wastewater-Impacted Streams. <i>Environmental Science & Technology</i> , 2018, 52, 10347-10358.	10.0	42

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37	Comparison of Atrazine Losses in Three Small Headwater Catchments. <i>Journal of Environmental Quality</i> , 2005, 34, 1873-1882.	2.0	40
38	What's More Important for Managing Phosphorus: Loads, Concentrations or Both?. <i>Environmental Science & Technology</i> , 2014, 48, 23-24.	10.0	40
39	Comparative Analysis of Pesticide Use Determinants Among Smallholder Farmers From Costa Rica and Uganda. <i>Environmental Health Insights</i> , 2020, 14, 117863022097241.	1.7	39
40	Reducing phosphorus losses from overfertilized grassland soils proves difficult in the short term. <i>Soil Use and Management</i> , 2007, 23, 154-164.	4.9	38
41	Depth Distribution of Sulfonamide Antibiotics in Pore Water of an Undisturbed Loamy Grassland Soil. <i>Journal of Environmental Quality</i> , 2007, 36, 588-596.	2.0	37
42	Integrated uncertainty assessment of discharge predictions with a statistical error model. <i>Water Resources Research</i> , 2013, 49, 4866-4884.	4.2	35
43	Exposure to Pesticides and Health Effects on Farm Owners and Workers From Conventional and Organic Agricultural Farms in Costa Rica: Protocol for a Cross-Sectional Study. <i>JMIR Research Protocols</i> , 2019, 8, e10914.	1.0	35
44	Modelling biocide leaching from facades. <i>Water Research</i> , 2011, 45, 3453-3460.	11.3	32
45	Model-based estimation of pesticides and transformation products and their export pathways in a headwater catchment. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 5213-5228.	4.9	32
46	Impact of wastewater on the microbial diversity of periphyton and its tolerance to micropollutants in an engineered flow-through channel system. <i>Water Research</i> , 2021, 203, 117486.	11.3	31
47	Environmental Risk Assessment of Fluctuating Diazinon Concentrations in an Urban and Agricultural Catchment Using Toxicokinetic-Toxicodynamic Modeling. <i>Environmental Science & Technology</i> , 2011, 45, 9783-9792.	10.0	30
48	Critical source areas for herbicides can change location depending on rain events. <i>Agriculture, Ecosystems and Environment</i> , 2014, 192, 85-94.	5.3	29
49	Resilience to heat waves in the aquatic snail <i>Lymnaea stagnalis</i> : Additive and interactive effects with micropollutants. <i>Freshwater Biology</i> , 2017, 62, 1831-1846.	2.4	29
50	Integrative Crop-Soil-Management Modeling to Assess Global Phosphorus Losses from Major Crop Cultivations. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1074-1086.	4.9	29
51	Spatial relationships between land-use, habitat, water quality and lotic macroinvertebrates in two Swiss catchments. <i>Aquatic Sciences</i> , 2014, 76, 375-392.	1.5	26
52	Misfit between physical affectedness and regulatory embeddedness: The case of drinking water supply along the Rhine River. <i>Global Environmental Change</i> , 2018, 48, 136-150.	7.8	25
53	Transportable Automated HRMS Platform ² Enables Insights into Water-Quality Dynamics in Real Time. <i>Environmental Science and Technology Letters</i> , 2021, 8, 373-380.	8.7	25
54	A parsimonious soil-type based rainfall-runoff model simultaneously tested in four small agricultural catchments. <i>Journal of Hydrology</i> , 2006, 321, 21-38.	5.4	23

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55	Spatial and Temporal Patterns of Pharmaceuticals in the Aquatic Environment: A Review. <i>Geography Compass</i> , 2008, 2, 920-955.	2.7	23
56	How stressor specific are trait-based ecological indices for ecosystem management?. <i>Science of the Total Environment</i> , 2015, 505, 565-572.	8.0	23
57	Effects of treated wastewater on the ecotoxicity of small streams – Unravelling the contribution of chemicals causing effects. <i>PLoS ONE</i> , 2019, 14, e0226278.	2.5	23
58	Retrospective screening of high-resolution mass spectrometry archived digital samples can improve environmental risk assessment of emerging contaminants: A case study on antifungal azoles. <i>Environment International</i> , 2020, 139, 105708.	10.0	23
59	Using discharge data to reduce structural deficits in a hydrological model with a Bayesian inference approach and the implications for the prediction of critical source areas. <i>Water Resources Research</i> , 2011, 47, .	4.2	22
60	The importance of hydrological uncertainty assessment methods in climate change impact studies. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3301-3317.	4.9	22
61	Micropollutant Removal from Wastewater: Facts and Decision-Making Despite Uncertainty. <i>Environmental Science & Technology</i> , 2015, 49, 6374-6375.	10.0	22
62	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
63	Physico-chemical characteristics affect the spatial distribution of pesticide and transformation product loss to an agricultural brook. <i>Science of the Total Environment</i> , 2015, 532, 733-743.	8.0	20
64	Relating Degradation of Pharmaceutical Active Ingredients in a Stream Network to Degradation in Water – Sediment Simulation Tests. <i>Water Resources Research</i> , 2018, 54, 9207-9223.	4.2	19
65	Towards circular phosphorus: The need of inter- and transdisciplinary research to close the broken cycle. <i>Ambio</i> , 2022, 51, 611-622.	5.5	19
66	Ground-Based Dual-Frequency Radiometry of Bare Soil at High Temporal Resolution. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 588-595.	6.3	17
67	Estimating Catchment Vulnerability to Diffuse Herbicide Losses from Hydrograph Statistics. <i>Journal of Environmental Quality</i> , 2010, 39, 1441-1450.	2.0	17
68	Wastewater microorganisms impact the micropollutant biotransformation potential of natural stream biofilms. <i>Water Research</i> , 2022, 217, 118413.	11.3	17
69	Modeling potential herbicide loss to surface waters on the Swiss plateau. <i>Journal of Environmental Management</i> , 2009, 91, 290-302.	7.8	16
70	Moving Targets, Long-Lived Infrastructure, and Increasing Needs for Integration and Adaptation in Water Management: An Illustration from Switzerland. <i>Environmental Science & Technology</i> , 2012, 46, 112-118.	10.0	16
71	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
72	Prediction of dissolved reactive phosphorus losses from small agricultural catchments: calibration and validation of a parsimonious model. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3679-3693.	4.9	15

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73	Hydraulic shortcuts increase the connectivity of arable land areas to surface waters. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1727-1746.	4.9	15
74	Effect of water composition on phosphorus concentration in runoff and water-soluble phosphate in two grassland soils. <i>European Journal of Soil Science</i> , 2006, 57, 228-234.	3.9	14
75	REXPO: A catchment model designed to understand and simulate the loss dynamics of plant protection products and biocides from agricultural and urban areas. <i>Journal of Hydrology</i> , 2016, 533, 486-514.	5.4	14
76	Can integrative catchment management mitigate future water quality issues caused by climate change and socio-economic development?. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 1593-1609.	4.9	14
77	Plants or bacteria? 130 years of mixed imprints in Lake Baldegg sediments (Switzerland), as revealed by compound-specific isotope analysis (CSIA) and biomarker analysis. <i>Biogeosciences</i> , 2019, 16, 2131-2146.	3.3	14
78	Multi-criteria decision analysis for integrated water quality assessment and management support. <i>Water Research X</i> , 2018, 1, 100010.	6.1	13
79	Characterizing fast herbicide transport in a small agricultural catchment with conceptual models. <i>Journal of Hydrology</i> , 2020, 586, 124812.	5.4	13
80	Sustainability assessment of GM crops in a Swiss agricultural context. <i>Agronomy for Sustainable Development</i> , 2013, 33, 21-61.	5.3	12
81	A comparison of three simple approaches to identify critical areas for runoff and dissolved reactive phosphorus losses. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2975-2991.	4.9	12
82	Modelling biocide and herbicide concentrations in catchments of the Rhine basin. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4229-4249.	4.9	12
83	Wastewater constituents impact biofilm microbial community in receiving streams. <i>Science of the Total Environment</i> , 2022, 807, 151080.	8.0	12
84	What agro-input dealers know, sell and say to smallholder farmers about pesticides: a mystery shopping and KAP analysis in Uganda. <i>Environmental Health</i> , 2021, 20, 100.	4.0	11
85	Are spray drift losses to agricultural roads more important for surface water contamination than direct drift to surface waters?. <i>Science of the Total Environment</i> , 2022, 809, 151102.	8.0	11
86	Validating a spatially distributed hydrological model with soil morphology data. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3481-3498.	4.9	10
87	Simultaneous exposure to a pulsed and a prolonged anthropogenic stressor can alter consumer multifunctionality. <i>Oikos</i> , 2018, 127, 1437-1448.	2.7	9
88	Improving Risk Assessment by Predicting the Survival of Field Gammarids Exposed to Dynamic Pesticide Mixtures. <i>Environmental Science & Technology</i> , 2020, 54, 12383-12392.	10.0	9
89	The time it takes to reduce soil legacy phosphorus to a tolerable level for surface waters: What we learn from a case study in the catchment of Lake Baldegg, Switzerland. <i>Geoderma</i> , 2021, 403, 115257.	5.1	9
90	Phosphorus Mobility in the Landscape. <i>Agronomy</i> , 0, , 941-979.	0.2	9

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91	Pesticide concentrations in agricultural storm drainage inlets of a small Swiss catchment. <i>Environmental Science and Pollution Research</i> , 2022, 29, 43966-43983.	5.3	7
92	Coupling River Concentration Simulations with a Toxicokinetic Model Effectively Predicts the Internal Concentrations of Wastewater-Derived Micropollutants in Field Gammarids. <i>Environmental Science & Technology</i> , 2020, 54, 1710-1719.	10.0	6
93	Participatory knowledge integration to promote safe pesticide use in Uganda. <i>Environmental Science and Policy</i> , 2022, 128, 154-164.	4.9	6
94	A triad of kicknet sampling, eDNA metabarcoding, and predictive modeling to assess richness of mayflies, stoneflies and caddisflies in rivers. <i>Metabarcoding and Metagenomics</i> , 0, 6, .	0.0	5
95	The importance of indirect effects of climate change adaptations on alpine and pre-Alpine freshwater systems. <i>Ecological Solutions and Evidence</i> , 2022, 3, .	2.0	4
96	Hysteresis and parent-metabolite analyses unravel characteristic pesticide transport mechanisms in a mixed land use catchment. <i>Water Research</i> , 2017, 124, 663-672.	11.3	3
97	Quantifying the Uncertainty of a Conceptual Herbicide Transport Model With Time-Dependent, Stochastic Parameters. <i>Water Resources Research</i> , 2021, 57, e2020WR028311.	4.2	3
98	Influence of soil structure on topsoil water dynamics observed by a groundbased 11.4 GHz microwave radiometer: first results. , 2002, 4542, 122.		2
99	Multifrequency ground-based radiometer and in-situ measurements of soil moisture at high temporal resolution. , 2003, , .		2
100	Estimating soil hydraulic properties from time series of remotely sensed and in-situ measured topsoil water contents. , 2003, 4879, 211.		0
101	Discrimination of Flow Regions on the Basis of Stained Infiltration Patterns in Soil Profiles. <i>Vadose Zone Journal</i> , 2003, 2, 338.	2.2	0
102	Title is missing!. , 2019, 14, e0226278.		0
103	Title is missing!. , 2019, 14, e0226278.		0
104	Title is missing!. , 2019, 14, e0226278.		0
105	Title is missing!. , 2019, 14, e0226278.		0