Ralf B Schfer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

135 papers	5,955 citations	41 h-index	74 g-index
147 ext. papers	7,362 ext. citations	7.4 avg, IF	6.03 L-index

#	Paper	IF	Citations
135	Three reasons why the Water Framework Directive (WFD) fails to identify pesticide risks. *Water Research*, **2022**, 208, 117848	12.5	2
134	Pesticide effects on macroinvertebrates and leaf litter decomposition in areas with traditional agriculture.. *Science of the Total Environment*, **2022**, 154549	10.2	0
133	Potential propagation of agricultural pesticide exposure and effects to upstream sections in a biosphere reserve.. *Science of the Total Environment*, **2022**, 155688	10.2	0
132	A global agenda for advancing freshwater biodiversity research. *Ecology Letters*, **2021**,	10	6
131	Spatiotemporal dynamics drive synergism of land use and climatic extreme events in insect meta-populations.. *Science of the Total Environment*, **2021**, 152602	10.2	1
130	Social-ecological interactions in the Draa River Basin, southern Morocco: Towards nature conservation and human well-being using the IPBES framework. *Science of the Total Environment*, **2021**, 769, 144492	10.2	5
129	Invertebrate turnover along gradients of anthropogenic salinisation in rivers of two German regions. *Science of the Total Environment*, **2021**, 753, 141986	10.2	4
128	Paradise lost? Pesticide pollution in a European region with considerable amount of traditional agriculture. *Water Research*, **2021**, 188, 116528	12.5	13
127	Indicators for assessing the robustness of metapopulations against habitat loss. *Ecological Indicators*, **2021**, 121, 106809	5.8	1
126	Mechanistic Effect Modeling of Earthworms in the Context of Pesticide Risk Assessment: Synthesis of the FORESEE Workshop. *Integrated Environmental Assessment and Management*, **2021**, 17, 352-363	2.5	6
125	How Toxicants Influence Organic Matter Decomposition in Streams **2021**, 379-410		1
124	Pesticides are the dominant stressors for vulnerable insects in lowland streams. *Water Research*, **2021**, 201, 117262	12.5	27
123	Small streams-large concentrations? Pesticide monitoring in small agricultural streams in Germany during dry weather and rainfall. *Water Research*, **2021**, 203, 117535	12.5	10
122	Mini-review of process-based food web models and their application in aquatic-terrestrial meta-ecosystems. *Ecological Modelling*, **2021**, 458, 109710	3	2
121	Risk from pesticide mixtures - The gap between risk assessment and reality. *Science of the Total Environment*, **2021**, 796, 149017	10.2	4
120	Revisiting global trends in freshwater insect biodiversity. *Wiley Interdisciplinary Reviews: Water*, **2021**, 8, e1506	5.7	6
119	Towards a unified study of multiple stressors: divisions and common goals across research disciplines. *Proceedings of the Royal Society B: Biological Sciences*, **2020**, 287, 20200421	4.4	75

118	Impacts of multiple stressors on freshwater biota across spatial scales and ecosystems. *Nature Ecology and Evolution*, **2020**, 4, 1060-1068	12.3	126
117	Assessing the Mixture Effects in Bioassays of Chemicals Occurring in Small Agricultural Streams during Rain Events. *Environmental Science & Technology*, **2020**, 54, 8280-8290	10.3	25
116	Standartox: Standardizing Toxicity Data. *Data*, **2020**, 5, 46	2.3	2
115	An integrated database of stream macroinvertebrate traits for Australia: concept and application. *Ecological Indicators*, **2020**, 114, 106280	5.8	9
114	Sampling rates for passive samplers exposed to a field-relevant peak of 42 organic pesticides. *Science of the Total Environment*, **2020**, 740, 140376	10.2	2
113	Should ecologists prefer model- over distance-based multivariate methods?. *Ecology and Evolution*, **2020**, 10, 2417-2435	2.8	10
112	Relationship between agricultural pesticides and the diet of riparian spiders in the field. *Environmental Sciences Europe*, **2020**, 32,	5	15
111	Maximising the clustering coefficient of networks and the effects on habitat network robustness. *PLoS ONE*, **2020**, 15, e0240940	3.7	4
110	webchem: An R Package to Retrieve Chemical Information from the Web. *Journal of Statistical Software*, **2020**, 93,	7.3	10
109	How does habitat connectivity influence the colonization success of a hemimetabolous aquatic insect? - A modeling approach. *Ecological Modelling*, **2020**, 416, 108909	3	5
108	Preparing GIS data for analysis of stream monitoring data: The R package openSTARS. *PLoS ONE*, **2020**, 15, e0239237	3.7	2
107	Assessment of polychlorinated biphenyls (PCBs) in the Himalayan Riverine Network of Azad Jammu and Kashmir. *Chemosphere*, **2020**, 240, 124762	8.4	9
106	Limitations of trait-based approaches for stressor assessment: The case of freshwater invertebrates and climate drivers. *Global Change Biology*, **2020**, 26, 364-379	11.4	14
105	Future pesticide risk assessment: narrowing the gap between intention and reality. *Environmental Sciences Europe*, **2019**, 31,	5	47
104	Effects of a Systemic Pesticide Along an Aquatic Tri-Trophic Food Chain. *Bulletin of Environmental Contamination and Toxicology*, **2019**, 103, 507-514	2.7	3
103	Responses of freshwater macroinvertebrates to pesticides: insights from field studies. *Current Opinion in Environmental Science and Health*, **2019**, 11, 1-7	8.1	14
102	Qualifying the effects of single and multiple stressors on the food web structure of Dutch drainage ditches using a literature review and conceptual models. *Science of the Total Environment*, **2019**, 684, 727-740	10.2	20
101	Fungicides: An Overlooked Pesticide Class?. *Environmental Science & Technology*, **2019**, 53, 3347-3365	10.3	172

100	Towards a general framework for the assessment of interactive effects of multiple stressors on aquatic ecosystems: Results from the Making Aquatic Ecosystems Great Again (MAEGA) workshop. *Science of the Total Environment*, **2019**, 684, 722-726	10.2	13
99	Optimisation Model of Dispersal Simulations on a Dendritic Habitat Network. *Scientific Reports*, **2019**, 9, 8202	4.9	3
98	Assessment of organochlorine pesticides in the Himalayan riverine ecosystems from Pakistan using passive sampling techniques. *Environmental Science and Pollution Research*, **2019**, 26, 6023-6037	5.1	16
97	Do agricultural pesticides in streams influence riparian spiders?. *Science of the Total Environment*, **2019**, 660, 126-135	10.2	19
96	Advancing understanding and prediction in multiple stressor research through a mechanistic basis for null models. *Global Change Biology*, **2018**, 24, 1817-1826	11.4	77
95	Towards stressor-specific macroinvertebrate indices: Which traits and taxonomic groups are associated with vulnerable and tolerant taxa?. *Science of the Total Environment*, **2018**, 619-620, 144-154	10.2	36
94	Ecotoxicology **2018**, 225-239		1
93	Salt in freshwaters: causes, effects and prospects - introduction to the theme issue. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 374,	5.8	60
92	Predicting current and future background ion concentrations in German surface water under climate change. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 374,	5.8	22
91	Salinity impacts on river ecosystem processes: a critical mini-review. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2018**, 374,	5.8	31
90	Similar recovery time of microbial functions from fungicide stress across biogeographical regions. *Scientific Reports*, **2018**, 8, 17021	4.9	2
89	Water quality variables and pollution sources shaping stream macroinvertebrate communities. *Science of the Total Environment*, **2017**, 587-588, 1-10	10.2	43
88	Resilience in ecotoxicology: Toward a multiple equilibrium concept. *Environmental Toxicology and Chemistry*, **2017**, 36, 2574-2580	3.8	6
87	Comparison of dilution factors for German wastewater treatment plant effluents in receiving streams to the fixed dilution factor from chemical risk assessment. *Science of the Total Environment* , **2017**, 598, 805-813	10.2	27
86	Does the loss of climate sensitive detritivore species alter leaf decomposition?. *Aquatic Sciences*, **2017**, 79, 869-879	2.5	5
85	Large Scale Risks from Agricultural Pesticides in Small Streams. *Environmental Science & Technology*, **2017**, 51, 7378-7385	10.3	68
84	Contrasting effects of aquatic subsidies on a terrestrial trophic cascade. *Biology Letters*, **2017**, 13,	3.6	11
83	Taxonomic and functional diversity of stream invertebrates along an environmental stress gradient. *Ecological Indicators*, **2017**, 81, 235-242	5.8	20

82	Fractionation of copper and uranium in organic and conventional vineyard soils and adjacent stream sediments studied by sequential extraction. *Journal of Soils and Sediments*, **2017**, 17, 1092-1100	3.4	9
81	Regional-scale lateral carbon transport and CO₂ evasion in temperate stream catchments. *Biogeosciences*, **2017**, 14, 5003-5014	4.6	7
80	Contribution of waste water treatment plants to pesticide toxicity in agriculture catchments. *Ecotoxicology and Environmental Safety*, **2017**, 145, 135-141	7	35
79	Assessing recovery of stream insects from pesticides using a two-patch metapopulation model. *Science of the Total Environment*, **2017**, 609, 788-798	10.2	5
78	Towards the review of the European Union Water Framework Directive: Recommendations for more efficient assessment and management of chemical contamination in European surface water resources. *Science of the Total Environment*, **2017**, 576, 720-737	10.2	196
77	Using ecological production functions to link ecological processes to ecosystem services. *Integrated Environmental Assessment and Management*, **2017**, 13, 52-61	2.5	33
76	Specifics and challenges of assessing exposure and effects of pesticides in small water bodies. *Hydrobiologia*, **2017**, 793, 213-224	2.4	50
75	Modelling survival: exposure pattern, species sensitivity and uncertainty. *Scientific Reports*, **2016**, 6, 29178	4.9	40
74	Predicting the synergy of multiple stress effects. *Scientific Reports*, **2016**, 6, 32965	4.9	125
73	Looking beneath the surface: using hydrogeology and traits to explain flow variability effects on stream macroinvertebrates. *Ecohydrology*, **2016**, 9, 1480-1495	2.5	8
72	No association between the use of Bti for mosquito control and the dynamics of non-target aquatic invertebrates in French coastal and continental wetlands. *Science of the Total Environment*, **2016**, 553, 486-494	10.2	23
71	WATER. Saving freshwater from salts. *Science*, **2016**, 351, 914-6	33.3	163
70	Does nutrient enrichment compensate fungicide effects on litter decomposition and decomposer communities in streams?. *Aquatic Toxicology*, **2016**, 174, 169-78	5.1	14
69	Evolutionary patterns and physicochemical properties explain macroinvertebrate sensitivity to heavy metals **2016**, 26, 1249-59		19
68	Effect of Small Impoundments on Leaf Litter Decomposition in Streams. *River Research and Applications*, **2016**, 32, 907-913	2.3	6
67	Statistical hypothesis testing--To transform or not to transform?. *Integrated Environmental Assessment and Management*, **2016**, 12, 398-400	2.5	
66	Effects of salinity on leaf breakdown: Dryland salinity versus salinity from a coalmine. *Aquatic Toxicology*, **2016**, 177, 425-32	5.1	34
65	Pesticide mixtures in streams of several European countries and the USA. *Science of the Total Environment*, **2016**, 573, 680-689	10.2	100

64	Contribution of organic toxicants to multiple stress in river ecosystems. *Freshwater Biology*, **2016**, 61, 2116-2128	3.1	59
63	Ecotoxicology is not normal: A comparison of statistical approaches for analysis of count and proportion data in ecotoxicology. *Environmental Science and Pollution Research*, **2015**, 22, 13990-9	5.1	29
62	Effects of fungicides on decomposer communities and litter decomposition in vineyard streams. *Science of the Total Environment*, **2015**, 533, 40-8	10.2	61
61	Organic matter breakdown in streams in a region of contrasting anthropogenic land use. *Science of the Total Environment*, **2015**, 527-528, 179-84	10.2	9
60	Sublethal effects of imidacloprid on interactions in a tritrophic system of non-target species. *Chemosphere*, **2015**, 132, 152-8	8.4	15
59	Analysing chemical-induced changes in macroinvertebrate communities in aquatic mesocosm experiments: a comparison of methods. *Ecotoxicology*, **2015**, 24, 760-9	2.9	20
58	Meta-analysis on the responses of traits of different taxonomic groups to global and local stressors. *Acta Oecologica*, **2015**, 69, 65-70	1.7	5
57	Review on environmental alterations propagating from aquatic to terrestrial ecosystems. *Science of the Total Environment*, **2015**, 538, 246-61	10.2	61
56	Pesticide runoff from energy crops: A threat to aquatic invertebrates?. *Science of the Total Environment*, **2015**, 537, 187-96	10.2	14
55	Mapping human health risks from exposure to trace metal contamination of drinking water sources in Pakistan. *Science of the Total Environment*, **2015**, 538, 306-16	10.2	72
54	An automated, objective and open source tool for stream threshold selection and upstream riparian corridor delineation. *Environmental Modelling and Software*, **2015**, 63, 240-250	5.2	22
53	Aquatic prey subsidies to riparian spiders in a stream with different land use types. *Limnologica*, **2015**, 51, 1-7	2	24
52	Preface to the special section Biohydrology - Water for life *Ecohydrology*, **2015**, 8, 353-354	2.5	
51	Effects of hedgerows and riparian margins on aerial web-building spiders in cereal fields. *Journal of Arachnology*, **2015**, 43, 400-405	1.1	9
50	Modeling global distribution of agricultural insecticides in surface waters. *Environmental Pollution*, **2015**, 198, 54-60	9.3	73
49	Large Scale Relationship between Aquatic Insect Traits and Climate. *PLoS ONE*, **2015**, 10, e0130025	3.7	17
48	Effects of anthropogenic salinization on biological traits and community composition of stream macroinvertebrates. *Science of the Total Environment*, **2014**, 468-469, 943-9	10.2	38
47	Calibration and field application of passive sampling for episodic exposure to polar organic pesticides in streams. *Environmental Pollution*, **2014**, 194, 196-202	9.3	42

46	Environmental stressors can enhance the development of community tolerance to a toxicant. *Ecotoxicology*, **2014**, 23, 1690-700	2.9	5
45	Do predictions from Species Sensitivity Distributions match with field data?. *Environmental Pollution*, **2014**, 189, 126-33	9.3	38
44	Effects of repeated salt pulses on ecosystem structure and functions in a stream mesocosm. *Science of the Total Environment*, **2014**, 476-477, 634-42	10.2	55
43	Organic chemicals jeopardize the health of freshwater ecosystems on the continental scale. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 9549-54	11.5	431
42	In response: why we need landscape ecotoxicology and how it could be advanced--an academic perspective. *Environmental Toxicology and Chemistry*, **2014**, 33, 1193-4	3.8	7
41	Methane-derived carbon in the benthic food web in stream impoundments. *PLoS ONE*, **2014**, 9, e111392	3.7	3
40	Monitoring Programmes, Multiple Stress Analysis and Decision Support for River Basin Management. *Handbook of Environmental Chemistry*, **2014**, 151-182	0.8	1
39	Status and Causal Pathway Assessments Supporting River Basin Management. *Handbook of Environmental Chemistry*, **2014**, 53-149	0.8	1
38	Pesticides reduce regional biodiversity of stream invertebrates. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 11039-43	11.5	420
37	Salinisation of rivers: an urgent ecological issue. *Environmental Pollution*, **2013**, 173, 157-67	9.3	377
36	Two stressors and a community: effects of hydrological disturbance and a toxicant on freshwater zooplankton. *Aquatic Toxicology*, **2013**, 127, 9-20	5.1	23
35	How to characterize chemical exposure to predict ecologic effects on aquatic communities?. *Environmental Science & Technology*, **2013**, 47, 7996-8004	10.3	56
34	Review on the effects of toxicants on freshwater ecosystem functions. *Environmental Pollution*, **2013**, 180, 324-9	9.3	95
33	An expert-based landscape permeability model for assessing the impact of agricultural management on amphibian migration. *Basic and Applied Ecology*, **2013**, 14, 442-451	3.2	18
32	Response to comment on "Regulatory FOCUS surface water models fail to predict insecticide concentrations in the field". *Environmental Science & Technology*, **2013**, 47, 1179-80	10.3	2
31	Response to comment on "regulatory focus surface water models fail to predict insecticide concentrations in the field". *Environmental Science & Technology*, **2013**, 47, 3017-8	10.3	2
30	Ecotoxicology. *Environmental Toxicology and Chemistry*, **2013**, 32, 734-5	3.8	6
29	Encyclopedia of Aquatic Ecotoxicology **2013**, 1063-1072		2

28	Risk assessment of salinity and turbidity in Victoria (Australia) to stream insects' community structure does not always protect functional traits. *Science of the Total Environment*, **2012**, 415, 61-8	10.2	28
27	Effects of pesticide toxicity, salinity and other environmental variables on selected ecosystem functions in streams and the relevance for ecosystem services. *Science of the Total Environment*, **2012**, 415, 69-78	10.2	92
26	Biodiversity, ecosystem functions and services in environmental risk assessment: introduction to the special issue. *Science of the Total Environment*, **2012**, 415, 1-2	10.2	9
25	Risk assessment of episodic exposures to chemicals should consider both the physiological and the ecological sensitivities of species. *Science of the Total Environment*, **2012**, 441, 213-9	10.2	8
24	Is there an interaction of the effects of salinity and pesticides on the community structure of macroinvertebrates?. *Science of the Total Environment*, **2012**, 437, 121-6	10.2	22
23	Regulatory FOCUS surface water models fail to predict insecticide concentrations in the field. *Environmental Science & Technology*, **2012**, 46, 8397-404	10.3	41
22	Thresholds for the effects of pesticides on invertebrate communities and leaf breakdown in stream ecosystems. *Environmental Science & Technology*, **2012**, 46, 5134-42	10.3	190
21	Physiological sensitivity of freshwater macroinvertebrates to heavy metals. *Environmental Toxicology and Chemistry*, **2012**, 31, 1754-64	3.8	30
20	Effects of pesticides monitored with three sampling methods in 24 sites on macroinvertebrates and microorganisms. *Environmental Science & Technology*, **2011**, 45, 1665-72	10.3	138
19	Occurrence and toxicity of 331 organic pollutants in large rivers of north Germany over a decade (1994 to 2004). *Environmental Science & Technology*, **2011**, 45, 6167-74	10.3	66
18	Pesticide risk mitigation by vegetated treatment systems: a meta-analysis. *Journal of Environmental Quality*, **2011**, 40, 1068-80	3.4	91
17	Perspectives from early career researchers on the publication process in ecology a response to Statzner & Resh (2010). *Freshwater Biology*, **2011**, 56, 2405-2412	3.1	17
16	A trait database of stream invertebrates for the ecological risk assessment of single and combined effects of salinity and pesticides in South-East Australia. *Science of the Total Environment*, **2011**, 409, 2055-63	10.2	100
15	Modelling aquatic exposure and effects of insecticides--application to south-eastern Australia. *Science of the Total Environment*, **2011**, 409, 2807-14	10.2	19
14	The definition of species richness used by species sensitivity distributions approximates observed effects of salinity on stream macroinvertebrates. *Environmental Pollution*, **2011**, 159, 302-310	9.3	71
13	Impacts of Pesticides on Freshwater Ecosystems **2011**, 111-137		24
12	Using silicone passive samplers to detect polycyclic aromatic hydrocarbons from wildfires in streams and potential acute effects for invertebrate communities. *Water Research*, **2010**, 44, 4590-600	12.5	35
11	A similarity-index-based method to estimate chemical concentration limits protective for ecological communities. *Environmental Toxicology and Chemistry*, **2010**, 29, 2123-31	3.8	16

10	SPEAR indicates pesticide effects in streams--comparative use of species- and family-level biomonitoring data. *Environmental Pollution*, **2009**, 157, 1841-8	9.3	81
9	The footprint of pesticide stress in communities--species traits reveal community effects of toxicants. *Science of the Total Environment*, **2008**, 406, 484-90	10.2	148
8	Long-term stream invertebrate community alterations induced by the insecticide thiacloprid: effect concentrations and recovery dynamics. *Science of the Total Environment*, **2008**, 405, 96-108	10.2	102
7	Performance of the Chemcatcher passive sampler when used to monitor 10 polar and semi-polar pesticides in 16 Central European streams, and comparison with two other sampling methods. *Water Research*, **2008**, 42, 2707-17	12.5	59
6	Calibration of the Chemcatcher passive sampler for monitoring selected polar and semi-polar pesticides in surface water. *Environmental Pollution*, **2008**, 155, 52-60	9.3	66
5	Determination of 10 particle-associated multiclass polar and semi-polar pesticides from small streams using accelerated solvent extraction. *Chemosphere*, **2008**, 70, 1952-60	8.4	14
4	Aquatic passive sampling of a short-term thiacloprid pulse with the Chemcatcher: impact of biofouling and use of a diffusion-limiting membrane on the sampling rate. *Journal of Chromatography A*, **2008**, 1203, 1-6	4.5	45
3	Water quality indices across Europe--a comparison of the good ecological status of five river basins. *Journal of Environmental Monitoring*, **2007**, 9, 970-8		55
2	Effects of pesticides on community structure and ecosystem functions in agricultural streams of three biogeographical regions in Europe. *Science of the Total Environment*, **2007**, 382, 272-85	10.2	292
1	Tackling inconsistencies among freshwater invertebrate trait databases: harmonising across continents and aggregating taxonomic resolution. *Freshwater Biology*,	3.1	2