

# Mechthild Schmitt-Jansen

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

4,099  
citations

201385

27  
h-index

138251

58  
g-index

61  
all docs

61  
docs citations

61  
times ranked

4672  
citing authors

#	ARTICLE	IF	CITATIONS
1	Community metabolomics provides insights into mechanisms of pollution-induced community tolerance of periphyton. <i>Science of the Total Environment</i> , 2022, 824, 153777.	3.9	6
2	Microplastic: A New Habitat for Biofilm Communities. , 2022, , 1049-1068.		0
3	Evaluating Multiple Stressor Effects on Benthicâ€“Pelagic Freshwater Communities in Systems of Different Complexities: Challenges in Upscaling. <i>Water (Switzerland)</i> , 2022, 14, 581.	1.2	3
4	Multiple-stressor exposure of aquatic food webs: Nitrate and warming modulate the effect of pesticides. <i>Water Research</i> , 2022, 216, 118325.	5.3	14
5	Effects of leachates from UV-weathered microplastic on the microalgae <i>Scenedesmus vacuolatus</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 1469-1479.	1.9	24
6	Warming lowers critical thresholds for multiple stressorâ€“induced shifts between aquatic primary producers. <i>Science of the Total Environment</i> , 2022, 838, 156511.	3.9	12
7	Interactions between microplastics and benthic biofilms in fluvial ecosystems: Knowledge gaps and future trends. <i>Freshwater Science</i> , 2022, 41, 442-458.	0.9	10
8	Disentangling the direct and indirect effects of agricultural runoff on freshwater ecosystems subject to global warming: A microcosm study. <i>Water Research</i> , 2021, 190, 116713.	5.3	20
9	Weathering Plastics as a Planetary Boundary Threat: Exposure, Fate, and Hazards. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7246-7255.	4.6	152
10	Disentangling multiple chemical and non-chemical stressors in a lotic ecosystem using a longitudinal approach. <i>Science of the Total Environment</i> , 2021, 769, 144324.	3.9	24
11	Pesticides are the dominant stressors for vulnerable insects in lowland streams. <i>Water Research</i> , 2021, 201, 117262.	5.3	118
12	Conditioning Film and Early Biofilm Succession on Plastic Surfaces. <i>Environmental Science &amp; Technology</i> , 2021, 55, 11006-11018.	4.6	45
13	A multi-omics concentration-response framework uncovers novel understanding of triclosan effects in the chlorophyte <i>Scenedesmus vacuolatus</i> . <i>Journal of Hazardous Materials</i> , 2020, 397, 122727.	6.5	25
14	In-situ treatment of herbicide-contaminated groundwaterâ€“Feasibility study for the cases atrazine and bromacil using two novel nanoremediation-type materials. <i>Journal of Hazardous Materials</i> , 2020, 393, 122470.	6.5	22
15	Resilience trinity: safeguarding ecosystem functioning and services across three different time horizons and decision contexts. <i>Oikos</i> , 2020, 129, 445-456.	1.2	33
16	Streamside mobile mesocosms (MOBICOS): A new modular research infrastructure for hydroâ€“ecological process studies across catchmentâ€“scale gradients. <i>International Review of Hydrobiology</i> , 2020, 105, 63-73.	0.5	11
17	Microplastic â€“ A New Habitat for Biofilm Communities. , 2020, , 1-20.		0
18	Investigation of architecture development and phosphate distribution in <i>Chlorella</i> biofilm by complementary microscopy techniques. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	1.3	10

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19	Hydrodynamics Alter the Tolerance of Autotrophic Biofilm Communities Toward Herbicides. <i>Frontiers in Microbiology</i> , 2018, 9, 2884.	1.5	16
20	DRomics: A Turnkey Tool to Support the Use of the Dose-Response Framework for Omics Data in Ecological Risk Assessment. <i>Environmental Science &amp; Technology</i> , 2018, 52, 14461-14468.	4.6	37
21	Towards a holistic and solution-oriented monitoring of chemical status of European water bodies: how to support the EU strategy for a non-toxic environment?. <i>Environmental Sciences Europe</i> , 2018, 30, 33.	2.6	76
22	Reducing Uncertainty and Confronting Ignorance about the Possible Impacts of Weathering Plastic in the Marine Environment. <i>Environmental Science and Technology Letters</i> , 2017, 4, 85-90.	3.9	372
23	From the sea to the laboratory: Characterization of microplastic as prerequisite for the assessment of ecotoxicological impact. <i>Integrated Environmental Assessment and Management</i> , 2017, 13, 500-504.	1.6	50
24	Impacts of Biofilm Formation on the Fate and Potential Effects of Microplastic in the Aquatic Environment. <i>Environmental Science and Technology Letters</i> , 2017, 4, 258-267.	3.9	881
25	Pollution-induced community tolerance (PICT): towards an ecologically relevant risk assessment of chemicals in aquatic systems. <i>Freshwater Biology</i> , 2016, 61, 2141-2151.	1.2	86
26	Induced community tolerance of periphyton towards combined salt and toxic stress. <i>Freshwater Biology</i> , 2016, 61, 2152-2161.	1.2	10
27	Metabolic Effect Level Index Links Multivariate Metabolic Fingerprints to Ecotoxicological Effect Assessment. <i>Environmental Science &amp; Technology</i> , 2015, 49, 8096-8104.	4.6	27
28	Pollution-Induced Community Tolerance To Diagnose Hazardous Chemicals in Multiple Contaminated Aquatic Systems. <i>Environmental Science &amp; Technology</i> , 2015, 49, 10048-10056.	4.6	16
29	Interlaboratory trial of a standardized sediment contact test with the aquatic plant <i>Myriophyllum aquaticum</i> (ISO 16191). <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 662-670.	2.2	10
30	Alginate/silica hybrid materials for immobilization of green microalgae <i>Chlorella vulgaris</i> for cell-based sensor arrays. <i>Journal of Materials Chemistry B</i> , 2014, 2, 7896-7909.	2.9	44
31	Proposal for applying a component-based mixture approach for ecotoxicological assessment of fracturing fluids. <i>Environmental Earth Sciences</i> , 2013, 70, 3907-3920.	1.3	24
32	Multiple stressors in periphyton - comparison of observed and predicted tolerance responses to high ionic loads and herbicide exposure. <i>Journal of Applied Ecology</i> , 2013, 50, 1459-1468.	1.9	28
33	Flow cytometry as a diagnostic tool for the effects of polyphenolic allelochemicals on phytoplankton. <i>Aquatic Botany</i> , 2013, 104, 5-14.	0.8	19
34	Mixture Toxicity Revisited from a Toxicogenomic Perspective. <i>Environmental Science &amp; Technology</i> , 2012, 46, 2508-2522.	4.6	135
35	Advances in the Multibiomarker Approach for Risk Assessment in Aquatic Ecosystems. <i>Handbook of Environmental Chemistry</i> , 2012, , 147-179.	0.2	11
36	The response of macroinvertebrate community taxa and functional groups to pollution along a heavily impacted river in Central Europe (BÁlina River, Czech Republic). <i>Biologia (Poland)</i> , 2012, 67, 180-199.	0.8	12

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37	Triclosan – the forgotten priority substance?. <i>Environmental Science and Pollution Research</i> , 2012, 19, 585-591.	2.7	71
38	The Use of Photosynthetic Fluorescence Parameters from Autotrophic Biofilms for Monitoring the Effect of Chemicals in River Ecosystems. <i>Handbook of Environmental Chemistry</i> , 2012, , 85-115.	0.2	20
39	Active bio-monitoring of contamination in aquatic systems – An in situ translocation experiment applying the PICT concept. <i>Aquatic Toxicology</i> , 2011, 101, 228-236.	1.9	54
40	Ecological Relevance of Key Toxicants in Aquatic Systems. <i>Handbook of Environmental Chemistry</i> , 2011, , 315-339.	0.2	2
41	Identification of a phytotoxic photo-transformation product of diclofenac using effect-directed analysis. <i>Environmental Pollution</i> , 2010, 158, 1461-1466.	3.7	69
42	Anchoring metabolic changes to phenotypic effects in the chlorophyte <i>Scenedesmus vacuolatus</i> under chemical exposure. <i>Marine Environmental Research</i> , 2010, 69, S28-S30.	1.1	13
43	In situ cage experiments with <i>Potamopyrgus antipodarum</i> – A novel tool for real life exposure assessment in freshwater ecosystems. <i>Ecotoxicology and Environmental Safety</i> , 2010, 73, 1574-1579.	2.9	22
44	A metabolomics approach to assessing phytotoxic effects on the green alga <i>Scenedesmus vacuolatus</i> . <i>Metabolomics</i> , 2009, 5, 59-71.	1.4	39
45	Photostability and phytotoxicity of selected sunscreen agents and their degradation mixtures in water. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 1513-1524.	1.9	172
46	How to confirm identified toxicants in effect-directed analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1959-1973.	1.9	91
47	Pollution – induced community tolerance as a measure of species interaction in toxicity assessment. <i>Journal of Applied Ecology</i> , 2008, 45, 1514-1522.	1.9	80
48	An ecological perspective in aquatic ecotoxicology: Approaches and challenges. <i>Basic and Applied Ecology</i> , 2008, 9, 337-345.	1.2	104
49	Community-level microalgal toxicity assessment by multiwavelength-excitation PAM fluorometry. <i>Aquatic Toxicology</i> , 2008, 86, 49-58.	1.9	82
50	What contributes to the sensitivity of microalgae to triclosan?. <i>Aquatic Toxicology</i> , 2008, 90, 102-108.	1.9	103
51	Bioassays with Unicellular Algae: Deviations from Exponential Growth and Its Implications for Toxicity Test Results. <i>Journal of Environmental Quality</i> , 2008, 37, 16-21.	1.0	20
52	The use of pulse-amplitude modulated (PAM) fluorescence-based methods to evaluate effects of herbicides in microalgal systems of different complexity. <i>Toxicological and Environmental Chemistry</i> , 2007, 89, 665-681.	0.6	21
53	FLOW CYTOMETRY AS A TOOL TO STUDY PHYTOTOXIC MODES OF ACTION. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 297.	2.2	44
54	Phytotoxicity assessment of diclofenac and its phototransformation products. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1389-1396.	1.9	129

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55	Monitoring the effect of chemicals on biological communities. The biofilm as an interface. Analytical and Bioanalytical Chemistry, 2007, 387, 1425-1434.	1.9	341
56	MODELKEY. Models for assessing and forecasting the impact of environmental key pollutants on freshwater and marine ecosystems and biodiversity (5 pp). Environmental Science and Pollution Research, 2005, 12, 252-256.	2.7	76
57	PREDICTING AND OBSERVING RESPONSES OF ALGAL COMMUNITIES TO PHOTOSYSTEM IIâ€“HERBICIDE EXPOSURE USING POLLUTION-INDUCED COMMUNITY TOLERANCE AND SPECIES-SENSITIVITY DISTRIBUTIONS. Environmental Toxicology and Chemistry, 2005, 24, 304.	2.2	78
58	Toxic effects of isoproturon on periphyton communities â€“ a microcosm study. Estuarine, Coastal and Shelf Science, 2005, 62, 539-545.	0.9	76
59	Chapter 5 Predicting toxic effects of contaminants in ecosystems using single species investigations. Trace Metals and Other Contaminants in the Environment, 2003, 6, 153-198.	0.1	6