

# 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	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
2	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
3	Monitoring the effect of chemicals on biological communities. The biofilm as an interface. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1425-1434.	1.9	341
4	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
5	Weathering Plastics as a Planetary Boundary Threat: Exposure, Fate, and Hazards. <i>Environmental Science &amp; Technology</i> , 2021, 55, 7246-7255.	4.6	152
6	Mixture Toxicity Revisited from a Toxicogenomic Perspective. <i>Environmental Science &amp; Technology</i> , 2012, 46, 2508-2522.	4.6	135
7	Phytotoxicity assessment of diclofenac and its phototransformation products. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1389-1396.	1.9	129
8	Pesticides are the dominant stressors for vulnerable insects in lowland streams. <i>Water Research</i> , 2021, 201, 117262.	5.3	118
9	An ecological perspective in aquatic ecotoxicology: Approaches and challenges. <i>Basic and Applied Ecology</i> , 2008, 9, 337-345.	1.2	104
10	What contributes to the sensitivity of microalgae to triclosan?. <i>Aquatic Toxicology</i> , 2008, 90, 102-108.	1.9	103
11	How to confirm identified toxicants in effect-directed analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 1959-1973.	1.9	91
12	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
13	Community-level microalgal toxicity assessment by multiwavelength-excitation PAM fluorometry. <i>Aquatic Toxicology</i> , 2008, 86, 49-58.	1.9	82
14	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
15	PREDICTING AND OBSERVING RESPONSES OF ALGAL COMMUNITIES TO PHOTOSYSTEM II HERBICIDE EXPOSURE USING POLLUTION-INDUCED COMMUNITY TOLERANCE AND SPECIES-SENSITIVITY DISTRIBUTIONS. <i>Environmental Toxicology and Chemistry</i> , 2005, 24, 304.	2.2	78
16	MODELKEY. Models for assessing and forecasting the impact of environmental key pollutants on freshwater and marine ecosystems and biodiversity (5 pp). <i>Environmental Science and Pollution Research</i> , 2005, 12, 252-256.	2.7	76
17	Toxic effects of isoproturon on periphyton communities – a microcosm study. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 62, 539-545.	0.9	76
18	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

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19	Triclosan – the forgotten priority substance?. <i>Environmental Science and Pollution Research</i> , 2012, 19, 585-591.	2.7	71
20	Identification of a phytotoxic photo-transformation product of diclofenac using effect-directed analysis. <i>Environmental Pollution</i> , 2010, 158, 1461-1466.	3.7	69
21	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
22	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
23	Conditioning Film and Early Biofilm Succession on Plastic Surfaces. <i>Environmental Science &amp; Technology</i> , 2021, 55, 11006-11018.	4.6	45
24	FLOW CYTOMETRY AS A TOOL TO STUDY PHYTOTOXIC MODES OF ACTION. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 297.	2.2	44
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	In-situ treatment of herbicide-contaminated groundwater – 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

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37	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
38	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
39	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
40	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
41	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
42	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
43	Hydrodynamics Alter the Tolerance of Autotrophic Biofilm Communities Toward Herbicides. <i>Frontiers in Microbiology</i> , 2018, 9, 2884.	1.5	16
44	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
45	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
46	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
47	Warming lowers critical thresholds for multiple stressorâ€œinduced shifts between aquatic primary producers. <i>Science of the Total Environment</i> , 2022, 838, 156511.	3.9	12
48	Advances in the Multibiomarker Approach for Risk Assessment in Aquatic Ecosystems. <i>Handbook of Environmental Chemistry</i> , 2012, , 147-179.	0.2	11
49	Streamside mobile mesocosms (MOBICOS): A new modular research infrastructure for hydroâ€œecological process studies across catchmentâ€œscale gradients. <i>International Review of Hydrobiology</i> , 2020, 105, 63-73.	0.5	11
50	Interâ€œlaboratory 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
51	Induced community tolerance of periphyton towards combined salt and toxic stress. <i>Freshwater Biology</i> , 2016, 61, 2152-2161.	1.2	10
52	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
53	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
54	Chapter 5 Predicting toxic effects of contaminants in ecosystems using single species investigations. <i>Trace Metals and Other Contaminants in the Environment</i> , 2003, 6, 153-198.	0.1	6

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55	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
56	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
57	Ecological Relevance of Key Toxicants in Aquatic Systems. <i>Handbook of Environmental Chemistry</i> , 2011, , 315-339.	0.2	2
58	Microplastic â€“ A New Habitat for Biofilm Communities. , 2020, , 1-20.		0
59	Microplastic: A New Habitat for Biofilm Communities. , 2022, , 1049-1068.		0