Nele Schuwirth

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3037670/publications.pdf

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38	1,272	361413 20	361022 35
papers	citations	h-index	g-index

39	39	39	1887
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The method matters: A guide for indicator aggregation in ecological assessments. Ecological Indicators, 2014, 45, 494-507.	6.3	108
2	How to make ecological models useful for environmental management. Ecological Modelling, 2019, 411, 108784.	2.5	108
3	Tackling uncertainty in multi-criteria decision analysis â€“ An application to water supply infrastructure planning. European Journal of Operational Research, 2015, 242, 243-260.	5.7	107
4	The conceptual foundation of environmental decision support. Journal of Environmental Management, 2015, 154, 316-332.	7.8	105
5	FORUM: Ecological networks: the missing links in biomonitoring science. Journal of Applied Ecology, 2014, 51, 1444-1449.	4.0	92
6	Linking statistical bias description to multiobjective model calibration. Water Resources Research, 2012, 48, .	4.2	72
7	Multiple-Criteria Decision Analysis Reveals High Stakeholder Preference to Remove Pharmaceuticals from Hospital Wastewater. Environmental Science & Technology, 2011, 45, 3848-3857.	10.0	60
8	Methodological aspects of multi-criteria decision analysis for policy support: A case study on pharmaceutical removal from hospital wastewater. European Journal of Operational Research, 2012, 220, 472-483.	5.7	60
9	Constructing, evaluating and visualizing value and utility functions for decision support. Environmental Modelling and Software, 2013, 46, 283-291.	4.5	44
10	Ecological assessment of river networks: From reach to catchment scale. Science of the Total Environment, 2019, 650, 1613-1627.	8.0	44
11	Vertical Distribution and Speciation of Trace Metals in Weathering Flotation Residues of a Zinc/Lead Sulfide Mine. Journal of Environmental Quality, 2007, 36, 61-69.	2.0	41
12	How to make river assessments comparable: A demonstration for hydromorphology. Ecological Indicators, 2013, 32, 264-275.	6.3	37
13	Integrating and extending ecological river assessment: Concept and test with two restoration projects. Ecological Indicators, 2017, 72, 131-141.	6.3	35
14	Comparability of and Alternatives to Leaching Tests for the Assessment of the Emission of Inorganic Soil Contamination (11 pp). Journal of Soils and Sediments, 2006, 6, 102-112.	3.0	34
15	Impact of wastewater on the microbial diversity of periphyton and its tolerance to micropollutants in an engineered flow-through channel system. Water Research, 2021, 203, 117486.	11.3	31
16	Spatial relationships between land-use, habitat, water quality and lotic macroinvertebrates in two Swiss catchments. Aquatic Sciences, 2014, 76, 375-392.	1.5	26
17	Zn and Pb release of sphalerite (ZnS)-bearing mine waste tailings. Journal of Soils and Sediments, 2008, 8, 433-441.	3.0	24
18	How stressor specific are trait-based ecological indices for ecosystem management?. Science of the Total Environment, 2015, 505, 565-572.	8.0	23

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19	Bridging the gap between theoretical ecology and real ecosystems: modeling invertebrate community composition in streams. Ecology, 2013, 94, 368-379.	3.2	21
20	Modeling Macroinvertebrate Community Dynamics in Stream Mesocosms Contaminated with a Pesticide. Environmental Science & Technology, 2016, 50, 3165-3173.	10.0	21
21	The importance of biotic interactions for the prediction of macroinvertebrate communities under multiple stressors. Functional Ecology, 2016, 30, 974-984.	3.6	20
22	Identifying non-additive multi-attribute value functions based on uncertain indifference statements. Omega, 2019, 85, 49-67.	5.9	18
23	From individual to joint species distribution models: A comparison of model complexity and predictive performance. Journal of Biogeography, 2019, 46, 2260-2274.	3.0	18
24	Can integrative catchment management mitigate future water quality issues caused by climate change and socio-economic development?. Hydrology and Earth System Sciences, 2017, 21, 1593-1609.	4.9	14
25	Integrating uncertain prior knowledge regarding ecological preferences into multi-species distribution models: Effects of model complexity on predictive performance. Ecological Modelling, 2020, 420, 108956.	2.5	14
26	A mechanistic model of benthos community dynamics in the River Sihl, Switzerland. Freshwater Biology, 2008, 53, 1372-1392.	2.4	13
27	Multi-criteria decision analysis for integrated water quality assessment and management support. Water Research X, 2018, 1, 100010.	6.1	13
28	A generic framework for deriving process stoichiometry in environmental models. Environmental Modelling and Software, 2010, 25, 1241-1251.	4.5	12
29	Recent trends in stream macroinvertebrates: warm-adapted and pesticide-tolerant taxa increase in richness. Biology Letters, 2022, 18, 20210513.	2.3	11
30	The effect of ambiguous prior knowledge on Bayesian model parameter inference and prediction. Environmental Modelling and Software, 2014, 62, 300-315.	4.5	10
31	Towards an integrated surface water quality assessment: Aggregation over multiple pollutants and time. Water Research, 2020, 186, 116330.	11.3	9
32	Effects of site selection and taxonomic resolution on the inference of stream invertebrate responses to environmental conditions. Freshwater Science, 2020, 39, 415-432.	1.8	7
33	Mechanistic modelling for predicting the effects of restoration, invasion and pollution on benthic macroinvertebrate communities in rivers. Freshwater Biology, 2017, 62, 1083-1093.	2.4	5
34	Methods of metal release assessment in soil water at anoxic sites. Clean - Soil, Air, Water, 2006, 34, 579-586.	0.6	4
35	Integrating ecological theories and traits in processâ€based modeling of macroinvertebrate community dynamics in streams. Ecological Applications, 2017, 27, 1365-1377.	3.8	4
36	Confronting existing knowledge on ecological preferences of stream macroinvertebrates with independent biomonitoring data using a Bayesian multi-species distribution model. Freshwater Science, 2021, 40, 202-220.	1.8	3

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37	Development of a mechanistic model (ERIMO-I) for analyzing the temporal dynamics of the benthic community of an intermittent Mediterranean stream. Ecological Modelling, 2011, 222, 91-104.	2.5	2
38	Bridging mechanistic conceptual models and statistical species distribution models of riverine fish. Ecological Modelling, 2021, 457, 109680.	2.5	2