

Martin Volk

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

4,642
citations

87888

38
h-index

110387

64
g-index

104
all docs

104
docs citations

104
times ranked

5593
citing authors

#	ARTICLE	IF	CITATIONS
1	The clam and the dam: A Bayesian belief network approach to environmental flow assessment in a data scarce region. <i>Science of the Total Environment</i> , 2022, 810, 151315.	8.0	3
2	A Bayesian Belief Network learning tool integrates multi-scale effects of riparian buffers on stream invertebrates. <i>Science of the Total Environment</i> , 2022, 810, 152146.	8.0	9
3	A global agenda for advancing freshwater biodiversity research. <i>Ecology Letters</i> , 2022, 25, 255-263.	6.4	95
4	Response of endangered bird species to land-use changes in an agricultural landscape in Germany. <i>Regional Environmental Change</i> , 2022, 22, 1.	2.9	8
5	Using crowdsourced images to study selected cultural ecosystem services and their relationships with species richness and carbon sequestration. <i>Ecosystem Services</i> , 2022, 54, 101411.	5.4	10
6	Riparian reforestation on the landscape scale: Navigating trade-offs among agricultural production, ecosystem functioning and biodiversity. <i>Journal of Applied Ecology</i> , 2022, 59, 1456-1471.	4.0	7
7	Remote Sensing of Geomorphodiversity Linked to Biodiversityâ€™Part III: Traits, Processes and Remote Sensing Characteristics. <i>Remote Sensing</i> , 2022, 14, 2279.	4.0	13
8	Combining biophysical optimization with economic preference analysis for agricultural land-use allocation. <i>Ecology and Society</i> , 2021, 26, .	2.3	8
9	Applying Optimization to Support Adaptive Water Management of Rivers. <i>Water (Switzerland)</i> , 2021, 13, 1281.	2.7	4
10	Considering scale within optimization procedures for water management decisions: Balancing environmental flows and human needs. <i>Environmental Modelling and Software</i> , 2021, 139, 104991.	4.5	12
11	Assessment of ecological function indicators related to nitrate under multiple human stressors in a large watershed. <i>Ecological Indicators</i> , 2020, 111, 106016.	6.3	13
12	Bringing the sharing-sparing debate down to the groundâ€™Lessons learnt for participatory scenario development. <i>Land Use Policy</i> , 2020, 91, 104262.	5.6	12
13	Linking the Remote Sensing of Geodiversity and Traits Relevant to Biodiversityâ€™Part II: Geomorphology, Terrain and Surfaces. <i>Remote Sensing</i> , 2020, 12, 3690.	4.0	20
14	Small Patches of Riparian Woody Vegetation Enhance Biodiversity of Invertebrates. <i>Water (Switzerland)</i> , 2020, 12, 3070.	2.7	23
15	Modeling Water Quality in Watersheds: From Here to the Next Generation. <i>Water Resources Research</i> , 2020, 56, e2020WR027721.	4.2	54
16	Improving the Applicability of the SWAT Model to Simulate Flow and Nitrate Dynamics in a Flat Data-Scarce Agricultural Region in the Mediterranean. <i>Water (Switzerland)</i> , 2020, 12, 3479.	2.7	16
17	Using Stakeholder Preferences to Identify Optimal Land Use Configurations. <i>Frontiers in Water</i> , 2020, 2, .	2.3	10
18	Including stakeholdersâ€™ perspectives on ecosystem services in multifunctionality assessments. <i>Ecosystems and People</i> , 2020, 16, 354-368.	3.2	23

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19	Using the Soil and Water Assessment Tool to Simulate the Pesticide Dynamics in the Data Scarce Guayas River Basin, Ecuador. <i>Water (Switzerland)</i> , 2020, 12, 696.	2.7	16
20	Assessing the Benefits of Forested Riparian Zones: A Qualitative Index of Riparian Integrity Is Positively Associated with Ecological Status in European Streams. <i>Water (Switzerland)</i> , 2020, 12, 1178.	2.7	49
21	Plant functional traits shape multiple ecosystem services, their trade-offs and synergies in grasslands. <i>Journal of Applied Ecology</i> , 2020, 57, 1535-1550.	4.0	56
22	Assessment of Socio-Economic and Climate Change Impacts on Water Resources in Four European Lagoon Catchments. <i>Environmental Management</i> , 2019, 64, 701-720.	2.7	11
23	Constraints in multi-objective optimization of land use allocation – Repair or penalize?. <i>Environmental Modelling and Software</i> , 2019, 118, 241-251.	4.5	54
24	Developing stakeholder-driven scenarios on land sharing and land sparing – Insights from five European case studies. <i>Journal of Environmental Management</i> , 2019, 241, 488-500.	7.8	42
25	Multifunctionality assessments – More than assessing multiple ecosystem functions and services? A quantitative literature review. <i>Ecological Indicators</i> , 2019, 103, 226-235.	6.3	89
26	Integrated nutrient transport modelling with respect to the implementation of the European WFD: The Weiße Elster Case Study, Germany. <i>Water S A</i> , 2019, 34, 490.	0.4	27
27	Blind spots in ecosystem services research and challenges for implementation. <i>Regional Environmental Change</i> , 2019, 19, 2151-2172.	2.9	77
28	Analysing spatio-temporal process and parameter dynamics in models to characterise contrasting catchments. <i>Journal of Hydrology</i> , 2019, 570, 863-874.	5.4	15
29	Evolutionary algorithms for species distribution modelling: A review in the context of machine learning. <i>Ecological Modelling</i> , 2019, 392, 179-195.	2.5	72
30	A review of multi-criteria optimization techniques for agricultural land use allocation. <i>Environmental Modelling and Software</i> , 2018, 105, 79-93.	4.5	108
31	Ecoservices and multifunctional landscapes: Balancing the benefits of integrated ES-based water resources, agricultural and forestry production systems. <i>Ecohydrology and Hydrobiology</i> , 2018, 18, 262-268.	2.3	7
32	Modelling Tools to Analyze and Assess the Ecological Impact of Hydropower Dams. <i>Water (Switzerland)</i> , 2018, 10, 259.	2.7	30
33	The Art of Scientific Performance. <i>Trends in Ecology and Evolution</i> , 2018, 33, 805-809.	8.7	7
34	TALE - Towards multifunctional agricultural landscapes in Europe: Assessing and governing synergies between biodiversity and ecosystem services. <i>Impact</i> , 2018, 2018, 39-41.	0.1	2
35	Expanding temporal resolution in landscape transformations: Insights from a landsat-based case study in Southern Chile. <i>Ecological Indicators</i> , 2017, 75, 132-144.	6.3	13
36	Introduction to SWAT+, A Completely Restructured Version of the Soil and Water Assessment Tool. <i>Journal of the American Water Resources Association</i> , 2017, 53, 115-130.	2.4	205

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37	Input variable selection with a simple genetic algorithm for conceptual species distribution models: A case study of river pollution in Ecuador. <i>Environmental Modelling and Software</i> , 2017, 92, 269-316.	4.5	25
38	Towards systematic analyses of ecosystem service trade-offs and synergies: Main concepts, methods and the road ahead. <i>Ecosystem Services</i> , 2017, 28, 264-272.	5.4	306
39	Spatio-temporal change of ecosystem services as a key to understand natural resource utilization in Southern Chile. <i>Regional Environmental Change</i> , 2017, 17, 2477-2493.	2.9	19
40	Trade-offs between plant species richness and carbon storage in the context of afforestation “Examples from afforestation scenarios in the Mulde Basin, Germany. <i>Ecological Indicators</i> , 2017, 73, 139-155.	6.3	33
41	Integrative assessment of climate change for fast-growing urban areas: Measurement and recommendations for future research. <i>PLoS ONE</i> , 2017, 12, e0189451.	2.5	28
42	On the Nexus of the Spatial Dynamics of Global Urbanization and the Age of the City. <i>PLoS ONE</i> , 2016, 11, e0160471.	2.5	75
43	On characterizing the temporal dominance patterns of model parameters and processes. <i>Hydrological Processes</i> , 2016, 30, 2255-2270.	2.6	43
44	Delineating floodplain and upland areas for hydrologic models: a comparison of methods. <i>Hydrological Processes</i> , 2016, 30, 4367-4383.	2.6	17
45	Development and applications of the SWAT model to support sustainable river basin management on different scales. <i>Sustainability of Water Quality and Ecology</i> , 2016, 8, 1-3.	2.0	7
46	SWAT: Agricultural water and nonpoint source pollution management at a watershed scale. <i>Agricultural Water Management</i> , 2016, 175, 1-3.	5.6	29
47	Improved simulation of river water and groundwater exchange in an alluvial plain using the SWAT model. <i>Hydrological Processes</i> , 2016, 30, 187-202.	2.6	53
48	Water Quality Is a Poor Predictor of Recreational Hotspots in England. <i>PLoS ONE</i> , 2016, 11, e0166950.	2.5	17
49	Development of a grid-based version of the SWAT landscape model. <i>Hydrological Processes</i> , 2015, 29, 900-914.	2.6	68
50	Large-scale identification of hot spots for soil carbon demand under climate change and bioenergy production. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 199-208.	1.9	11
51	Effective map scales for soil transport processes and related process domains “ Statistical and spatial characterization of their scale-specific inaccuracies. <i>Geoderma</i> , 2015, 247-248, 151-160.	5.1	17
52	Separating the effects of changes in land cover and climate: a hydro-meteorological analysis of the past 60 yr in Saxony, Germany. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 389-405.	4.9	43
53	Simulating Landscape Sediment Transport Capacity by Using a Modified SWAT Model. <i>Journal of Environmental Quality</i> , 2014, 43, 55-66.	2.0	60
54	Simulating Land Management Options to Reduce Nitrate Pollution in an Agricultural Watershed Dominated by an Alluvial Aquifer. <i>Journal of Environmental Quality</i> , 2014, 43, 67-74.	2.0	46

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55	SWAT plant growth modification for improved modeling of perennial vegetation in the tropics. <i>Ecological Modelling</i> , 2013, 269, 98-112.	2.5	104
56	The impact of Best Management Practices on simulated streamflow and sediment load in a Central Brazilian catchment. <i>Journal of Environmental Management</i> , 2013, 127, S24-S36.	7.8	101
57	Optimization-based trade-off analysis of biodiesel crop production for managing an agricultural catchment. <i>Environmental Modelling and Software</i> , 2013, 48, 98-112.	4.5	130
58	Modelling ecosystem services – Challenges and promising future directions. <i>Sustainability of Water Quality and Ecology</i> , 2013, 1-2, 3-9.	2.0	25
59	A new multiscale approach for monitoring vegetation using remote sensing-based indicators in laboratory, field, and landscape. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 1215-1235.	2.7	44
60	Identifying trade-offs between ecosystem services, land use, and biodiversity: a plea for combining scenario analysis and optimization on different spatial scales. <i>Current Opinion in Environmental Sustainability</i> , 2013, 5, 458-463.	6.3	194
61	Land use change in a 200-year period and its effect on blue and green water flow in two Slovenian Mediterranean catchments – lessons for the future. <i>Hydrological Processes</i> , 2013, 27, 3964-3980.	2.6	46
62	Application of a model-based rainfall-runoff database as efficient tool for flood risk management. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3159-3169.	4.9	34
63	Assessing the ecosystem services supplied by freshwater flows in Mediterranean agroecosystems. <i>Agricultural Water Management</i> , 2012, 105, 21-31.	5.6	72
64	Mapping water quality-related ecosystem services: concepts and applications for nitrogen retention and pesticide risk reduction. <i>International Journal of Biodiversity Science, Ecosystem Services & Management</i> , 2012, 8, 35-49.	2.9	21
65	Using precipitation data ensemble for uncertainty analysis in SWAT streamflow simulation. <i>Journal of Hydrology</i> , 2012, 414-415, 413-424.	5.4	154
66	Quantifying the proportion of tile-drained land in large river basins. <i>Physics and Chemistry of the Earth</i> , 2011, 36, 591-598.	2.9	1
67	Environmental decision support systems (EDSS) development – Challenges and best practices. <i>Environmental Modelling and Software</i> , 2011, 26, 1389-1402.	4.5	251
68	Monitoring strategies and scale-appropriate hydrologic and biogeochemical modelling for natural resource management: Conclusions and recommendations from a session held at the iEMSs 2008. <i>Environmental Modelling and Software</i> , 2011, 26, 538-542.	4.5	19
69	How Can We Make Progress with Decision Support Systems in Landscape and River Basin Management? Lessons Learned from a Comparative Analysis of Four Different Decision Support Systems. <i>Environmental Management</i> , 2010, 46, 834-849.	2.7	82
70	Pimp Your Landscape: A Tool for Qualitative Evaluation of the Effects of Regional Planning Measures on Ecosystem Services. <i>Environmental Management</i> , 2010, 46, 953-968.	2.7	42
71	Squaring the Circle? Combining Models, Indicators, Experts and End-Users in Integrated Land-Use Management Support Tools. <i>Environmental Management</i> , 2010, 46, 829-833.	2.7	27
72	Influence of different nitrate-N monitoring strategies on load estimation as a base for model calibration and evaluation. <i>Environmental Monitoring and Assessment</i> , 2010, 171, 513-527.	2.7	61

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73	Simulation of a Low-Gradient Coastal Plain Watershed Using the SWAT Landscape Model. Transactions of the ASABE, 2010, 53, 1445-1456.	1.1	41
74	Assessment of Different Representations of Spatial Variability on SWAT Model Performance. Transactions of the ASABE, 2010, 53, 1433-1443.	1.1	136
75	Changes in land management and nitrogen balance at different scales in the Weiße Elster river basin, Germany. Desalination and Water Treatment, 2010, 19, 219-225.	1.0	0
76	A pragmatic approach for soil erosion risk assessment within policy hierarchies. Land Use Policy, 2010, 27, 997-1009.	5.6	52
77	Challenges of simulating complex environmental systems at the landscape scale: A controversial dialogue between two cups of espresso. Ecological Modelling, 2009, 220, 3481-3489.	2.5	47
78	Towards the implementation of the European Water Framework Directive?. Land Use Policy, 2009, 26, 580-588.	5.6	149
79	Application of the Soil and Water Assessment Tool (SWAT) to predict the impact of alternative management practices on water quality and quantity. Agricultural Water Management, 2009, 96, 1207-1217.	5.6	198
80	Integrated ecological-economic modelling of water pollution abatement management options in the Upper Ems River Basin. Ecological Economics, 2008, 66, 66-76.	5.7	105
81	Placing soil-genesis and transport processes into a landscape context: A multiscale terrain-analysis approach. Journal of Plant Nutrition and Soil Science, 2008, 171, 419-430.	1.9	47
82	“Pimp your landscape” an interactive land-use planning support tool. WIT Transactions on the Built Environment, 2008, , .	0.0	3
83	Considering spatial distribution and functionality of forests in a modeling framework for river basin management. Forest Ecology and Management, 2007, 248, 17-25.	3.2	10
84	The comparison index: A tool for assessing the accuracy of image segmentation. International Journal of Applied Earth Observation and Geoinformation, 2007, 9, 311-321.	2.8	174
85	A SDSS-based Ecological-economic Modelling Approach for Integrated River Basin Management on Different Scale Levels “ The Project FLUMAGIS. Water Resources Management, 2007, 21, 2049-2061.	3.9	28
86	Surveying Ground Water Level Using Remote Sensing: An Example over the Seco and Hondo Creek Watershed in Texas. Ground Water Monitoring and Remediation, 2006, 26, 94-102.	0.8	3
87	Meso-scale landscape analysis based on landscape balance investigations: problems and hierarchical approaches for their resolution. Ecological Modelling, 2003, 168, 251-265.	2.5	38
88	Title is missing!. Landscape Ecology, 2002, 17, 1-12.	4.2	21
89	Scales and spatio-temporal dimensions in landscape research. , 2001, , 137-162.		3
90	Landscape balance. , 2001, , 163-202.		6