Sven Lautenbach

List of Publications by Year
in descending order

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65 papers	11,194 citations	145106 33 h-index	134545 62 g-index

67 all docs	67 docs citations	67 times ranked	20271 citing authors

#	Article	IF	Citations
1	Using crowdsourced images to study selected cultural ecosystem services and their relationships with species richness and carbon sequestration. Ecosystem Services, 2022, 54, 101411.	2.3	10
2	Improving OpenStreetMap missing building detection using fewâ€shot transfer learning in subâ€Saharan Africa. Transactions in GIS, 2022, 26, 3125-3146.	1.0	15
3	Greenwashing in the US metal industry? A novel approach combining SO2 concentrations from satellite data, a plant-level firm database and web text mining. Science of the Total Environment, 2022, 835, 155512.	3.9	2
4	The evolution of humanitarian mapping within the OpenStreetMap community. Scientific Reports, 2021, 11, 3037.	1.6	61
5	The Impact of Community Happenings in OpenStreetMapâ€"Establishing a Framework for Online Community Member Activity Analyses. ISPRS International Journal of Geo-Information, 2021, 10, 164.	1.4	10
6	Mapping Public Urban Green Spaces Based on OpenStreetMap and Sentinel-2 Imagery Using Belief Functions. ISPRS International Journal of Geo-Information, 2021, 10, 251.	1.4	30
7	Studying the impact of built environments on human mental health in everyday life: methodological developments, state-of-the-art and technological frontiers. Current Opinion in Psychology, 2020, 32, 158-164.	2.5	32
8	The difficulty of steering settlement development to reduce the loss of ecosystem services: an exploration of different development scenarios in Switzerland using spatially explicit land-use models. Journal of Environmental Planning and Management, 2020, 63, 1037-1055.	2.4	4
9	Mapping physical access to health care for older adults in sub-Saharan Africa and implications for the COVID-19 response: a cross-sectional analysis. The Lancet Healthy Longevity, 2020, 1, e32-e42.	2.0	22
10	Farmland abandonment in Rio de Janeiro: Underlying and contributory causes of an announced development. Land Use Policy, 2020, 95, 104633.	2.5	11
11	Ambulatory assessment for physical activity research: State of the science, best practices and future directions. Psychology of Sport and Exercise, 2020, 50, 101742.	1.1	73
12	Intuitive Global Insight Into COVIDâ€19 Clinical Research Activitiesâ€"The â€œCOVIDâ€19 Map of Hopeâ€• Journal of Clinical Pharmacology, 2020, 60, 826-827.	1.0	3
13	Spatial Patterns of Farmland Abandonment in Rio de Janeiro State. Springer Series on Environmental Management, 2019, , 69-85.	0.3	2
14	Neural correlates of individual differences in affective benefit of real-life urban green space exposure. Nature Neuroscience, 2019, 22, 1389-1393.	7.1	125
15	The relevance of using in situ carbon and nitrogen data and satellite images to assess aboveground carbon and nitrogen stocks for supporting national REDDâ€‰+â€‰programmes in Africa. Carbon Balance and Management, 2019, 14, 12.	1.4	1
16	Mapping Human Settlements with Higher Accuracy and Less Volunteer Efforts by Combining Crowdsourcing and Deep Learning. Remote Sensing, 2019, 11, 1799.	1.8	36
17	Breaking the ecosystem services glass ceiling: realising impact. Regional Environmental Change, 2019, 19, 2261-2274.	1.4	5
18	Constraints in multi-objective optimization of land use allocation â€“ Repair or penalize?. Environmental Modelling and Software, 2019, 118, 241-251.	1.9	54

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19	Blind spots in ecosystem services research and challenges for implementation. Regional Environmental Change, 2019, 19, 2151-2172.	1.4	77
20	The impact of conservation farming practices on Mediterranean agro-ecosystem services provisioningâ€"a meta-analysis. Regional Environmental Change, 2019, 19, 2187-2202.	1.4	49
21	Mapping cultural ecosystem services 2.0 â€" Potential and shortcomings from unlabeled crowd sourced images. Ecological Indicators, 2019, 96, 505-515.	2.6	77
22	Provisioning Ecosystem Services at Risk: Pollination Benefits and Pollination Dependency of Cropping Systems at the Global Scale. , 2019, , 97-104.		1
23	Mapping Land System Archetypes to Understand Drivers of Ecosystem Service Risks. , 2019, , 69-75.		1
24	Improving the performance of genetic algorithms for land-use allocation problems. International Journal of Geographical Information Science, 2018, 32, 907-930.	2.2	36
25	Application of the ecosystem service concept for climate protection in Germany. Ecosystem Services, 2018, 29, 294-305.	2.3	8
26	Using multi-objective optimization to secure fertile soils across municipalities. Applied Geography, 2018, 97, 75-84.	1.7	16
27	Expanding temporal resolution in landscape transformations: Insights from a landsat-based case study in Southern Chile. Ecological Indicators, 2017, 75, 132-144.	2.6	13
28	Pathways to bridge the biophysical realism gap in ecosystem services mapping approaches. Ecological Indicators, 2017, 74, 241-260.	2.6	110
29	Peri-urban land use pattern and its relation to land use planning in Ghana, West Africa. Landscape and Urban Planning, 2017, 165, 280-294.	3.4	108
30	Spatial variations and determinants of infant and under-five mortality in Bangladesh. Health and Place, 2017, 47, 156-164.	1.5	19
31	Reducing the loss of agricultural productivity due to compact urban development in municipalities of Switzerland. Computers, Environment and Urban Systems, 2017, 65, 162-177.	3.3	21
32	Short versus long-term urban planning using multi-objective optimization. , 2017, , .		0
33	Spatio-temporal change of ecosystem services as a key to understand natural resource utilization in Southern Chile. Regional Environmental Change, 2017, 17, 2477-2493.	1.4	19
34	Trade-offs between plant species richness and carbon storage in the context of afforestation â€" Examples from afforestation scenarios in the Mulde Basin, Germany. Ecological Indicators, 2017, 73, 139-155.	2.6	33
35	A quantitative review of relationships between ecosystem services. Ecological Indicators, 2016, 66, 340-351.	2.6	253
36	Regional or global? The question of low-emission food sourcing addressed with spatial optimization modelling. Environmental Modelling and Software, 2016, 82, 128-141.	1.9	21

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37	Allometric models and aboveground biomass stocks of a West African Sudan Savannah watershed in Benin. Carbon Balance and Management, 2016, 11, 16.	1.4	18
38	What determines the use of urban green spaces in highly urbanized areas? â€“ Examples from two fast growing Asian cities. Urban Forestry and Urban Greening, 2016, 16, 150-159.	2.3	85
39	Landnutzungsmodellierung und Ã¶kologische Dienstleistungen. , 2016, , 1-21.		0
40	Place of Residence Moderates the Risk of Infant Death in Kenya: Evidence from the Most Recent Census 2009. PLoS ONE, 2015, 10, e0139545.	1.1	10
41	Trade-offs of biogas production: comparing crop rotations under different climate scenarios. , 2015, , .		0
42	Novel function of vitamin E in regulation of zebrafish (Danio rerio) brain lysophospholipids discovered using lipidomics. Journal of Lipid Research, 2015, 56, 1182-1190.	2.0	51
43	Quantifying and mapping ecosystem services: Demand and supply of pollination in the European Union. Ecological Indicators, 2014, 36, 131-141.	2.6	185
44	On the importance of non-linear relationships between landscape patterns and the sustainable provision of ecosystem services. Landscape Ecology, 2014, 29, 201-212.	1.9	65
45	Mapping global land system archetypes. Global Environmental Change, 2013, 23, 1637-1647.	3.6	160
46	Collinearity: a review of methods to deal with it and a simulation study evaluating their performance. Ecography, 2013, 36, 27-46.	2.1	6,250
47	Optimization-based trade-off analysis of biodiesel crop production for managing an agricultural catchment. Environmental Modelling and Software, 2013, 48, 98-112.	1.9	130
48	Identifying trade-offs between ecosystem services, land use, and biodiversity: a plea for combining scenario analysis and optimization on different spatial scales. Current Opinion in Environmental Sustainability, 2013, 5, 458-463.	3.1	194
49	Improvement of aquatic vegetation in urban waterways using protected artificial shallows. Ecological Engineering, 2012, 42, 160-167.	1.6	22
50	Form follows function? Proposing a blueprint for ecosystem service assessments based on reviews and case studies. Ecological Indicators, 2012, 21, 145-154.	2.6	155
51	Mental health in the slums of Dhaka - a geoepidemiological study. BMC Public Health, 2012, 12, 177.	1.2	68
52	Mapping water quality-related ecosystem services: concepts and applications for nitrogen retention and pesticide risk reduction. International Journal of Biodiversity Science, Ecosystem Services & Management, 2012, 8, 35-49.	2.9	21
53	Spatial and Temporal Trends of Global Pollination Benefit. PLoS ONE, 2012, 7, e35954.	1.1	275
54	Analysis of historic changes in regional ecosystem service provisioning using land use data. Ecological Indicators, 2011, 11, 676-687.	2.6	236

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55	Exploring indicators for quantifying surface urban heat islands of European cities with MODIS land surface temperatures. Remote Sensing of Environment, 2011, 115, 3175-3186.	4.6	338
56	A quantitative review of ecosystem service studies: approaches, shortcomings and the road ahead. Journal of Applied Ecology, 2011, 48, 630-636.	1.9	779
57	Environmental decision support systems (EDSS) development â€“ Challenges and best practices. Environmental Modelling and Software, 2011, 26, 1389-1402.	1.9	251
58	A spatial epidemiological analysis of self-rated mental health in the slums of Dhaka. International Journal of Health Geographics, 2011, 10, 36.	1.2	38
59	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. Environmental Management, 2010, 46, 834-849.	1.2	82
60	Reassessing Neotropical angiosperm distribution patterns based on monographic data: a geometric interpolation approach. Biodiversity and Conservation, 2010, 19, 1523-1546.	1.2	16
61	Modeling and simulating residential mobility in a shrinking city using an agent-based approach. Environmental Modelling and Software, 2010, 25, 1225-1240.	1.9	90
62	Scenario analysis and management options for sustainable river basin management: Application of the Elbe DSS. Environmental Modelling and Software, 2009, 24, 26-43.	1.9	62
63	COMPONENTS OF UNCERTAINTY IN SPECIES DISTRIBUTION ANALYSIS: A CASE STUDY OF THE GREAT GREY SHRIKE. Ecology, 2008, 89, 3371-3386.	1.5	178
64	Integration of MONERIS and GREAT-ER in the decision support system for the German Elbe river basin. Environmental Modelling and Software, 2007, 22, 239-247.	1.9	32
65	System analysis of water quality management for the Elbe river basin. Environmental Modelling and Software, 2006, 21, 1309-1318.	1.9	37