Benjamin Burkhard

List of Publications by Year
in descending order

125 papers	9,124 citations	100601 38 h-index	64407 83 g-index
132 all docs	132 docs citations	132 times ranked	8296 citing authors

#	Article	IF	Citations
1	A novel intelligence approach based active and ensemble learning for agricultural soil organic carbon prediction using multispectral and SAR data fusion. Science of the Total Environment, 2022, 804, 150187.	3.9	59
2	Linking ecosystem condition and ecosystem services: A methodological approach applied to European agroecosystems. Ecosystem Services, 2022, 53, 101387.	2.3	11
3	Classifying the Degree of Bark Beetle-Induced Damage on Fir (Abies mariesii) Forests, from UAV-Acquired RGB Images. Computation, 2022, 10, 63.	1.0	4
4	Economic valuation of wetland ecosystem services in northeastern part of Vietnam. Knowledge and Management of Aquatic Ecosystems, 2022, , 12.	0.5	1
5	Modeling water regulation ecosystem services: A review in the context of ecosystem accounting. Ecosystem Services, 2022, 56, 101458.	2.3	13
6	Analysis of UAV-Acquired Wetland Orthomosaics Using GIS, Computer Vision, Computational Topology and Deep Learning. Sensors, 2021, 21, 471.	2.1	20
7	Overdrilling increases the risk of screw perforation in locked plating of complex proximal humeral fractures â€“ A biomechanical cadaveric study. Journal of Biomechanics, 2021, 117, 110268.	0.9	4
8	A hierarchical framework for mapping pollination ecosystem service potential at the local scale. Ecological Modelling, 2021, 444, 109484.	1.2	14
9	The impact of soil erosion on soil-related ecosystem services: development and testing a scenario-based assessment approach. Environmental Monitoring and Assessment, 2021, 193, 274.	1.3	15
10	Ecosystem services and biodiversity of agricultural systems at the landscape scale. Environmental Monitoring and Assessment, 2021, 193, 275.	1.3	3
11	Participatory systematic mapping as a tool to identify gaps in ecosystem services research: insights from a Baltic Sea case study. Ecosystem Services, 2021, 48, 101237.	2.3	12
12	Towards an enhanced indication of provisioning ecosystem services in agro-ecosystems. Environmental Monitoring and Assessment, 2021, 193, 269.	1.3	16
13	Integrated methods and scenarios for assessment of sand dunes ecosystem services. Journal of Environmental Management, 2021, 289, 112485.	3.8	10
14	New Approach to Assess Multi-Scale Coastal Landscape Vulnerability to Erosion in Tropical Storms in Vietnam. Sustainability, 2021, 13, 1004.	1.6	5
15	Mapping and assessing ecosystems and their services: a comparative approach to ecosystem service supply in Suriname and French Guiana. Ecosystems and People, 2021, 17, 148-164.	1.3	10
16	Evidence on the impact of Baltic Sea ecosystems on human health and well-being: a systematic map. Environmental Evidence, 2021, 10, 30.	1.1	4
17	A Convolutional Neural Network for Coastal Classification Based on ALOS and NOAA Satellite Data. IEEE Access, 2020, 8, 11824-11839.	2.6	22
18	Ecosystem service potential, flow, demand and their spatial associations: a comparison of the nutrient retention service between a human- and a nature-dominated watershed. Science of the Total Environment, 2020, 748, 141341.	3.9	25

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19	Refining the Tiered Approach for Mapping and Assessing Ecosystem Services at the Local Scale: A Case Study in a Rural Landscape in Northern Germany. Land, 2020, 9, 348.	1.2	7
20	Coastal Wetland Classification with Deep U-Net Convolutional Networks and Sentinel-2 Imagery: A Case Study at the Tien Yen Estuary of Vietnam. Remote Sensing, 2020, 12, 3270.	1.8	30
21	Potential, flow and demand of rice provisioning ecosystem services â€“ Case study in Sapa district, Vietnam. Ecological Indicators, 2020, 118, 106731.	2.6	6
22	U-Net Convolutional Networks for Mining Land Cover Classification Based on High-Resolution UAV Imagery. IEEE Access, 2020, 8, 186257-186273.	2.6	48
23	New approach of water quantity vulnerability assessment using satellite images and GIS-based model: An application to a case study in Vietnam. Science of the Total Environment, 2020, 737, 139784.	3.9	25
24	Radar-Based Precipitation Climatology in Germanyâ€”Developments, Uncertainties and Potentials. Atmosphere, 2020, 11, 217.	1.0	22
25	Quantification and mapping of the nutrient regulation ecosystem service demand on a local scale. Ecosystems and People, 2020, 16, 114-134.	1.3	8
26	GIS and land cover-based assessment of ecosystem services in the North Karelia Biosphere Reserve, Finland. Fennia, 2020, 197, 249-267.	0.2	6
27	Modeling effects of abiotic and anthropogenic factors to rice production - A case study in Sapa district, Lao Cai province, Vietnam. Vietnam Journal of Earth Sciences, 2020, 42, 41-54.	1.0	2
28	Assessment of the relationships between agroecosystem condition and the ecosystem service soil erosion regulation in Northern Germany. PLoS ONE, 2020, 15, e0234288.	1.1	10
29	Assessment of shoreline changes for setback zone establishment from Son Tra (Da Nang city) to Cua Dai (Hoi An city), Vietnam. Vietnam Journal of Earth Sciences, 2020, 42, .	1.0	1
30	Title is missing!. , 2020, 15, e0234288.		0
31	Title is missing!. , 2020, 15, e0234288.		0
32	Title is missing!. , 2020, 15, e0234288.		0
33	Title is missing!. , 2020, 15, e0234288.		0
34	A Rainfall Data Intercomparison Dataset of RADKLIM, RADOLAN, and Rain Gauge Data for Germany. Data, 2019, 4, 118.	1.2	14
35	Application of a hybrid neural-fuzzy inference system for mapping crop suitability areas and predicting rice yields. Environmental Modelling and Software, 2019, 114, 166-180.	1.9	29
36	Rice Ecosystem Services in South-East Asia: The LEGATO Project, Its Approaches and Main Results with a Focus on Biocontrol Services. , 2019, , 373-382.		2

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37	Analysis of trends in mapping and assessment of ecosystem condition in Europe. Ecosystems and People, 2019, 15, 156-172.	1.3	32
38	Bayesian Belief Network-based assessment of nutrient regulating ecosystem services in Northern Germany. PLoS ONE, 2019, 14, e0216053.	1.1	22
39	Ecosystem service value assessment of a natural reserve region for strengthening protection and conservation. Journal of Environmental Management, 2019, 244, 208-227.	3.8	134
40	Key knowledge gaps to achieve global sustainability goals. Nature Sustainability, 2019, 2, 1115-1121.	11.5	193
41	Quantifying and mapping land use changes and regulating ecosystem service potentials in a data-scarce peri-urban region in Kenya. Ecosystems and People, 2019, 15, 11-32.	1.3	22
42	A Bayesian Belief Network â€“ Based approach to link ecosystem functions with rice provisioning ecosystem services. Ecological Indicators, 2019, 100, 30-44.	2.6	43
43	Soil erosion by water in Northern Germany: long-term monitoring results from Lower Saxony. Catena, 2018, 165, 299-309.	2.2	37
44	The LEGATO cross-disciplinary integrated ecosystem service research framework: an example of integrating research results from the analysis of global change impacts and the social, cultural and economic system dynamics of irrigated rice production. Paddy and Water Environment, 2018, 16, 287-319.	1.0	11
45	The next generation of site-based long-term ecological monitoring: Linking essential biodiversity variables and ecosystem integrity. Science of the Total Environment, 2018, 613-614, 1376-1384.	3.9	143
46	Rice ecosystem services in South-east Asia. Paddy and Water Environment, 2018, 16, 211-224.	1.0	20
47	Modelling and mapping natural hazard regulating ecosystem services in Sapa, Lao Cai province, Vietnam. Paddy and Water Environment, 2018, 16, 767-781.	1.0	18
48	Assessment and valuation of recreational ecosystem services of landscapes. Ecosystem Services, 2018, 31, 289-295.	2.3	102
49	â€œThings are different nowâ€: Farmer perceptions of cultural ecosystem services of traditional rice landscapes in Vietnam and the Philippines. Ecosystem Services, 2017, 25, 153-166.	2.3	50
50	Use of ecosystem information derived from forest thematic maps for spatial analysis of ecosystem services in northwestern Spain. Landscape and Ecological Engineering, 2017, 13, 45-57.	0.7	13
51	Towards a National Ecosystem Assessment in Germany: A Plea for a Comprehensive Approach. Gaia, 2017, 26, 27-33.	0.3	8
52	Resilience and adaptability of rice terrace social-ecological systems: a case study of a local community’s perception in Banaue, Philippines. Ecology and Society, 2016, 21, .	1.0	35
53	Agro(Eco)System Servicesâ€”Supply and Demand from Fields to Society. Land, 2016, 5, 9.	1.2	3
54	A review of studies on ecosystem services in Africa. International Journal of Sustainable Built Environment, 2016, 5, 225-245.	3.2	106

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55	Towards a national set of ecosystem service indicators: Insights from Germany. Ecological Indicators, 2016, 61, 38-48.	2.6	72
56	Should the ecosystem services concept be used in European Commission impact assessment?. Ecological Indicators, 2016, 61, 6-17.	2.6	21
57	Mapping Ecosystem Services. , 2016, , 188-204.		6
58	Agricultural landscapes and ecosystem services in South-East Asiaâ€"the LEGATO-Project. Basic and Applied Ecology, 2015, 16, 661-664.	1.2	46
59	Landscape×3s capacities to supply ecosystem services in Bangladesh: A mapping assessment for Lawachara National Park. Ecosystem Services, 2015, 12, 128-135.	2.3	76
60	Participatory assessment and mapping of ecosystem services in a data-poor region: Case study of community-managed forests in central Nepal. Ecosystem Services, 2015, 13, 81-92.	2.3	122
61	Land cover-based ecosystem service assessment of irrigated rice cropping systems in southeast Asiaâ€"An explorative study. Ecosystem Services, 2015, 14, 76-87.	2.3	79
62	Editorial: Best practices for mapping ecosystem services. Ecosystem Services, 2015, 13, 1-5.	2.3	43
63	Quantifying, Modelling and Mapping Ecosystem Services in Watersheds. , 2015, , 133-149.		8
64	Ecosystem services: building informed policies to orient landscape dynamics. International Journal of Biodiversity Science, Ecosystem Services & Management, 2015, 11, 185-189.	2.9	13
65	A visualization and data-sharing tool for ecosystem service maps: Lessons learnt, challenges and the way forward. Ecosystem Services, 2015, 13, 134-140.	2.3	35
66	â€˜The Matrix Reloadedâ€™: A review of expert knowledge use for mapping ecosystem services. Ecological Modelling, 2015, 295, 21-30.	1.2	243
67	Assessment of ecosystem integrity and service gradients across Europe using the LTER Europe network. Ecological Modelling, 2015, 295, 75-87.	1.2	88
68	Uncertainties in Ecosystem Service Maps: A Comparison on the European Scale. PLoS ONE, 2014, 9, e109643.	1.1	149
69	Engaging Local Knowledge in Biodiversity Research: Experiences from Large Inter- and Transdisciplinary Projects. Interdisciplinary Science Reviews, 2014, 39, 323-341.	1.0	29
70	Socioeconomic influences on biodiversity, ecosystem services and human well-being: A quantitative application of the DPSIR model in Jiangsu, China. Science of the Total Environment, 2014, 490, 1012-1028.	3.9	89
71	Quantification and Mapping of Flood Regulating Ecosystem Services in Different Watersheds â€“ Case Studies in Bulgaria and Arizona, USA. Lecture Notes in Geoinformation and Cartography, 2014, , 237-255.	0.5	8
72	Mapping provisioning ecosystem services at the local scale using data of varying spatial and temporal resolution. Ecosystem Services, 2013, 4, 47-59.	2.3	127

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73	Assessing Agricultural Sustainable Development Based on the DPSIR Approach: Case Study in Jiangsu, China. Journal of Integrative Agriculture, 2013, 12, 1292-1299.	1.7	35
74	Twenty volumes of ecological indicators â€“ An accounting short review. Ecological Indicators, 2013, 28, 4-9.	2.6	42
75	Interactions of ecosystem properties, ecosystem integrity and ecosystem service indicatorsâ€”A theoretical matrix exercise. Ecological Indicators, 2013, 28, 54-78.	2.6	325
76	A blueprint for mapping and modelling ecosystem services. Ecosystem Services, 2013, 4, 4-14.	2.3	565
77	Uncertainties in landscape analysis and ecosystem service assessment. Journal of Environmental Management, 2013, 127, S117-S131.	3.8	211
78	The Promise of the Ecosystem Services Concept for Planning and Decision-Making. Gaia, 2013, 22, 232-236.	0.3	60
79	Mapping tsunami impacts on land cover and related ecosystem service supply in Phang Nga, Thailand. Natural Hazards and Earth System Sciences, 2013, 13, 3095-3111.	1.5	56
80	The use of detailed biotope data for linking biodiversity with ecosystem services in Finland. International Journal of Biodiversity Science, Ecosystem Services & Management, 2012, 8, 169-185.	2.9	44
81	Quantifying and mapping ecosystem services. International Journal of Biodiversity Science, Ecosystem Services & Management, 2012, 8, 1-4.	2.9	61
82	The indicator side of ecosystem services. Ecosystem Services, 2012, 1, 26-30.	2.3	238
83	Flood regulating ecosystem servicesâ€”Mapping supply and demand, in the Etropole municipality, Bulgaria. Ecological Indicators, 2012, 21, 67-79.	2.6	278
84	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
85	Solutions for sustaining natural capital and ecosystem services. Ecological Indicators, 2012, 21, 1-6.	2.6	180
86	Establishing the Resilience of a Coastal-marine Social-ecological System to the Installation of Offshore Wind Farms. Ecology and Society, 2012, 17, .	1.0	23
87	Mapping ecosystem service supply, demand and budgets. Ecological Indicators, 2012, 21, 17-29.	2.6	1,545
88	Offshore wind farming on Germanyâ€™s North Sea coast: tracing regime shifts across scales. , 2012, , 185-202.		2
89	Conceptualizing the link between marine ecosystem services and human well-being: the case of offshore wind farming. International Journal of Biodiversity Science, Ecosystem Services & Management, 2011, 7, 190-203.	2.9	46
90	Ecosystem based modeling and indication of ecological integrity in the German North Seaâ€”Case study offshore wind parks. Ecological Indicators, 2011, 11, 168-174.	2.6	49

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91	Adapting the adaptive cycle: Hypotheses on the development of ecosystem properties and services. Ecological Modelling, 2011, 222, 2878-2890.	1.2	72
92	Cultural ecosystem services in the context of offshore wind farming: A case study from the west coast of Schleswig-Holstein. Ecological Complexity, 2010, 7, 349-358.	1.4	180
93	Ecosystem servicesâ€“A tool for sustainable management of humanâ€“environment systems. Case study Finnish Forest Lapland. Ecological Complexity, 2010, 7, 410-420.	1.4	142
94	Ecosystem Indicators for the Integrated Management of Landscape Health and Integrity. Applied Ecology and Environmental Management, 2010, , 391-424.	0.1	3
95	Resilience, Integrity and Ecosystem Dynamics: Bridging Ecosystem Theory and Management. Lecture Notes in Earth Sciences, 2009, , 221-242.	0.5	15
96	Integrated Assessment of Coastal and Marine Changes Using the Example of Offshore Wind Farms: the Coastal Futures Approach. Gaia, 2009, 18, 229-238.	0.3	14
97	Ecological risk as a tool for evaluating the effects of offshore wind farm construction in the North Sea. Regional Environmental Change, 2008, 8, 31-43.	1.4	17
98	Indicating human-environmental system properties: Case study northern Fenno-Scandinavian reindeer herding. Ecological Indicators, 2008, 8, 828-840.	2.6	22
99	An ecosystem based framework to link landscape structures, functions and services. , 2007, , 37-63.		24
100	Exploring the Future of Seas and Coasts: Scenarios within the Joint Research Projectâ€˜Zukunft KÃ¼steâ€“ Coastal Futuresâ€™. , 0, , 207-218.		0
101	Landscapes' capacities to provide ecosystem services - A concept for land-cover based assessments. Landscape Online, 0, 15, 1-22.	0.0	592
102	Ecosystem service potentials, flows and demands-concepts for spatial localisation, indication and quantification. Landscape Online, 0, 34, 1-32.	0.0	506
103	Modelling flood regulation ecosystem services dynamics based on climate and land use information. Landscape Online, 0, 88, 16.	0.0	4
104	The use of 'ecological risk' for assessing effects of human activities: An example including eutrophication and offshore wind farm construction in the north sea. Landscape Online, 0, 5, 1-20.	0.0	6
105	Agrosystem services: An additional terminology to better understand ecosystem services delivered by agriculture. Landscape Online, 0, 49, 1-15.	0.0	20
106	Contributing to the cultural ecosystem services and human wellbeing debate: a case study application on indicators and linkages. Landscape Online, 0, 50, 1-27.	0.0	12
107	Combining Methods to Estimate Ecosystem Integrity and Ecosystem Service Potentials and Flows for Crop Production in Schleswig-Holstein, Germany. Landscape Online, 0, 79, 1-36.	0.0	3
108	One Ecosystem: Innovation in ecology and sustainability research publishing. One Ecosystem, 0, 1, e9255.	0.0	1

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109	Marine and Coastal Cultural Ecosystem Services: knowledge gaps and research priorities. One Ecosystem, 0, 2, e12290.	0.0	108
110	Practical solutions for bottlenecks in ecosystem services mapping. One Ecosystem, 0, 3, e20713.	0.0	22
111	Mapping of nutrient regulating ecosystem service supply and demand on different scales in Schleswig-Holstein, Germany. One Ecosystem, 0, 3, e22509.	0.0	22
112	An operational framework for integrated Mapping and Assessment of Ecosystems and their Services (MAES). One Ecosystem, 0, 3, e22831.	0.0	67
113	Hotspots of biodiversity and ecosystem services: the Outermost Regions and Overseas Countries and Territories of the European Union. One Ecosystem, 0, 3, e24719.	0.0	18
114	Ecosystem services are inclusive and deliver multiple values. A comment on the concept of nature's contributions to people. One Ecosystem, 0, 3, e24720.	0.0	40
115	On the importance of a broad stakeholder network for developing a credible, salient and legitimate tiered approach for assessing ecosystem services. One Ecosystem, 0, 3, e25470.	0.0	10
116	Mapping Control of Erosion Rates: Comparing Model and Monitoring Data for Croplands in Northern Germany. One Ecosystem, 0, 3, e26382.	0.0	14
117	Glossary of ecosystem services mapping and assessment terminology. One Ecosystem, 0, 3, .	0.0	20
118	Mapping and assessing ecosystem services in the EU - Lessons learned from the ESMERALDA approach of integration. One Ecosystem, 0, 3, .	0.0	33
119	Mapping and assessing ecosystem services: Methods and practical applications. One Ecosystem, 0, 4, .	0.0	5
120	Ten years of ecosystem services matrix: Review of a (r)evolution. One Ecosystem, 0, 5, .	0.0	56
121	Ecosystem services mapping and assessment for policy- and decision-making: Lessons learned from a comparative analysis of European case studies. One Ecosystem, 0, 5, .	0.0	33
122	Assessing the effects of different land-use/land-cover input datasets on modelling and mapping terrestrial ecosystem services - Case study Terceira Island (Azores, Portugal). One Ecosystem, 0, 6, .	0.0	10
123	U-shaped deep-learning models for island ecosystem type classification, a case study in Con Dao Island of Vietnam. One Ecosystem, 0, 7, .	0.0	8
124	Conceptualising the demand for ecosystem services â€“ an adapted spatial-structural approach. One Ecosystem, 0, 6, .	0.0	8
125	Environmental assessing of reindeer herding in changing landscapes on different scales. NATO Science for Peace and Security Series C: Environmental Security, 0, , 413-427.	0.1	0