Hanna Meyer

List of Publications by Year
in descending order

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29	1,381	430754	454834
papers	citations	18 h-index	30 g-index

33	33	33	1905
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improving performance of spatio-temporal machine learning models using forward feature selection and target-oriented validation. Environmental Modelling and Software, 2018, 101, 1-9.	1.9	233
2	Importance of spatial predictor variable selection in machine learning applications â€“ Moving from data reproduction to spatial prediction. Ecological Modelling, 2019, 411, 108815.	1.2	184
3	Predicting into unknown space? Estimating the area of applicability of spatial prediction models. Methods in Ecology and Evolution, 2021, 12, 1620-1633.	2.2	139
4	Retrieval of grassland plant coverage on the Tibetan Plateau based on a multi-scale, multi-sensor and multi-method approach. Remote Sensing of Environment, 2015, 164, 197-207.	4.6	90
5	Mapping Daily Air Temperature for Antarctica Based on MODIS LST. Remote Sensing, 2016, 8, 732.	1.8	89
6	Comparison of four machine learning algorithms for their applicability in satellite-based optical rainfall retrievals. Atmospheric Research, 2016, 169, 424-433.	1.8	80
7	Machine learning-based global maps of ecological variables and the challenge of assessing them. Nature Communications, 2022, 13, 2208.	5.8	69
8	Spatio-temporal interpolation of soil water, temperature, and electrical conductivity in 3DÂ+ÂT: The Cook Agronomy Farm data set. Spatial Statistics, 2015, 14, 70-90.	0.9	64
9	A hyperspectral indicator system for rangeland degradation on the Tibetan Plateau: A case study towards spaceborne monitoring. Ecological Indicators, 2014, 39, 54-64.	2.6	53
10	Regional-scale controls on the spatial activity of rockfalls (Turtmann Valley, Swiss Alps) â€” A multivariate modeling approach. Geomorphology, 2017, 287, 29-45.	1.1	50
11	Mapping fractional woody cover in semi-arid savannahs using multi-seasonal composites from Landsat data. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 139, 88-102.	4.9	46
12	Machine learning and multi-sensor based modelling of woody vegetation in the Molopo Area, South Africa. Remote Sensing of Environment, 2019, 222, 195-203.	4.6	37
13	From local spectral measurements to maps of vegetation cover and biomass on the Qinghai-Tibet-Plateau: Do we need hyperspectral information?. International Journal of Applied Earth Observation and Geoinformation, 2017, 55, 21-31.	1.4	33
14	Mapping the geogenic radon potential for Germany by machine learning. Science of the Total Environment, 2021, 754, 142291.	3.9	32
15	Projecting land-use and land-cover changes in a tropical mountain forest of Southern Ecuador. Journal of Land Use Science, 2014, 9, 1-33.	1.0	28
16	Automatic classification of Google Earth images for a larger scale monitoring of bush encroachment in South Africa. International Journal of Applied Earth Observation and Geoinformation, 2016, 50, 89-94.	1.4	25
17	Soil respiration and its temperature sensitivity (Q10): Rapid acquisition using mid-infrared spectroscopy. Geoderma, 2018, 323, 31-40.	2.3	22
18	Environmental Changes Affecting the Andes of Ecuador. Ecological Studies, 2013, , 19-29.	0.4	22

#	Article	IF	Citations
19	Multiple indicators yield diverging results on grazing degradation and climate controls across Tibetan pastures. Ecological Indicators, 2018, 93, 1199-1208.	2.6	17
20	Nearest neighbour distance matching <scp>Leaveâ€Oneâ€Out Crossâ€Validation</scp> for map validation. Methods in Ecology and Evolution, 2022, 13, 1304-1316.	2.2	15
21	Satellite-based high-resolution mapping of rainfall over southern Africa. Atmospheric Measurement Techniques, 2017, 10, 2009-2019.	1.2	11
22	Hourly gridded air temperatures of South Africa derived from MSG SEVIRI. International Journal of Applied Earth Observation and Geoinformation, 2019, 78, 261-267.	1.4	9
23	PioLaG: a piosphere landscape generator for savanna rangeland modelling. Landscape Ecology, 2020, 35, 2061-2082.	1.9	9
24	Revealing the potential of spectral and textural predictor variables in a neural network-based rainfall retrieval technique. Remote Sensing Letters, 2017, 8, 647-656.	0.6	8
25	Assessing pasture quality and degradation status using hyperspectral imaging: a case study from western Tibet. Proceedings of SPIE, 2013, , .	0.8	3
26	Atmospheric moisture pathways of East Africa and implications for water recycling at Mount Kilimanjaro. International Journal of Climatology, 2020, 40, 4477-4496.	1.5	3
27	Measuring pasture degradation on the Qinghai-Tibet Plateau using hyperspectral dissimilarities and indices. , 2013, , .		2
28	A Machine Learning Based Downscaling Approach to Produce High Spatio-Temporal Resolution Land Surface Temperature of the Antarctic Dry Valleys from MODIS Data. Remote Sensing, 2021, 13, 4673.	1.8	2
29	Potential of Airborne LiDAR Derived Vegetation Structure for the Prediction of Animal Species Richness at Mount Kilimanjaro. Remote Sensing, 2022, 14, 786.	1.8	1