Ben Somers

List of Publications by Year
in descending order

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Version: 2024-02-01

105	5,106	126858	95218
papers	citations	33 h-index	68 g-index

110	110	110	7706
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Foliar optical traits capture physiological and phenological leaf plasticity in TiliaÃ—euchlora in the urban environment. Science of the Total Environment, 2022, 805, 150219.	3.9	4
2	Mapping abundance distributions of allergenic tree species in urbanized landscapes: A nation-wide study for Belgium using forest inventory and citizen science data. Landscape and Urban Planning, 2022, 218, 104286.	3.4	6
3	Species profiles support recommendations for quality filtering of opportunistic citizen science data. Ecological Modelling, 2022, 467, 109910.	1.2	2
4	Residential Exposure to Urban Trees and Medication Sales for Mood Disorders and Cardiovascular Disease in Brussels, Belgium: An Ecological Study. Environmental Health Perspectives, 2022, 130, 57003.	2.8	16
5	Pan-European urban green space dynamics: A view from space between 1990 and 2015. Landscape and Urban Planning, 2022, 226, 104477.	3.4	13
6	Spectrally defined plant functional types adequately capture multidimensional trait variation in herbaceous communities. Ecological Indicators, 2021, 120, 106970.	2.6	6
7	Unmixing-based Sentinel-2 downscaling for urban land cover mapping. ISPRS Journal of Photogrammetry and Remote Sensing, 2021, 171, 133-154.	4.9	26
8	Tree pollen allergy risks and changes across scenarios in urban green spaces in Brussels, Belgium. Landscape and Urban Planning, 2021, 207, 104001.	3.4	30
9	A combination of climate, tree diversity and local human disturbance determine the stability of dry Afromontane forests. Forest Ecosystems, 2021, 8, .	1.3	9
10	The impact of data quality filtering of opportunistic citizen science data on species distribution model performance. Ecological Modelling, 2021, 444, 109453.	1.2	24
11	A traitâ€based approach across the native and invaded range to understand plant invasiveness and community impact. Oikos, 2021, 130, 1001-1013.	1.2	9
12	Mapping the Urban Atmospheric Carbon Stock by LiDAR and WorldView-3 Data. Forests, 2021, 12, 692.	0.9	5
13	Residential green space types, allergy symptoms and mental health in a cohort of tree pollen allergy patients. Landscape and Urban Planning, 2021, 210, 104070.	3.4	11
14	Exposure to green space and pollen allergy symptom severity: A case-crossover study in Belgium. Science of the Total Environment, 2021, 781, 146682.	3.9	25
15	Evaluating different methods for retrieving intraspecific leaf trait variation from hyperspectral leaf reflectance. Ecological Indicators, 2021, 130, 108111.	2.6	8
16	Monitor Mangrove Forest Dynamics from Multi-temporal Landsat 8-OLI Images in the Southern Coast of Sancti SpÃritus Province (Cuba). Lecture Notes in Computer Science, 2021, , 169-182.	1.0	0
17	Surveying Green Spaces in European Human Settlements at 30 m Sub-Pixel Level. , 2021, , .		0
18	Urban Tree Species Classification Using Airborne Lidar and Hyperspectral Imagery. , 2021, , .		0

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19	Thirty Years of Land Cover and Fraction Cover Changes Over the Sudano-Sahel Using Landsat Time Series. , 2021, , .		0
20	Residential green space and seasonal distress in a cohort of tree pollen allergy patients. International Journal of Hygiene and Environmental Health, 2020, 223, 71-79.	2.1	18
21	TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	4.2	1,038
22	Assessing the impact of an invasive bryophyte on plant species richness using high resolution imaging spectroscopy. Ecological Indicators, 2020, 110, 105882.	2.6	7
23	Residential green space and medication sales for childhood asthma: A longitudinal ecological study in Belgium. Environmental Research, 2020, 189, 109914.	3.7	27
24	Thirty Years of Land Cover and Fraction Cover Changes over the Sudano-Sahel Using Landsat Time Series. Remote Sensing, 2020, 12, 3817.	1.8	16
25	Urban Tree Health Classification Across Tree Species by Combining Airborne Laser Scanning and Imaging Spectroscopy. Remote Sensing, 2020, 12, 2435.	1.8	14
26	Remotely sensed plant traits can provide insights into ecosystem impacts of plant invasions: a case study covering two functionally different invaders. Biological Invasions, 2020, 22, 3533-3550.	1.2	7
27	Closing the Phenotyping Gap: High Resolution UAV Time Series for Soybean Growth Analysis Provides Objective Data from Field Trials. Remote Sensing, 2020, 12, 1644.	1.8	32
28	Optical traits perform equally well as directlyâ€measured functional traits in explaining the impact of an invasive plant on litter decomposition. Journal of Ecology, 2020, 108, 2000-2011.	1.9	8
29	An evaluation of species distribution models to estimate tree diversity at genus level in a heterogeneous urban-rural landscape. Landscape and Urban Planning, 2020, 198, 103770.	3.4	12
30	Interâ€and intraspecific trait variation shape multidimensional trait overlap between two plant invaders and the invaded communities. Oikos, 2020, 129, 677-688.	1.2	17
31	Globalâ€scale characterization of turning points in arid and semiâ€arid ecosystem functioning. Global Ecology and Biogeography, 2020, 29, 1230-1245.	2.7	43
32	Mapping Functional Urban Green Types Using High Resolution Remote Sensing Data. Sustainability, 2020, 12, 2144.	1.6	26
33	SoilTemp: A global database of nearâ€surface temperature. Global Change Biology, 2020, 26, 6616-6629.	4.2	122
34	Community assembly on extensive green roofs: Effects of dispersalâ€, abioticâ€and biotic filtering on the spontaneous speciesâ€and functional diversity. Journal of Vegetation Science, 2019, 30, 1078-1088.	1.1	9
35	Multitemporal Chlorophyll Mapping in Pome Fruit Orchards from Remotely Piloted Aircraft Systems. Remote Sensing, 2019, 11, 1468.	1.8	21
36	Mapping impervious surface fractions using automated Fisher transformed unmixing. Remote Sensing of Environment, 2019, 232, 111311.	4.6	19

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37	Canopy height measurements and nonâ€destructive biomass estimation of Lolium perenne swards using UAV imagery. Grass and Forage Science, 2019, 74, 356-369.	1.2	44
38	Weeds and gaps on extensive green roofs: Ecological insights and recommendations for design and maintenance. Urban Forestry and Urban Greening, 2019, 46, 126484.	2.3	18
39	The importance of city trees for reducing net rainfall: comparing measurements and simulations. Hydrology and Earth System Sciences, 2019, 23, 3865-3884.	1.9	10
40	A novel procedure for measuring functional traits of herbaceous species through field spectroscopy. Methods in Ecology and Evolution, 2019, 10, 1332-1338.	2.2	7
41	Soil organic matter rather than ectomycorrhizal diversity is related to urban tree health. PLoS ONE, 2019, 14, e0225714.	1.1	8
42	Resilience and the reliability of spectral entropy to assess ecosystem stability. Global Change Biology, 2018, 24, e393-e394.	4.2	9
43	Analyzing remotely sensed structural and chemical canopy traits of a forest invaded by Prunus serotina over multiple spatial scales. Biological Invasions, 2018, 20, 2257-2271.	1.2	9
44	Transferability of species distribution models for the detection of an invasive alien bryophyte using imaging spectroscopy data. International Journal of Applied Earth Observation and Geoinformation, 2018, 68, 61-72.	1.4	17
45	A generic EEG artifact removal algorithm based on the multi-channel Wiener filter. Journal of Neural Engineering, 2018, 15, 036007.	1.8	174
46	Can wetland plant functional groups be spectrally discriminated?. Remote Sensing of Environment, 2018, 210, 25-34.	4.6	12
47	The functional characterization of grass- and shrubland ecosystems using hyperspectral remote sensing: trends, accuracy and moderating variables. Remote Sensing of Environment, 2018, 209, 747-763.	4.6	57
48	Satellite remote sensing of ecosystem functions: opportunities, challenges and way forward. Remote Sensing in Ecology and Conservation, 2018, 4, 71-93.	2.2	176
49	Vegetation reflectance spectroscopy for biomonitoring of heavy metal pollution in urban soils. Environmental Pollution, 2018, 243, 1912-1922.	3.7	31
50	Plant functional trait data and reflectance spectra for 22 palmiet wetland species. Data in Brief, 2018, 20, 1209-1219.	0.5	1
51	Towards an objective evaluation of persistency of Lolium perenne swards using UAV imagery. Euphytica, 2018, 214, 1.	0.6	14
52	Do Looks Matter? A Case Study on Extensive Green Roofs Using Discrete Choice Experiments. Sustainability, 2018, 10, 309.	1.6	35
53	Generalizing machine learning regression models using multi-site spectral libraries for mapping vegetation-impervious-soil fractions across multiple cities. Remote Sensing of Environment, 2018, 216, 482-496.	4.6	31
54	Is there more than meets the eye? Seed bank analysis of a typical novel ecosystem, the extensive green roof. Applied Vegetation Science, 2018, 21, 419-430.	0.9	16

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55	Foliar optical traits indicate that sealed planting conditions negatively affect urban tree health. Ecological Indicators, 2018, 95, 895-906.	2.6	6
56	A unified framework to model the potential and realized distributions of invasive species within the invaded range. Diversity and Distributions, 2017, 23, 806-819.	1.9	58
57	Mapping an invasive bryophyte species using hyperspectral remote sensing data. Biological Invasions, 2017, 19, 239-254.	1.2	59
58	Optical trait indicators for remote sensing of plant species composition: Predictive power and seasonal variability. Ecological Indicators, 2017, 73, 825-833.	2.6	35
59	A Novel Spectral Library Pruning Technique for Spectral Unmixing of Urban Land Cover. Remote Sensing, 2017, 9, 565.	1.8	34
60	Invasion by the Alien Tree Prunus serotina Alters Ecosystem Functions in a Temperate Deciduous Forest. Frontiers in Plant Science, 2017, 8, 179.	1.7	67
61	Assessment of Regional Vegetation Response to Climate Anomalies: A Case Study for Australia Using GIMMS NDVI Time Series between 1982 and 2006. Remote Sensing, 2017, 9, 34.	1.8	45
62	Viewing Geometry Sensitivity of Commonly Used Vegetation Indices towards the Estimation of Biophysical Variables in Orchards. Journal of Imaging, 2016, 2, 15.	1.7	1
63	Spectral unmixing of urban land cover using a generic library approach. Proceedings of SPIE, 2016, , .	0.8	1
64	Speciesâ€rich semiâ€natural grasslands have a higher resistance but a lower resilience than intensively managed agricultural grasslands in response to climate anomalies. Journal of Applied Ecology, 2016, 53, 430-439.	1.9	44
65	Temporal Dependency of Yield and Quality Estimation through Spectral Vegetation Indices in Pear Orchards. Remote Sensing, 2015, 7, 9886-9903.	1.8	16
66	Spectral Unmixing of Forest Crown Components at Close Range, Airborne and Simulated Sentinel-2 and EnMAP Spectral Imaging Scale. Remote Sensing, 2015, 7, 15361-15387.	1.8	36
67	Mesoscale assessment of changes in tropical tree species richness across a bioclimatic gradient in Panama using airborne imaging spectroscopy. Remote Sensing of Environment, 2015, 167, 111-120.	4.6	22
68	A model quantifying global vegetation resistance and resilience to shortâ€term climate anomalies and their relationship with vegetation cover. Global Ecology and Biogeography, 2015, 24, 539-548.	2.7	182
69	Plant Species Diversity Mediates Ecosystem Stability of Natural Dune Grasslands in Response to Drought. Ecosystems, 2015, 18, 1383-1394.	1.6	31
70	Reducing background effects in orchards through spectral vegetation index correction. International Journal of Applied Earth Observation and Geoinformation, 2015, 34, 167-177.	1.4	14
71	The fourth phase of the radiative transfer model intercomparison (RAMI) exercise: Actual canopy scenarios and conformity testing. Remote Sensing of Environment, 2015, 169, 418-437.	4.6	170
72	A Geometric Unmixing Concept for the Selection of Optimal Binary Endmember Combinations. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 82-86.	1.4	8

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73	On the use of collaborative sparse regression in hyperspectral unmixing chains. , 2014, , .		1
74	Site-Specific Plant Condition Monitoring Through Hyperspectral Alternating Least Squares Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3606-3618.	2.3	10
75	MUSIC-CSR: Hyperspectral Unmixing via Multiple Signal Classification and Collaborative Sparse Regression. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 4364-4382.	2.7	123
76	Unmixing-Based Fusion of Hyperspatial and Hyperspectral Airborne Imagery for Early Detection of Vegetation Stress. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2571-2582.	2.3	42
77	A Dynamic Unmixing Framework for Plant Production System Monitoring. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 2016-2034.	2.3	24
78	A Comparison of Nonlinear Mixing Models for Vegetated Areas Using Simulated and Real Hyperspectral Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1869-1878.	2.3	42
79	Quantifying Nonlinear Spectral Mixing in Vegetated Areas: Computer Simulation Model Validation and First Results. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1956-1965.	2.3	33
80	How to measure ecosystem stability? An evaluation of the reliability of stability metrics based on remote sensing time series across the major global ecosystems. Global Change Biology, 2014, 20, 2149-2161.	4.2	86
81	Nonlinear unmixing of vegetated areas: A model comparison based on simulated and real hyperspectral data. , 2014, , .		0
82	Vegetation index correction to reduce background effects in orchards with high spatial resolution imagery. Proceedings of SPIE, 2014, , .	0.8	0
83	Support vector regression and synthetically mixed training data for quantifying urban land cover. Remote Sensing of Environment, 2013, 137, 184-197.	4.6	120
84	Improving the efficiency of MESMA through geometric unmixing principles. Proceedings of SPIE, 2013, , .	0.8	2
85	Invasive Species Mapping in Hawaiian Rainforests Using Multi-Temporal Hyperion Spaceborne Imaging Spectroscopy. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 351-359.	2.3	61
86	Multi-temporal hyperspectral mixture analysis and feature selection for invasive species mapping in rainforests. Remote Sensing of Environment, 2013, 136, 14-27.	4.6	121
87	Integration of in situ measured soil status and remotely sensed hyperspectral data to improve plant production system monitoring: Concept, perspectives and limitations. Remote Sensing of Environment, 2013, 128, 197-211.	4.6	26
88	Alternating least-squares unmixing for the extraction of sub-pixel information from agricultural areas. , 2013, , .		1
89	Stem Water Potential Monitoring in Pear Orchards through WorldView-2 Multispectral Imagery. Remote Sensing, 2013, 5, 6647-6666.	1.8	31
90	Mapping tropical rainforest canopies using multi-temporal spaceborne imaging spectroscopy. , 2013, , .		1

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91	Improved signal unmixing of vegetation using sparse group selection. , 2013, , .		0
92	Plant production system monitoring via multiple signal classification and sparse regression. , 2013, , .		0
93	The Potential and Limitations of a Clustering Approach for the Improved Efficiency of Multiple Endmember Spectral Mixture Analysis in Plant Production System Monitoring. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 2273-2286.	2.7	29
94	Automated Extraction of Image-Based Endmember Bundles for Improved Spectral Unmixing. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 396-408.	2.3	159
95	Hyperspectral shape-based unmixing to improve intra- and interclass variability for forest and agro-ecosystem monitoring. ISPRS Journal of Photogrammetry and Remote Sensing, 2012, 74, 163-174.	4.9	27
96	Hyperspectral Time Series Analysis of Native and Invasive Species in Hawaiian Rainforests. Remote Sensing, 2012, 4, 2510-2529.	1.8	57
97	A Quantitative Analysis of Virtual Endmembers' Increased Impact on the Collinearity Effect in Spectral Unmixing. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2945-2956.	2.7	78
98	Endmember variability in Spectral Mixture Analysis: A review. Remote Sensing of Environment, 2011, 115, 1603-1616.	4.6	536
99	Off-nadir Viewing for Reducing Spectral Mixture Issues in Citrus Orchards. Photogrammetric Engineering and Remote Sensing, 2010, 76, 1261-1274.	0.3	8
100	The Contribution of the Fruit Component to the Hyperspectral Citrus Canopy Signal. Photogrammetric Engineering and Remote Sensing, 2010, 76, 37-47.	0.3	13
101	Evaluation and Normalization of Cloud Obscuration Related BRDF Effects in Field Spectroscopy. Remote Sensing, 2009, 1, 496-518.	1.8	6
102	Magnitude- and Shape-Related Feature Integration in Hyperspectral Mixture Analysis to Monitor Weeds in Citrus Orchards. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3630-3642.	2.7	34
103	Nonlinear Hyperspectral Mixture Analysis for tree cover estimates in orchards. Remote Sensing of Environment, 2009, 113, 1183-1193.	4.6	211
104	Hyperspectral Reflectance and Fluorescence Imaging to Detect Scab Induced Stress in Apple Leaves. Remote Sensing, 2009, 1, 858-874.	1.8	54
105	A Conceptual Framework for the Simultaneous Extraction of Sub-pixel Spatial Extent and Spectral Characteristics of Crops. Photogrammetric Engineering and Remote Sensing, 2009, 75, 57-68.	0.3	40