Anna Schweiger

List of Publications by Year
in descending order

25 papers	1,171 citations	516710 16 h-index	642732 23 g-index
32 all docs	32 docs citations	32 times ranked	1678 citing authors

#	Article	IF	Citations
1	Plant spectral diversity integrates functional and phylogenetic components of biodiversity and predicts ecosystem function. Nature Ecology and Evolution, 2018, 2, 976-982.	7.8	185
2	ISS observations offer insights into plant function. Nature Ecology and Evolution, 2017, 1, 194.	7.8	94
3	Harnessing plant spectra to integrate the biodiversity sciences across biological and spatial scales. American Journal of Botany, 2017, 104, 966-969.	1.7	92
4	Mapping foliar functional traits and their uncertainties across three years in a grassland experiment. Remote Sensing of Environment, 2019, 221, 405-416.	11.0	89
5	Remote sensing of biodiversity: Soil correction and data dimension reduction methods improve assessment of Ì±-diversity (species richness) in prairie ecosystems. Remote Sensing of Environment, 2018, 206, 240-253.	11.0	84
6	How to predict plant functional types using imaging spectroscopy: linking vegetation community traits, plant functional types and spectral response. Methods in Ecology and Evolution, 2017, 8, 86-95.	5.2	82
7	Detecting prairie biodiversity with airborne remote sensing. Remote Sensing of Environment, 2019, 221, 38-49.	11.0	72
8	Leaf reflectance spectra capture the evolutionary history of seed plants. New Phytologist, 2020, 228, 485-493.	7.3	72
9	Partitioning plant spectral diversity into alpha and beta components. Ecology Letters, 2020, 23, 370-380.	6.4	62
10	Influence of species richness, evenness, and composition on optical diversity: A simulation study. Remote Sensing of Environment, 2018, 211, 218-228.	11.0	53
11	Small-scale habitat use of black grouse (Tetrao tetrix L.) and rock ptarmigan (Lagopus muta helvetica) Tj ETQq1 1 0.784314 rgBT /Ove	1.4	32
12	Foraging ecology of three sympatric ungulate species â€“ Behavioural and resource maps indicate differences between chamois, ibex and red deer. Movement Ecology, 2015, 3, 6.	2.8	31
13	Using imaging spectroscopy to predict aboveâ€ground plant biomass in alpine grasslands grazed by large ungulates. Journal of Vegetation Science, 2015, 26, 175-190.	2.2	29
14	Canopy spectral reflectance detects oak wilt at the landscape scale using phylogenetic discrimination. Remote Sensing of Environment, 2022, 273, 112961.	11.0	24
15	Influence of migratory ungulate management on competitive interactions with resident species in a protected area. Ecosphere, 2015, 6, 1-18.	2.2	23
16	Remotely detected aboveground plant function predicts belowground processes in two prairie diversity experiments. Ecological Monographs, 2022, 92, e1488.	5.4	19
17	Plant beta-diversity across biomes captured by imaging spectroscopy. Nature Communications, 2022, 13, 2767.	12.8	18
18	Harnessing the NEON data revolution to advance open environmental science with a diverse and dataâ€capable community. Ecosphere, 2021, 12, .	2.2	15

#	Article	IF	Citations
19	Genetic, morphological, and spectral characterization of relictual Niobrara River hybrid aspens (Populus Ã— smithii). American Journal of Botany, 2017, 104, 1878-1890.	1.7	14
20	Foliar Spectra and Traits of Bog Plants across Nitrogen Deposition Gradients. Remote Sensing, 2020, 12, 2448.	4.0	13
21	Spectral Field Campaigns: Planning and Data Collection. , 2020, , 385-423.		13
22	Foliar sampling with an unmanned aerial system (UAS) reveals spectral and functional trait differences within tree crowns. Canadian Journal of Forest Research, 2020, 50, 966-974.	1.7	11
23	Applying Remote Sensing to Biodiversity Science. , 2020, , 13-42.		10
24	Coupling spectral and resource-use complementarity in experimental grassland and forest communities. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211290.	2.6	9
25	Expanding NEON biodiversity surveys with new instrumentation and machine learning approaches. Ecosphere, 2021, 12, e03795.	2.2	6