

Shaun R Levick

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9306431/publications.pdf>

Version: 2024-02-01

63
papers

3,652
citations

136740

32
h-index

133063

59
g-index

68
all docs

68
docs citations

68
times ranked

5435
citing authors

#	ARTICLE	IF	CITATIONS
1	ESP: a tool to estimate scale parameter for multiresolution image segmentation of remotely sensed data. <i>International Journal of Geographical Information Science</i> , 2010, 24, 859-871.	2.2	708
2	Large-scale impacts of herbivores on the structural diversity of African savannas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4947-4952.	3.3	234
3	Carbon stock and density of northern boreal and temperate forests. <i>Global Ecology and Biogeography</i> , 2014, 23, 297-310.	2.7	226
4	Terrestrial laser scanning in forest ecology: Expanding the horizon. <i>Remote Sensing of Environment</i> , 2020, 251, 112102.	4.6	208
5	A synthesis of tree functional traits related to drought-induced mortality in forests across climatic zones. <i>Journal of Applied Ecology</i> , 2017, 54, 1669-1686.	1.9	148
6	Landscape-scale effects of herbivores on treefall in African savannas. <i>Ecology Letters</i> , 2012, 15, 1211-1217.	3.0	141
7	The relative influence of fire and herbivory on savanna three-dimensional vegetation structure. <i>Biological Conservation</i> , 2009, 142, 1693-1700.	1.9	96
8	Spatial variability and abiotic determinants of termite mounds throughout a savanna catchment. <i>Ecography</i> , 2014, 37, 852-862.	2.1	90
9	Deadwood enrichment in European forests – Which tree species should be used to promote saproxylic beetle diversity?. <i>Biological Conservation</i> , 2016, 201, 92-102.	1.9	82
10	Ecosystem-scale effects of megafauna in African savannas. <i>Ecography</i> , 2016, 39, 240-252.	2.1	81
11	Heterogeneity-diversity relationships differ between and within trophic levels in temperate forests. <i>Nature Ecology and Evolution</i> , 2020, 4, 1204-1212.	3.4	76
12	Fire, fragmentation, and windstorms: A recipe for tropical forest degradation. <i>Journal of Ecology</i> , 2019, 107, 656-667.	1.9	74
13	Regional insight into savanna hydrogeomorphology from termite mounds. <i>Nature Communications</i> , 2010, 1, 65.	5.8	73
14	When a Tree Dies in the Forest: Scaling Climate-Driven Tree Mortality to Ecosystem Water and Carbon Fluxes. <i>Ecosystems</i> , 2016, 19, 1133-1147.	1.6	73
15	Patch and species specific responses of savanna woody vegetation to browser exclusion. <i>Biological Conservation</i> , 2008, 141, 489-498.	1.9	72
16	The spatial extent of termite influences on herbivore browsing in an African savanna. <i>Biological Conservation</i> , 2010, 143, 2462-2467.	1.9	69
17	Radar vision in the mapping of forest biodiversity from space. <i>Nature Communications</i> , 2019, 10, 4757.	5.8	66
18	Topo-edaphic controls over woody plant biomass in South African savannas. <i>Biogeosciences</i> , 2012, 9, 1809-1821.	1.3	61

#	ARTICLE	IF	CITATIONS
19	Ecosystem dynamics and management after forest die-off: a global synthesis with conceptual state-and-transition models. <i>Ecosphere</i> , 2017, 8, e02034.	1.0	56
20	Efficiency of Individual Tree Detection Approaches Based on Light-Weight and Low-Cost UAS Imagery in Australian Savannas. <i>Remote Sensing</i> , 2018, 10, 161.	1.8	54
21	Landscape-scale variation in plant community composition of an African savanna from airborne species mapping. <i>Ecological Applications</i> , 2014, 24, 84-93.	1.8	53
22	Tree neighbourhood matters – Tree species composition drives diversity-productivity patterns in a near-natural beech forest. <i>Forest Ecology and Management</i> , 2015, 335, 225-234.	1.4	51
23	Mapping and monitoring geological hazards using optical, LiDAR, and synthetic aperture RADAR image data. <i>Natural Hazards</i> , 2014, 73, 137-163.	1.6	50
24	Shaping post-orogenic landscapes by climate and chemical weathering. <i>Geology</i> , 2013, 41, 1171-1174.	2.0	48
25	Assessment of the mapping of fractional woody cover in southern African savannas using multi-temporal and polarimetric ALOS PALSAR L-band images. <i>Remote Sensing of Environment</i> , 2015, 166, 138-153.	4.6	46
26	Context-dependent vegetation dynamics in an African savanna. <i>Landscape Ecology</i> , 2011, 26, 515-528.	1.9	44
27	The rate and spatial pattern of treefall in a savanna landscape. <i>Biological Conservation</i> , 2013, 157, 121-127.	1.9	44
28	Variable effects of termite mounds on African savanna grass communities across a rainfall gradient. <i>Journal of Vegetation Science</i> , 2014, 25, 1405-1416.	1.1	43
29	Prolonged tropical forest degradation due to compounding disturbances: Implications for CO ₂ and H ₂ O fluxes. <i>Global Change Biology</i> , 2019, 25, 2855-2868.	4.2	43
30	Termite mounds differ in their importance for herbivores across savanna types, seasons and spatial scales. <i>Oikos</i> , 2016, 125, 726-734.	1.2	37
31	Hierarchical integration of individual tree and area-based approaches for savanna biomass uncertainty estimation from airborne LiDAR. <i>Remote Sensing of Environment</i> , 2018, 205, 141-150.	4.6	36
32	Community Composition and Abundance of Bacterial, Archaeal and Nitrifying Populations in Savanna Soils on Contrasting Bedrock Material in Kruger National Park, South Africa. <i>Frontiers in Microbiology</i> , 2016, 7, 1638.	1.5	34
33	Map of the 2010 Greendale Fault surface rupture, Canterbury, New Zealand: application to land use planning. <i>New Zealand Journal of Geology, and Geophysics</i> , 2012, 55, 223-230.	1.0	32
34	Demographic legacies of fire history in an African savanna. <i>Functional Ecology</i> , 2015, 29, 131-139.	1.7	32
35	Savanna vegetation structure in the Brazilian Cerrado allows for the accurate estimation of aboveground biomass using terrestrial laser scanning. <i>Forest Ecology and Management</i> , 2020, 458, 117798.	1.4	29
36	Leveraging TLS as a Calibration and Validation Tool for MLS and ULS Mapping of Savanna Structure and Biomass at Landscape-Scales. <i>Remote Sensing</i> , 2021, 13, 257.	1.8	28

#	ARTICLE	IF	CITATIONS
37	Using terrestrial laser scanning for characterizing tree structural parameters and their changes under different management in a Mediterranean open woodland. <i>Forest Ecology and Management</i> , 2021, 486, 118945.	1.4	25
38	Variability in fire-induced change to vegetation physiognomy and biomass in semi-arid savanna. <i>Ecosphere</i> , 2018, 9, e02514.	1.0	23
39	Spatial patterns in the effects of fire on savanna vegetation three-dimensional structure. <i>Ecological Applications</i> , 2012, 22, 2110-2121.	1.8	21
40	Monitoring the Distribution and Dynamics of an Invasive Grass in Tropical Savanna Using Airborne LiDAR. <i>Remote Sensing</i> , 2015, 7, 5117-5132.	1.8	21
41	Scaling wood volume estimates from inventory plots to landscapes with airborne LiDAR in temperate deciduous forest. <i>Carbon Balance and Management</i> , 2016, 11, 7.	1.4	19
42	Limitations of high resolution satellite stereo imagery for estimating canopy height in Australian tropical savannas. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2019, 75, 83-95.	1.4	18
43	Exploring the Variability of Tropical Savanna Tree Structural Allometry with Terrestrial Laser Scanning. <i>Remote Sensing</i> , 2020, 12, 3893.	1.8	17
44	Leveraging High-Resolution Satellite Imagery and Gradient Boosting for Invasive Weed Mapping. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020, 13, 4443-4450.	2.3	17
45	Rapid response of habitat structure and above-ground carbon storage to altered fire regimes in tropical savanna. <i>Biogeosciences</i> , 2019, 16, 1493-1503.	1.3	16
46	Exploring the Potential of C-Band SAR in Contributing to Burn Severity Mapping in Tropical Savanna. <i>Remote Sensing</i> , 2020, 12, 49.	1.8	13
47	Seasonal variation in the relative dominance of herbivore guilds in an African savanna. <i>Ecology</i> , 2016, 97, 1618-1624.	1.5	12
48	Yellow-meadow ant (<i>Lasius flavus</i>) mound development determines soil properties and growth responses of different plant functional types. <i>European Journal of Soil Biology</i> , 2017, 81, 83-93.	1.4	10
49	Characterising Termite Mounds in a Tropical Savanna with UAV Laser Scanning. <i>Remote Sensing</i> , 2021, 13, 476.	1.8	10
50	Moving window analysis and riparian boundary delineation on the Northern Plains of Kruger National Park, South Africa. <i>Acta Oecologica</i> , 2009, 35, 573-580.	0.5	9
51	Quantifying erosional equilibrium across a slowly eroding, soil mantled landscape. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 499-510.	1.2	8
52	Moving from plot-based to hillslope-scale assessments of savanna vegetation structure with long-range terrestrial laser scanning (LR-TLS). <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2020, 90, 102070.	1.4	8
53	Dispersal ability, trophic position and body size mediate species turnover processes: Insights from a multi-taxa and multi-scale approach. <i>Diversity and Distributions</i> , 2021, 27, 439-453.	1.9	8
54	Modelling the Diameter Distribution of Savanna Trees with Drone-Based LiDAR. <i>Remote Sensing</i> , 2021, 13, 1266.	1.8	8

#	ARTICLE	IF	CITATIONS
55	Habitat differences do not explain population declines of sable antelope in an African savanna. <i>Journal of Zoology</i> , 2015, 297, 225-234.	0.8	7
56	A study on the postrelease behaviour and habitat preferences of black rhinos (<i>Diceros</i>) in a savanna. <i>Journal of Zoology</i> , 2015, 297, 531-539.	0.4	7
57	Illuminating tree selection by an arboreal mammal using terrestrial laser scanning in northern Australia. <i>Remote Sensing in Ecology and Conservation</i> , 2021, 7, 154-168.	2.2	7
58	Water Balance of a Small Island Experiencing Climate Change. <i>Water (Switzerland)</i> , 2022, 14, 1771.	1.2	7
59	Developing landscape-scale forest restoration targets that embrace spatial pattern. <i>Landscape Ecology</i> , 2022, 37, 1747-1760.	1.9	7
60	Weed Mapping Using Very High Resolution Satellite Imagery and Fully Convolutional Neural Network. <i>Remote Sensing</i> , 2019, 11, 1-12.		6
61	Multi-platform LiDAR approach for detecting coarse woody debris in a landscape with varied ground cover. <i>International Journal of Remote Sensing</i> , 2021, 42, 9324-9350.	1.3	4
62	Corrigendum to "Topo-edaphic controls over woody plant biomass in South African savannas"; published in <i>Biogeosciences</i> , 9, 1809-1821, 2012. <i>Biogeosciences</i> , 2013, 10, 2655-2655.	1.3	0
63	EQUILIBRIUM LANDSCAPES: WHERE SOIL PRODUCTION FUNCTIONS FAIL. <i>Journal of Ecology</i> , 2016, 104, 1-12.		0