Shaun R Levick

List of Publications by Year
in descending order

63 papers	3,652 citations	136950 32 h-index	133252 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. International Journal of Geographical Information Science, 2010, 24, 859-871.	4.8	708
2	Large-scale impacts of herbivores on the structural diversity of African savannas. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4947-4952.	7.1	234
3	Carbon stock and density of northern boreal and temperate forests. Global Ecology and Biogeography, 2014, 23, 297-310.	5.8	226
4	Terrestrial laser scanning in forest ecology: Expanding the horizon. Remote Sensing of Environment, 2020, 251, 112102.	11.0	208
5	A synthesis of tree functional traits related to droughtâ€induced mortality in forests across climatic zones. Journal of Applied Ecology, 2017, 54, 1669-1686.	4.0	148
6	Landscapeâ€scale effects of herbivores on treefall in African savannas. Ecology Letters, 2012, 15, 1211-1217.	6.4	141
7	The relative influence of fire and herbivory on savanna three-dimensional vegetation structure. Biological Conservation, 2009, 142, 1693-1700.	4.1	96
8	Spatial variability and abiotic determinants of termite mounds throughout a savanna catchment. Ecography, 2014, 37, 852-862.	4.5	90
9	Deadwood enrichment in European forests â€“ Which tree species should be used to promote saproxylic beetle diversity?. Biological Conservation, 2016, 201, 92-102.	4.1	82
10	Ecosystemâ€scale effects of megafauna in African savannas. Ecography, 2016, 39, 240-252.	4.5	81
11	Heterogeneityâ€“diversity relationships differ between and within trophic levels in temperate forests. Nature Ecology and Evolution, 2020, 4, 1204-1212.	7.8	76
12	Fire, fragmentation, and windstorms: A recipe for tropical forest degradation. Journal of Ecology, 2019, 107, 656-667.	4.0	74
13	Regional insight into savanna hydrogeomorphology from termite mounds. Nature Communications, 2010, 1, 65.	12.8	73
14	When a Tree Dies in the Forest: Scaling Climate-Driven Tree Mortality to Ecosystem Water and Carbon Fluxes. Ecosystems, 2016, 19, 1133-1147.	3.4	73
15	Patch and species specific responses of savanna woody vegetation to browser exclusion. Biological Conservation, 2008, 141, 489-498.	4.1	72
16	The spatial extent of termite influences on herbivore browsing in an African savanna. Biological Conservation, 2010, 143, 2462-2467.	4.1	69
17	Radar vision in the mapping of forest biodiversity from space. Nature Communications, 2019, 10, 4757.	12.8	66
18	Topo-edaphic controls over woody plant biomass in South African savannas. Biogeosciences, 2012, 9, 1809-1821.	3.3	61

#	Article	IF	Citations
19	Ecosystem dynamics and management after forest dieâ€off: a global synthesis with conceptual stateâ€andâ€transition models. Ecosphere, 2017, 8, e02034.	2.2	56
20	Efficiency of Individual Tree Detection Approaches Based on Light-Weight and Low-Cost UAS Imagery in Australian Savannas. Remote Sensing, 2018, 10, 161.	4.0	54
21	Landscapeâ€scale variation in plant community composition of an African savanna from airborne species mapping. Ecological Applications, 2014, 24, 84-93.	3.8	53
22	Tree neighbourhood matters â€“ Tree species composition drives diversityâ€“productivity patterns in a near-natural beech forest. Forest Ecology and Management, 2015, 335, 225-234.	3.2	51
23	Mapping and monitoring geological hazards using optical, LiDAR, and synthetic aperture RADAR image data. Natural Hazards, 2014, 73, 137-163.	3.4	50
24	Shaping post-orogenic landscapes by climate and chemical weathering. Geology, 2013, 41, 1171-1174.	4.4	48
25	Assessment of the mapping of fractional woody cover in southern African savannas using multi-temporal and polarimetric ALOS PALSAR L-band images. Remote Sensing of Environment, 2015, 166, 138-153.	11.0	46
26	Context-dependent vegetation dynamics in an African savanna. Landscape Ecology, 2011, 26, 515-528.	4.2	44
27	The rate and spatial pattern of treefall in a savanna landscape. Biological Conservation, 2013, 157, 121-127.	4.1	44
28	Variable effects of termite mounds on <scp>A</scp>frican savanna grass communities across a rainfall gradient. Journal of Vegetation Science, 2014, 25, 1405-1416.	2.2	43
29	Prolonged tropical forest degradation due to compounding disturbances: Implications for CO₂ and H₂O fluxes. Global Change Biology, 2019, 25, 2855-2868.	9.5	43
30	Termite mounds differ in their importance for herbivores across savanna types, seasons and spatial scales. Oikos, 2016, 125, 726-734.	2.7	37
31	Hierarchical integration of individual tree and area-based approaches for savanna biomass uncertainty estimation from airborne LiDAR. Remote Sensing of Environment, 2018, 205, 141-150.	11.0	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. Frontiers in Microbiology, 2016, 7, 1638.	3.5	34
33	Map of the 2010 Greendale Fault surface rupture, Canterbury, New Zealand: application to land use planning. New Zealand Journal of Geology, and Geophysics, 2012, 55, 223-230.	1.8	32
34	Demographic legacies of fire history in an African savanna. Functional Ecology, 2015, 29, 131-139.	3.6	32
35	Savanna vegetation structure in the Brazilian Cerrado allows for the accurate estimation of aboveground biomass using terrestrial laser scanning. Forest Ecology and Management, 2020, 458, 117798.	3.2	29
36	Leveraging TLS as a Calibration and Validation Tool for MLS and ULS Mapping of Savanna Structure and Biomass at Landscape-Scales. Remote Sensing, 2021, 13, 257.	4.0	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. Forest Ecology and Management, 2021, 486, 118945.	3.2	25
38	Variability in fireâ€induced change to vegetation physiognomy and biomass in semiâ€arid savanna. Ecosphere, 2018, 9, e02514.	2.2	23
39	Spatial patterns in the effects of fire on savanna vegetation threeâ€dimensional structure. Ecological Applications, 2012, 22, 2110-2121.	3.8	21
40	Monitoring the Distribution and Dynamics of an Invasive Grass in Tropical Savanna Using Airborne LiDAR. Remote Sensing, 2015, 7, 5117-5132.	4.0	21
41	Scaling wood volume estimates from inventory plots to landscapes with airborne LiDAR in temperate deciduous forest. Carbon Balance and Management, 2016, 11, 7.	3.2	19
42	Limitations of high resolution satellite stereo imagery for estimating canopy height in Australian tropical savannas. International Journal of Applied Earth Observation and Geoinformation, 2019, 75, 83-95.	2.8	18
43	Exploring the Variability of Tropical Savanna Tree Structural Allometry with Terrestrial Laser Scanning. Remote Sensing, 2020, 12, 3893.	4.0	17
44	Leveraging High-Resolution Satellite Imagery and Gradient Boosting for Invasive Weed Mapping. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4443-4450.	4.9	17
45	Rapid response of habitat structure and above-ground carbon storage to altered fire regimes in tropical savanna. Biogeosciences, 2019, 16, 1493-1503.	3.3	16
46	Exploring the Potential of C-Band SAR in Contributing to Burn Severity Mapping in Tropical Savanna. Remote Sensing, 2020, 12, 49.	4.0	13
47	Seasonal variation in the relative dominance of herbivore guilds in an African savanna. Ecology, 2016, 97, 1618-1624.	3.2	12
48	Yellow-meadow ant (Lasius flavus) mound development determines soil properties and growth responses of different plant functional types. European Journal of Soil Biology, 2017, 81, 83-93.	3.2	10
49	Characterising Termite Mounds in a Tropical Savanna with UAV Laser Scanning. Remote Sensing, 2021, 13, 476.	4.0	10
50	Moving window analysis and riparian boundary delineation on the Northern Plains of Kruger National Park, South Africa. Acta Oecologica, 2009, 35, 573-580.	1.1	9
51	Quantifying erosional equilibrium across a slowly eroding, soil mantled landscape. Earth Surface Processes and Landforms, 2020, 45, 499-510.	2.5	8
52	Moving from plot-based to hillslope-scale assessments of savanna vegetation structure with long-range terrestrial laser scanning (LR-TLS). International Journal of Applied Earth Observation and Geoinformation, 2020, 90, 102070.	2.8	8
53	Dispersal ability, trophic position and body size mediate species turnover processes: Insights from a multiâ€taxa and multiâ€scale approach. Diversity and Distributions, 2021, 27, 439-453.	4.1	8
54	Modelling the Diameter Distribution of Savanna Trees with Drone-Based LiDAR. Remote Sensing, 2021, 13, 1266.	4.0	8

#	Article	IF	Citations
55	Habitat differences do not explain population declines of sable antelope in an <scp>A</scp>frican savanna. Journal of Zoology, 2015, 297, 225-234.	1.7	7
56	A study on the postrelease behaviour and habitat preferences of black rhinos (<i>Diceros) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (531-539.	0.9	7
57	Illuminating denâ€tree selection by an arboreal mammal using terrestrial laser scanning in northern Australia. Remote Sensing in Ecology and Conservation, 2021, 7, 154-168.	4.3	7
58	Water Balance of a Small Island Experiencing Climate Change. Water (Switzerland), 2022, 14, 1771.	2.7	7
59	Developing landscape-scale forest restoration targets that embrace spatial pattern. Landscape Ecology, 2022, 37, 1747-1760.	4.2	7
60	Weed Mapping Using Very High Resolution Satellite Imagery and Fully Convolutional Neural Network. , 2019, , .		6
61	Multi-platform LiDAR approach for detecting coarse woody debris in a landscape with varied ground cover. International Journal of Remote Sensing, 2021, 42, 9324-9350.	2.9	4
62	Corrigendum to "Topo-edaphic controls over woody plant biomass in South African savannas" published in Biogeosciences, 9, 1809â€“1821, 2012. Biogeosciences, 2013, 10, 2655-2655.	3.3	0
63	EQUILIBRIUM LANDSCAPES: WHERE SOIL PRODUCTION FUNCTIONS FAIL. , 2016, , .		0