

Stephen John Livesley

List of Publications by Year in descending order

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94
papers

5,972
citations

66336

42
h-index

76898

74
g-index

95
all docs

95
docs citations

95
times ranked

7112
citing authors

#	ARTICLE	IF	CITATIONS
1	Planning for cooler cities: A framework to prioritise green infrastructure to mitigate high temperatures in urban landscapes. <i>Landscape and Urban Planning</i> , 2015, 134, 127-138.	7.5	749
2	The Urban Forest and Ecosystem Services: Impacts on Urban Water, Heat, and Pollution Cycles at the Tree, Street, and City Scale. <i>Journal of Environmental Quality</i> , 2016, 45, 119-124.	2.0	491
3	Magnitude and biophysical regulators of methane emission and consumption in the Australian agricultural, forest, and submerged landscapes: a review. <i>Plant and Soil</i> , 2008, 309, 43-76.	3.7	220
4	Temperature and human thermal comfort effects of street trees across three contrasting street canyon environments. <i>Theoretical and Applied Climatology</i> , 2016, 124, 55-68.	2.8	218
5	Quantifying the thermal performance of green façades: A critical review. <i>Ecological Engineering</i> , 2014, 63, 102-113.	3.6	182
6	Increasing biodiversity in urban green spaces through simple vegetation interventions. <i>Journal of Applied Ecology</i> , 2017, 54, 1874-1883.	4.0	180
7	The conservation value of urban green space habitats for Australian native bee communities. <i>Biological Conservation</i> , 2015, 187, 240-248.	4.1	163
8	Tree canopy shade impacts on solar irradiance received by building walls and their surface temperature. <i>Building and Environment</i> , 2013, 69, 91-100.	6.9	152
9	Thermal infrared remote sensing of urban heat: Hotspots, vegetation, and an assessment of techniques for use in urban planning. <i>Remote Sensing of Environment</i> , 2016, 186, 637-651.	11.0	136
10	Rainfall interception and stem flow by eucalypt street trees – The impacts of canopy density and bark type. <i>Urban Forestry and Urban Greening</i> , 2014, 13, 192-197.	5.3	131
11	Temperate mangrove and salt marsh sediments are a small methane and nitrous oxide source but important carbon store. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 97, 19-27.	2.1	121
12	Microclimate benefits that different street tree species provide to sidewalk pedestrians relate to differences in Plant Area Index. <i>Landscape and Urban Planning</i> , 2017, 157, 502-511.	7.5	117
13	Approaches to urban vegetation management and the impacts on urban bird and bat assemblages. <i>Landscape and Urban Planning</i> , 2016, 153, 28-39.	7.5	109
14	The seven lamps of planning for biodiversity in the city. <i>Cities</i> , 2018, 83, 44-53.	5.6	92
15	Soil-atmosphere exchange of carbon dioxide, methane and nitrous oxide in urban garden systems: impact of irrigation, fertiliser and mulch. <i>Urban Ecosystems</i> , 2010, 13, 273-293.	2.4	88
16	Fire in Australian savannas: from leaf to landscape. <i>Global Change Biology</i> , 2015, 21, 62-81.	9.5	88
17	Soil-atmosphere exchange of greenhouse gases in a <i>Eucalyptus marginata</i> woodland, a clover-grass pasture, and <i>Pinus radiata</i> and <i>Eucalyptus globulus</i> plantations. <i>Global Change Biology</i> , 2009, 15, 425-440.	9.5	83
18	Estimation of urban tree canopy cover using random point sampling and remote sensing methods. <i>Urban Forestry and Urban Greening</i> , 2016, 20, 160-171.	5.3	83

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19	Variation in Vegetation Structure and Composition across Urban Green Space Types. <i>Frontiers in Ecology and Evolution</i> , 2016, 4, .	2.2	79
20	Applying spent coffee grounds directly to urban agriculture soils greatly reduces plant growth. <i>Urban Forestry and Urban Greening</i> , 2016, 18, 1-8.	5.3	78
21	Street Orientation and Side of the Street Greatly Influence the Microclimatic Benefits Street Trees Can Provide in Summer. <i>Journal of Environmental Quality</i> , 2016, 45, 167-174.	2.0	77
22	Seasonal variation and fire effects on CH ₄ , N ₂ O and CO ₂ exchange in savanna soils of northern Australia. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1440-1452.	4.8	75
23	Estimation of leaf area index in eucalypt forest with vertical foliage, using cover and fullframe fisheye photography. <i>Forest Ecology and Management</i> , 2007, 242, 756-763.	3.2	70
24	The influence of climate and drought on urban tree growth in southeast Australia and the implications for future growth under climate change. <i>Landscape and Urban Planning</i> , 2017, 167, 275-287.	7.5	68
25	Assessing productivity and carbon sequestration capacity of <i>Eucalyptus globulus</i> plantations using the process model Forest-DNDC: Calibration and validation. <i>Ecological Modelling</i> , 2006, 192, 83-94.	2.5	61
26	Title is missing!. <i>Plant and Soil</i> , 2000, 227, 149-161.	3.7	60
27	A comparison of four process-based models and a statistical regression model to predict growth of <i>Eucalyptus globulus</i> plantations. <i>Ecological Modelling</i> , 2009, 220, 734-746.	2.5	60
28	Quercitol and osmotic adaptation of field-grown <i>Eucalyptus</i> under seasonal drought stress. <i>Plant, Cell and Environment</i> , 2008, 31, 915-924.	5.7	59
29	Influence of water potential on nitrification and structure of nitrifying bacterial communities in semiarid soils. <i>Applied Soil Ecology</i> , 2008, 40, 189-194.	4.3	58
30	Soil Carbon and Carbon/Nitrogen Ratio Change under Tree Canopy, Tall Grass, and Turf Grass Areas of Urban Green Space. <i>Journal of Environmental Quality</i> , 2016, 45, 215-223.	2.0	58
31	Urban forest governance and decision-making: A systematic review and synthesis of the perspectives of municipal managers. <i>Landscape and Urban Planning</i> , 2019, 189, 166-180.	7.5	58
32	Quantifying uncertainty from large-scale model predictions of forest carbon dynamics. <i>Global Change Biology</i> , 2006, 12, 1421-1434.	9.5	57
33	Reduced throughfall decreases autotrophic respiration, but not heterotrophic respiration in a dry temperate broadleaved evergreen forest. <i>Agricultural and Forest Meteorology</i> , 2015, 200, 66-77.	4.8	54
34	Conserving herbivorous and predatory insects in urban green spaces. <i>Scientific Reports</i> , 2017, 7, 40970.	3.3	54
35	Carbon dioxide fluxes dominate the greenhouse gas exchanges of a seasonal wetland in the wet-dry tropics of northern Australia. <i>Agricultural and Forest Meteorology</i> , 2013, 182-183, 239-247.	4.8	53
36	SPECIAL Savanna Patterns of Energy and Carbon Integrated across the Landscape. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 1467-1485.	3.3	52

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37	Biochar and compost equally improve urban soil physical and biological properties and tree growth, with no added benefit in combination. <i>Science of the Total Environment</i> , 2020, 706, 135736.	8.0	52
38	Habitat complexity influences fine scale hydrological processes and the incidence of stormwater runoff in managed urban ecosystems. <i>Journal of Environmental Management</i> , 2015, 159, 1-10.	7.8	51
39	Soil-atmosphere greenhouse gas exchange in a cool, temperate <i>Eucalyptus delegatensis</i> forest in south-eastern Australia. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 393-406.	4.8	50
40	Land use change and the impact on greenhouse gas exchange in north Australian savanna soils. <i>Biogeosciences</i> , 2012, 9, 423-437.	3.3	48
41	Competition in tree row agroforestry systems. 3. Soil water distribution and dynamics. <i>Plant and Soil</i> , 2004, 264, 129-139.	3.7	47
42	A global comparison of the climatic niches of urban and native tree populations. <i>Global Ecology and Biogeography</i> , 2018, 27, 629-637.	5.8	44
43	Decision-making of municipal urban forest managers through the lens of governance. <i>Environmental Science and Policy</i> , 2020, 104, 136-147.	4.9	44
44	Salt tolerant plants increase nitrogen removal from biofiltration systems affected by saline stormwater. <i>Water Research</i> , 2015, 83, 195-204.	11.3	41
45	Establishing street trees in stormwater control measures can double tree growth when extended waterlogging is avoided. <i>Landscape and Urban Planning</i> , 2018, 178, 122-129.	7.5	41
46	Variation in leaf area density drives the rainfall storage capacity of individual urban tree species. <i>Hydrological Processes</i> , 2018, 32, 3729-3740.	2.6	41
47	Habitat Complexity Enhances Comminution and Decomposition Processes in Urban Ecosystems. <i>Ecosystems</i> , 2016, 19, 927-941.	3.4	36
48	Effects of deep tillage and municipal green waste compost amendments on soil properties and tree growth in compacted urban soils. <i>Journal of Environmental Management</i> , 2018, 227, 365-374.	7.8	35
49	Right tree, right place, right time: A visual-functional design approach to select and place trees for optimal shade benefit to commuting pedestrians. <i>Sustainable Cities and Society</i> , 2020, 52, 101816.	10.4	35
50	Changes in soil moisture drive soil methane uptake along a fire regeneration chronosequence in a eucalypt forest landscape. <i>Global Change Biology</i> , 2015, 21, 4250-4264.	9.5	34
51	London Plane trees (<i>Platanus x acerifolia</i>) before, during and after a heatwave: Losing leaves means less cooling benefit. <i>Urban Forestry and Urban Greening</i> , 2020, 54, 126746.	5.3	34
52	Trace gas flux and the influence of short-term soil water and temperature dynamics in Australian sheep grazed pastures of differing productivity. <i>Plant and Soil</i> , 2008, 309, 89-103.	3.7	33
53	The relationships between termite mound CH ₄ and CO ₂ emissions and internal concentration ratios are species specific. <i>Biogeosciences</i> , 2013, 10, 2229-2240.	3.3	33
54	Tree pits to help mitigate runoff in dense urban areas. <i>Journal of Hydrology</i> , 2018, 565, 400-410.	5.4	33

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55	Street tree stormwater control measures can reduce runoff but may not benefit established trees. <i>Landscape and Urban Planning</i> , 2019, 182, 144-155.	7.5	33
56	Soil Methane Uptake Increases under Continuous Throughfall Reduction in a Temperate Evergreen, Broadleaved Eucalypt Forest. <i>Ecosystems</i> , 2017, 20, 368-379.	3.4	31
57	The Importance of Termites to the CH ₄ Balance of a Tropical Savanna Woodland of Northern Australia. <i>Ecosystems</i> , 2011, 14, 698-709.	3.4	30
58	Occasional large emissions of nitrous oxide and methane observed in stormwater biofiltration systems. <i>Science of the Total Environment</i> , 2013, 465, 64-71.	8.0	30
59	Diurnal and seasonal variations in CH ₄ flux from termite mounds in tropical savannas of the Northern Territory, Australia. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1471-1479.	4.8	29
60	The Biodiversity of Urban and Peri-Urban Forests and the Diverse Ecosystem Services They Provide as Socio-Ecological Systems. <i>Forests</i> , 2016, 7, 291.	2.1	29
61	Patterns of tree removal and canopy change on public and private land in the City of Melbourne. <i>Sustainable Cities and Society</i> , 2020, 56, 102096.	10.4	28
62	High potential, but low actual, glycine uptake of dominant plant species in three Australian land-use types with intermediate N availability. <i>Plant and Soil</i> , 2009, 325, 109-121.	3.7	27
63	Tree water-use strategies to improve stormwater retention performance of biofiltration systems. <i>Water Research</i> , 2018, 144, 285-295.	11.3	27
64	Private tree removal, public loss: Valuing and enforcing existing tree protection mechanisms is the key to retaining urban trees on private land. <i>Landscape and Urban Planning</i> , 2020, 203, 103899.	7.5	27
65	Biosolid stockpiles are a significant point source for greenhouse gas emissions. <i>Journal of Environmental Management</i> , 2014, 143, 34-43.	7.8	26
66	Random point sampling to detect gain and loss in tree canopy cover in response to urban densification. <i>Urban Forestry and Urban Greening</i> , 2017, 24, 26-34.	5.3	24
67	Urban habitat complexity affects species richness but not environmental filtering of morphologically-diverse ants. <i>PeerJ</i> , 2015, 3, e1356.	2.0	23
68	Termite mound emissions of CH ₄ and CO ₂ are primarily determined by seasonal changes in termite biomass and behaviour. <i>Oecologia</i> , 2011, 167, 525-534.	2.0	22
69	Soil methane oxidation in both dry and wet temperate eucalypt forests shows a near-identical relationship with soil air-filled porosity. <i>Biogeosciences</i> , 2017, 14, 467-479.	3.3	22
70	Transpiration by established trees could increase the efficiency of stormwater control measures. <i>Water Research</i> , 2020, 173, 115597.	11.3	22
71	International approaches to protecting and retaining trees on private urban land. <i>Journal of Environmental Management</i> , 2021, 285, 112081.	7.8	22
72	Net ecosystem carbon exchange of a dry temperate eucalypt forest. <i>Biogeosciences</i> , 2017, 14, 3781-3800.	3.3	19

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73	Estimating the cooling potential of irrigating green spaces in 100 global cities with arid, temperate or continental climates. <i>Sustainable Cities and Society</i> , 2021, 71, 102974.	10.4	19
74	Vulnerability of native savanna trees and exotic <i>Khaya senegalensis</i> to seasonal drought. <i>Tree Physiology</i> , 2015, 35, 783-791.	3.1	18
75	Title is missing!. <i>Plant and Soil</i> , 2002, 247, 177-187.	3.7	17
76	Quantifying the relative importance of greenhouse gas emissions from current and future savanna land use change across northern Australia. <i>Biogeosciences</i> , 2016, 13, 6285-6303.	3.3	16
77	Tree water use strategies and soil type determine growth responses to biochar and compost organic amendments. <i>Soil and Tillage Research</i> , 2019, 192, 12-21.	5.6	16
78	Relating the climate envelopes of urban tree species to their drought and thermal tolerance. <i>Science of the Total Environment</i> , 2021, 753, 142012.	8.0	15
79	Soil Water Nitrate and Ammonium Dynamics under a Sewage Effluent-Irrigated Eucalypt Plantation. <i>Journal of Environmental Quality</i> , 2007, 36, 1883-1894.	2.0	14
80	Contrasting effects of urban habitat complexity on metabolic functional diversity and composition of litter and soil bacterial communities. <i>Urban Ecosystems</i> , 2017, 20, 595-607.	2.4	14
81	Repeated fuel reduction burns have little long-term impact on soil greenhouse gas exchange in a dry sclerophyll eucalypt forest. <i>Agricultural and Forest Meteorology</i> , 2015, 201, 17-25.	4.8	13
82	Urban Trees as Green Infrastructure for Stormwater Mitigation and Use. <i>Ecological Studies</i> , 2020, , 397-432.	1.2	13
83	Water Smart Cities Increase Irrigation to Provide Cool Refuge in a Climate Crisis. <i>Earth's Future</i> , 2021, 9, e2020EF001806.	6.3	12
84	Terrestrial Laser Scanning to Predict Canopy Area Metrics, Water Storage Capacity, and Throughfall Redistribution in Small Trees. <i>Remote Sensing</i> , 2018, 10, 1958.	4.0	9
85	Differences in carbon density and soil CH ₄ /N ₂ O flux among remnant and agro-ecosystems established since European settlement in the Mornington Peninsula, Australia. <i>Science of the Total Environment</i> , 2013, 465, 17-25.	8.0	7
86	Storage management influences greenhouse gas emissions from biosolids. <i>Journal of Environmental Management</i> , 2015, 151, 361-368.	7.8	7
87	The overlooked carbon loss due to decayed wood in urban trees. <i>Urban Forestry and Urban Greening</i> , 2018, 29, 142-153.	5.3	7
88	Greywater irrigation can support climbing plant growth on building green façades. <i>Urban Forestry and Urban Greening</i> , 2021, 62, 127119.	5.3	7
89	Testing the accuracy of resistance drilling to assess tree growth rate and the relationship to past climatic conditions. <i>Urban Forestry and Urban Greening</i> , 2018, 36, 1-12.	5.3	6
90	Selecting tree species with high transpiration and drought avoidance to optimise runoff reduction in passive irrigation systems. <i>Science of the Total Environment</i> , 2022, 812, 151466.	8.0	6

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91	Rooting Volume Impacts Growth, Coverage and Thermal Tolerance of Green Façade Climbing Plants. Land, 2021, 10, 1281.	2.9	4
92	Supporting Growth and Transpiration of Newly Planted Street Trees With Passive Irrigation Systems. Water Resources Research, 2022, 58, .	4.2	4
93	Standing volume yield, canopy structure and allometric relationships of dominant urban trees in Melbourne, Australia. Urban Forestry and Urban Greening, 2019, 43, 126363.	5.3	2
94	Nitrous oxide and methane flux in Australian and New Zealand landscapes: measurements, modeling and mitigation. Plant and Soil, 2008, 309, 1-4.	3.7	1