

David J Nowak

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

9,811
citations

81743

39
h-index

69108

77
g-index

110
all docs

110
docs citations

110
times ranked

7218
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying the stormwater runoff volume reduction benefits of urban street tree canopy. <i>Science of the Total Environment</i> , 2022, 806, 151296.	3.9	28
2	Urban Planning Insights from Tree Inventories and Their Regulating Ecosystem Services Assessment. <i>Sustainability</i> , 2022, 14, 1684.	1.6	9
3	The disparity in tree cover and ecosystem service values among redlining classes in the United States. <i>Landscape and Urban Planning</i> , 2022, 221, 104370.	3.4	32
4	The hidden value of trees: Quantifying the ecosystem services of tree lineages and their major threats across the contiguous US. , 2022, 1, e0000010.		14
5	Assessing Urban Forest Threats across the Conterminous United States. <i>Journal of Forestry</i> , 2022, 120, 676-692.	0.5	3
6	A single tree model to consistently simulate cooling, shading, and pollution uptake of urban trees. <i>International Journal of Biometeorology</i> , 2021, 65, 277-289.	1.3	33
7	Prioritizing the provision of urban ecosystem services in deprived areas, a question of environmental justice. <i>Ambio</i> , 2021, 50, 1035-1046.	2.8	7
8	Strategic National Urban Forest Inventory for the United States. <i>Journal of Forestry</i> , 2021, 119, 86-95.	0.5	5
9	Potential Hurricane Wind Risk to US Rural and Urban Forests. <i>Journal of Forestry</i> , 2021, 119, 393-406.	0.5	3
10	Comparing i-Tree Eco Estimates of Particulate Matter Deposition with Leaf and Canopy Measurements in an Urban Mediterranean Holm Oak Forest. <i>Environmental Science & Technology</i> , 2021, 55, 6613-6622.	4.6	35
11	The tree cover and temperature disparity in US urbanized areas: Quantifying the association with income across 5,723 communities. <i>PLoS ONE</i> , 2021, 16, e0249715.	1.1	47
12	An uncertainty framework for i-Tree eco: A comparative study of 15 cities across the United States. <i>Urban Forestry and Urban Greening</i> , 2021, 60, 127062.	2.3	19
13	Modeling lives saved from extreme heat by urban tree cover ^o . <i>Ecological Modelling</i> , 2021, 449, 109553.	1.2	17
14	Variations in urban forest allergy potential among cities and land uses. <i>Urban Forestry and Urban Greening</i> , 2021, 63, 127224.	2.3	10
15	Regulating Ecosystem Services “ Forests and Climate Regulation. , 2021, , .		0
16	Assessing macro-scale patterns in urban tree canopy and inequality. <i>Urban Forestry and Urban Greening</i> , 2020, 55, 126818.	2.3	18
17	Testing ecosystem accounting in the United States: A case study for the Southeast. <i>Ecosystem Services</i> , 2020, 43, 101099.	2.3	36
18	The increase of impervious cover and decrease of tree cover within urban areas globally (2012â€“2017). <i>Urban Forestry and Urban Greening</i> , 2020, 49, 126638.	2.3	79

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19	i-Tree cool river: An open source, freeware tool to simulate river water temperature coupled with HEC-RAS. <i>MethodsX</i> , 2020, 7, 100808.	0.7	7
20	DBH Distributions in America's Urban Forests—An Overview of Structural Diversity. <i>Forests</i> , 2020, 11, 135.	0.9	18
21	Crown width models for woody plant species growing in urban areas of the U.S.. <i>Urban Ecosystems</i> , 2020, 23, 905-917.	1.1	9
22	Ecosystem Service-Based Sensitivity Analyses of i-Tree Eco. <i>Arboriculture and Urban Forestry</i> , 2020, 46, 287-306.	0.2	13
23	Valuing Urban Tree Impacts on Precipitation Partitioning. , 2020, , 253-268.		11
24	Modeling the Potential Dispersal of Asian Longhorned Beetle Using Circuit Theory. <i>Professional Geographer</i> , 2019, 71, 580-594.	1.0	4
25	Annual biomass loss and potential value of urban tree waste in the United States. <i>Urban Forestry and Urban Greening</i> , 2019, 46, 126469.	2.3	31
26	A review of urban forest modeling: Implications for management and future research. <i>Urban Forestry and Urban Greening</i> , 2019, 43, 126366.	2.3	58
27	Present and future ecosystem services of trees in the Bronx, NY. <i>Urban Forestry and Urban Greening</i> , 2019, 42, 10-20.	2.3	41
28	Tree compensation rates: Compensating for the loss of future tree values. <i>Urban Forestry and Urban Greening</i> , 2019, 41, 93-103.	2.3	15
29	Remoción de contaminantes atmosféricos por el bosque urbano en el valle de Aburrá. <i>Colombia Forestal</i> , 2019, 22, 5-16.	0.5	9
30	Predictors of mortality for juvenile trees in a residential urban-to-rural cohort in Worcester, MA. <i>Urban Forestry and Urban Greening</i> , 2018, 30, 138-151.	2.3	11
31	US Urban Forest Statistics, Values, and Projections. <i>Journal of Forestry</i> , 2018, 116, 164-177.	0.5	83
32	Declining urban and community tree cover in the United States. <i>Urban Forestry and Urban Greening</i> , 2018, 32, 32-55.	2.3	122
33	Urban vacant land typology: A tool for managing urban vacant land. <i>Sustainable Cities and Society</i> , 2018, 36, 144-156.	5.1	75
34	Air pollution removal by urban forests in Canada and its effect on air quality and human health. <i>Urban Forestry and Urban Greening</i> , 2018, 29, 40-48.	2.3	328
35	Assessing how green space types affect ecosystem services delivery in Porto, Portugal. <i>Landscape and Urban Planning</i> , 2018, 170, 195-208.	3.4	63
36	Effects of urban tree canopy loss on land surface temperature magnitude and timing. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2017, 128, 338-353.	4.9	66

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37	Assessing mismatches in ecosystem services proficiency across the urban fabric of Porto (Portugal): The influence of structural and socioeconomic variables. <i>Ecosystem Services</i> , 2017, 23, 82-93.	2.3	19
38	Residential building energy conservation and avoided power plant emissions by urban and community trees in the United States. <i>Urban Forestry and Urban Greening</i> , 2017, 21, 158-165.	2.3	44
39	Forecasting Urban Forest Ecosystem Structure, Function, and Vulnerability. <i>Environmental Management</i> , 2017, 59, 373-392.	1.2	37
40	A conceptual framework of urban forest ecosystem vulnerability. <i>Environmental Reviews</i> , 2017, 25, 115-126.	2.1	40
41	Differential organization of taxonomic and functional diversity in an urban woody plant metacommunity. <i>Applied Vegetation Science</i> , 2017, 20, 7-17.	0.9	23
42	Urban forest structure, ecosystem services and change in Syracuse, NY. <i>Urban Ecosystems</i> , 2016, 19, 1455-1477.	1.1	94
43	Urban metabolism in Syracuse, NY – introduction. <i>Urban Ecosystems</i> , 2016, 19, 1419-1420.	1.1	0
44	Removal of Ozone by Urban and Peri-Urban Forests: Evidence from Laboratory, Field, and Modeling Approaches. <i>Journal of Environmental Quality</i> , 2016, 45, 224-233.	1.0	26
45	Application of advection-diffusion routing model to flood wave propagation: A case study on Big Piney River, Missouri USA. <i>Journal of Earth Science (Wuhan, China)</i> , 2016, 27, 9-14.	1.1	3
46	Mapping urban forest structure and function using hyperspectral imagery and lidar data. <i>Urban Forestry and Urban Greening</i> , 2016, 17, 135-147.	2.3	91
47	Air pollution removal by trees in public green spaces in Strasbourg city, France. <i>Urban Forestry and Urban Greening</i> , 2016, 17, 192-201.	2.3	320
48	Modeling and imaging land-cover influences on air temperature in and near Baltimore, MD. <i>Theoretical and Applied Climatology</i> , 2016, 124, 497-515.	1.3	11
49	The compositional similarity of urban forests among the world's cities is scale dependent. <i>Global Ecology and Biogeography</i> , 2015, 24, 1413-1423.	2.7	42
50	Assessing urban vacant land ecosystem services: Urban vacant land as green infrastructure in the City of Roanoke, Virginia. <i>Urban Forestry and Urban Greening</i> , 2015, 14, 519-526.	2.3	97
51	Simulating the effect of flow path roughness to examine how green infrastructure restores urban runoff timing and magnitude. <i>Urban Forestry and Urban Greening</i> , 2015, 14, 361-367.	2.3	9
52	Using urban forest assessment tools to model bird habitat potential. <i>Landscape and Urban Planning</i> , 2014, 122, 29-40.	3.4	45
53	Tree and forest effects on air quality and human health in the United States. <i>Environmental Pollution</i> , 2014, 193, 119-129.	3.7	606
54	Modeling of urban trees' effects on reducing human exposure to UV radiation in Seoul, Korea. <i>Urban Forestry and Urban Greening</i> , 2014, 13, 785-792.	2.3	27

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55	Five Anthropogenic Factors That Will Radically Alter Forest Conditions and Management Needs in the Northern United States. <i>Forest Science</i> , 2014, 60, 914-925.	0.5	51
56	Modeled PM2.5 removal by trees in ten U.S. cities and associated health effects. <i>Environmental Pollution</i> , 2013, 178, 395-402.	3.7	465
57	Effects of Urbanization on Tree Species Functional Diversity in Eastern North America. <i>Ecosystems</i> , 2013, 16, 1487-1497.	1.6	51
58	Carbon storage and sequestration by trees in urban and community areas of the United States. <i>Environmental Pollution</i> , 2013, 178, 229-236.	3.7	516
59	Science and Society: The Role of Long-Term Studies in Environmental Stewardship. <i>BioScience</i> , 2012, 62, 354-366.	2.2	42
60	Contrasting natural regeneration and tree planting in fourteen North American cities. <i>Urban Forestry and Urban Greening</i> , 2012, 11, 374-382.	2.3	79
61	Tree and impervious cover change in U.S. cities. <i>Urban Forestry and Urban Greening</i> , 2012, 11, 21-30.	2.3	233
62	Tree and impervious cover in the United States. <i>Landscape and Urban Planning</i> , 2012, 107, 21-30.	3.4	111
63	iTree-Hydro: Snow Hydrology Update For The Urban Forest Hydrology Model1. <i>Journal of the American Water Resources Association</i> , 2011, 47, 1211-1218.	1.0	15
64	Component-based development and sensitivity analyses of an air pollutant dry deposition model. <i>Environmental Modelling and Software</i> , 2011, 26, 804-816.	1.9	62
65	Evaluating The National Land Cover Database Tree Canopy and Impervious Cover Estimates Across the Conterminous United States: A Comparison with Photo-Interpreted Estimates. <i>Environmental Management</i> , 2010, 46, 378-390.	1.2	106
66	Spatial heterogeneity and air pollution removal by an urban forest. <i>Landscape and Urban Planning</i> , 2009, 90, 102-110.	3.4	385
67	Mechanistic Simulation of Tree Effects in an Urban Water Balance Model ¹ . <i>Journal of the American Water Resources Association</i> , 2008, 44, 75-85.	1.0	139
68	A Ground-Based Method of Assessing Urban Forest Structure and Ecosystem Services. <i>Arboriculture and Urban Forestry</i> , 2008, 34, 347-358.	0.2	401
69	Air pollution removal by urban trees and shrubs in the United States. <i>Urban Forestry and Urban Greening</i> , 2006, 4, 115-123.	2.3	1,623
70	The socioeconomics and management of Santiago de Chile's public urban forests. <i>Urban Forestry and Urban Greening</i> , 2006, 4, 105-114.	2.3	99
71	Institutionalizing urban forestry as a "biotechnology" to improve environmental quality. <i>Urban Forestry and Urban Greening</i> , 2006, 5, 93-100.	2.3	127
72	Role of sooty mold fungi in accumulation of fine-particle-associated PAHs and metals on deciduous leaves. <i>Environmental Research</i> , 2006, 102, 272-282.	3.7	21

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73	Carbon Storage by Urban Soils in the United States. <i>Journal of Environmental Quality</i> , 2006, 35, 1566-1575.	1.0	339
74	A temporal analysis of urban forest carbon storage using remote sensing. <i>Remote Sensing of Environment</i> , 2006, 101, 277-282.	4.6	241
75	Tree mortality rates and tree population projections in Baltimore, Maryland, USA. <i>Urban Forestry and Urban Greening</i> , 2004, 2, 139-147.	2.3	157
76	Urban cover mapping using digital, high-spatial resolution aerial imagery. <i>Urban Ecosystems</i> , 2001, 5, 243-256.	1.1	96
77	Potential Effect of <i>Anoplophora glabripennis</i> (Coleoptera: Cerambycidae) on Urban Trees in the United States. <i>Journal of Economic Entomology</i> , 2001, 94, 116-122.	0.8	232
78	A modeling study of the impact of urban trees on ozone. <i>Atmospheric Environment</i> , 2000, 34, 1601-1613.	1.9	208
79	Understanding the Benefits and Costs of Urban Forest Ecosystems. , 2000, , 11-25.		31
80	Quantifying urban forest structure, function, and value: the Chicago Urban Forest Climate Project. <i>Urban Ecosystems</i> , 1997, 1, 49-61.	1.1	423
81	Measuring and analyzing urban tree cover. <i>Landscape and Urban Planning</i> , 1996, 36, 49-57.	3.4	286
82	Differences in Monterey pine pest populations in urban and natural forests. <i>Forest Ecology and Management</i> , 1992, 50, 133-144.	1.4	13
83	URBAN PARK TREE INVENTORIES. <i>Arboricultural Journal</i> , 1989, 13, 345-361.	0.3	10