

David J Nowak

List of Publications by Year in descending order

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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	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
2	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
3	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
4	Modeled PM _{2.5} removal by trees in ten U.S. cities and associated health effects. <i>Environmental Pollution</i> , 2013, 178, 395-402.	3.7	465
5	Quantifying urban forest structure, function, and value: the Chicago Urban Forest Climate Project. <i>Urban Ecosystems</i> , 1997, 1, 49-61.	1.1	423
6	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
7	Spatial heterogeneity and air pollution removal by an urban forest. <i>Landscape and Urban Planning</i> , 2009, 90, 102-110.	3.4	385
8	Carbon Storage by Urban Soils in the United States. <i>Journal of Environmental Quality</i> , 2006, 35, 1566-1575.	1.0	339
9	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
10	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
11	Measuring and analyzing urban tree cover. <i>Landscape and Urban Planning</i> , 1996, 36, 49-57.	3.4	286
12	A temporal analysis of urban forest carbon storage using remote sensing. <i>Remote Sensing of Environment</i> , 2006, 101, 277-282.	4.6	241
13	Tree and impervious cover change in U.S. cities. <i>Urban Forestry and Urban Greening</i> , 2012, 11, 21-30.	2.3	233
14	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
15	A modeling study of the impact of urban trees on ozone. <i>Atmospheric Environment</i> , 2000, 34, 1601-1613.	1.9	208
16	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
17	Mechanistic Simulation of Tree Effects in an Urban Water Balance Model. <i>Journal of the American Water Resources Association</i> , 2008, 44, 75-85.	1.0	139
18	Institutionalizing urban forestry as a "biotechnology" to improve environmental quality. <i>Urban Forestry and Urban Greening</i> , 2006, 5, 93-100.	2.3	127

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19	Declining urban and community tree cover in the United States. <i>Urban Forestry and Urban Greening</i> , 2018, 32, 32-55.	2.3	122
20	Tree and impervious cover in the United States. <i>Landscape and Urban Planning</i> , 2012, 107, 21-30.	3.4	111
21	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
22	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
23	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
24	Urban cover mapping using digital, high-spatial resolution aerial imagery. <i>Urban Ecosystems</i> , 2001, 5, 243-256.	1.1	96
25	Urban forest structure, ecosystem services and change in Syracuse, NY. <i>Urban Ecosystems</i> , 2016, 19, 1455-1477.	1.1	94
26	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
27	US Urban Forest Statistics, Values, and Projections. <i>Journal of Forestry</i> , 2018, 116, 164-177.	0.5	83
28	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
29	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
30	Urban vacant land typology: A tool for managing urban vacant land. <i>Sustainable Cities and Society</i> , 2018, 36, 144-156.	5.1	75
31	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
32	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
33	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
34	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
35	Effects of Urbanization on Tree Species Functional Diversity in Eastern North America. <i>Ecosystems</i> , 2013, 16, 1487-1497.	1.6	51
36	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

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37	The tree cover and temperature disparity in US urbanized areas: Quantifying the association with income across 5,723 communities. PLoS ONE, 2021, 16, e0249715.	1.1	47
38	Using urban forest assessment tools to model bird habitat potential. Landscape and Urban Planning, 2014, 122, 29-40.	3.4	45
39	Residential building energy conservation and avoided power plant emissions by urban and community trees in the United States. Urban Forestry and Urban Greening, 2017, 21, 158-165.	2.3	44
40	Science and Society: The Role of Long-Term Studies in Environmental Stewardship. BioScience, 2012, 62, 354-366.	2.2	42
41	The compositional similarity of urban forests among the world's cities is scale dependent. Global Ecology and Biogeography, 2015, 24, 1413-1423.	2.7	42
42	Present and future ecosystem services of trees in the Bronx, NY. Urban Forestry and Urban Greening, 2019, 42, 10-20.	2.3	41
43	A conceptual framework of urban forest ecosystem vulnerability. Environmental Reviews, 2017, 25, 115-126.	2.1	40
44	Forecasting Urban Forest Ecosystem Structure, Function, and Vulnerability. Environmental Management, 2017, 59, 373-392.	1.2	37
45	Testing ecosystem accounting in the United States: A case study for the Southeast. Ecosystem Services, 2020, 43, 101099.	2.3	36
46	Comparing i-Tree Eco Estimates of Particulate Matter Deposition with Leaf and Canopy Measurements in an Urban Mediterranean Holm Oak Forest. Environmental Science & Technology, 2021, 55, 6613-6622.	4.6	35
47	A single tree model to consistently simulate cooling, shading, and pollution uptake of urban trees. International Journal of Biometeorology, 2021, 65, 277-289.	1.3	33
48	The disparity in tree cover and ecosystem service values among redlining classes in the United States. Landscape and Urban Planning, 2022, 221, 104370.	3.4	32
49	Annual biomass loss and potential value of urban tree waste in the United States. Urban Forestry and Urban Greening, 2019, 46, 126469.	2.3	31
50	Understanding the Benefits and Costs of Urban Forest Ecosystems. , 2000, , 11-25.		31
51	Quantifying the stormwater runoff volume reduction benefits of urban street tree canopy. Science of the Total Environment, 2022, 806, 151296.	3.9	28
52	Modeling of urban trees' effects on reducing human exposure to UV radiation in Seoul, Korea. Urban Forestry and Urban Greening, 2014, 13, 785-792.	2.3	27
53	Removal of Ozone by Urban and Peri-Urban Forests: Evidence from Laboratory, Field, and Modeling Approaches. Journal of Environmental Quality, 2016, 45, 224-233.	1.0	26
54	Differential organization of taxonomic and functional diversity in an urban woody plant metacommunity. Applied Vegetation Science, 2017, 20, 7-17.	0.9	23

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55	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
56	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
57	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
58	Assessing macro-scale patterns in urban tree canopy and inequality. <i>Urban Forestry and Urban Greening</i> , 2020, 55, 126818.	2.3	18
59	DBH Distributions in America's Urban Forests: An Overview of Structural Diversity. <i>Forests</i> , 2020, 11, 135.	0.9	18
60	Modeling lives saved from extreme heat by urban tree cover. <i>Ecological Modelling</i> , 2021, 449, 109553.	1.2	17
61	iTree-Hydro: Snow Hydrology Update For The Urban Forest Hydrology Model. <i>Journal of the American Water Resources Association</i> , 2011, 47, 1211-1218.	1.0	15
62	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
63	The hidden value of trees: Quantifying the ecosystem services of tree lineages and their major threats across the contiguous US. , 2022, 1, e0000010.		14
64	Differences in Monterey pine pest populations in urban and natural forests. <i>Forest Ecology and Management</i> , 1992, 50, 133-144.	1.4	13
65	Ecosystem Service-Based Sensitivity Analyses of i-Tree Eco. <i>Arboriculture and Urban Forestry</i> , 2020, 46, 287-306.	0.2	13
66	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
67	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
68	Valuing Urban Tree Impacts on Precipitation Partitioning. , 2020, , 253-268.		11
69	URBAN PARK TREE INVENTORIES. <i>Arboricultural Journal</i> , 1989, 13, 345-361.	0.3	10
70	Variations in urban forest allergy potential among cities and land uses. <i>Urban Forestry and Urban Greening</i> , 2021, 63, 127224.	2.3	10
71	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
72	Remoción de contaminantes atmosféricos por el bosque urbano en el valle de Aburrá. <i>Colombia Forestal</i> , 2019, 22, 5-16.	0.5	9

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73	Crown width models for woody plant species growing in urban areas of the U.S.. Urban Ecosystems, 2020, 23, 905-917.	1.1	9
74	Urban Planning Insights from Tree Inventories and Their Regulating Ecosystem Services Assessment. Sustainability, 2022, 14, 1684.	1.6	9
75	i-Tree cool river: An open source, freeware tool to simulate river water temperature coupled with HEC-RAS. MethodsX, 2020, 7, 100808.	0.7	7
76	Prioritizing the provision of urban ecosystem services in deprived areas, a question of environmental justice. Ambio, 2021, 50, 1035-1046.	2.8	7
77	Strategic National Urban Forest Inventory for the United States. Journal of Forestry, 2021, 119, 86-95.	0.5	5
78	Modeling the Potential Dispersal of Asian Longhorned Beetle Using Circuit Theory. Professional Geographer, 2019, 71, 580-594.	1.0	4
79	Application of advection-diffusion routing model to flood wave propagation: A case study on Big Piney River, Missouri USA. Journal of Earth Science (Wuhan, China), 2016, 27, 9-14.	1.1	3
80	Potential Hurricane Wind Risk to US Rural and Urban Forests. Journal of Forestry, 2021, 119, 393-406.	0.5	3
81	Assessing Urban Forest Threats across the Conterminous United States. Journal of Forestry, 2022, 120, 676-692.	0.5	3
82	Urban metabolism in Syracuse, NY – introduction. Urban Ecosystems, 2016, 19, 1419-1420.	1.1	0
83	Regulating Ecosystem Services – Forests and Climate Regulation. , 2021, , .		0