

Diane E Pataki

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

10,693
citations

47006

47
h-index

38395

95
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123
all docs

123
docs citations

123
times ranked

11595
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing climate risk to support urban forests in a changing climate. <i>Plants People Planet</i> , 2022, 4, 201-213.	3.3	13
2	A multi-city urban atmospheric greenhouse gas measurement data synthesis. <i>Scientific Data</i> , 2022, 9, .	5.3	5
3	Using LiDAR to assess transitions in riparian vegetation structure along a rural-to-urban land use gradient in western North America. <i>Ecohydrology</i> , 2021, 14, .	2.4	4
4	Effects of vegetation on the spatial and temporal variation of microclimate in the urbanized Salt Lake Valley. <i>Agricultural and Forest Meteorology</i> , 2021, 296, 108211.	4.8	27
5	Water Smart Cities Increase Irrigation to Provide Cool Refuge in a Climate Crisis. <i>Earth's Future</i> , 2021, 9, e2020EF001806.	6.3	12
6	The Benefits and Limits of Urban Tree Planting for Environmental and Human Health. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	83
7	Ethical considerations of urban ecological design and planning experiments. <i>Plants People Planet</i> , 2021, 3, 737-746.	3.3	2
8	Integrating solutions to adapt cities for climate change. <i>Lancet Planetary Health</i> , The, 2021, 5, e479-e486.	11.4	70
9	Incorporating human behaviors into theories of urban community assembly and species coexistence. <i>Oikos</i> , 2021, 130, 1849-1864.	2.7	19
10	The Wasatch Environmental Observatory: A mountain to urban research network in the semi-arid western US. <i>Hydrological Processes</i> , 2021, 35, e14352.	2.6	2
11	Plant biodiversity in residential yards is influenced by people's preferences for variety but limited by their income. <i>Landscape and Urban Planning</i> , 2021, 214, 104149.	7.5	10
12	Urban plant diversity in Los Angeles, California: Species and functional type turnover in cultivated landscapes. <i>Plants People Planet</i> , 2020, 2, 144-156.	3.3	35
13	Urban soil carbon and nitrogen converge at a continental scale. <i>Ecological Monographs</i> , 2020, 90, e01401.	5.4	32
14	Linking yard plant diversity to homeowners' landscaping priorities across the U.S. <i>Landscape and Urban Planning</i> , 2020, 196, 103730.	7.5	23
15	The COVID-19 lockdowns: a window into the Earth System. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 470-481.	29.7	153
16	Homogenization of the terrestrial water cycle. <i>Nature Geoscience</i> , 2020, 13, 656-658.	12.9	242
17	How the Nonhuman World Influences Homeowner Yard Management in the American Residential Macrosystem. <i>Human Ecology</i> , 2020, 48, 347-356.	1.4	6
18	Advancing ecohydrology in the 21st century: A convergence of opportunities. <i>Ecohydrology</i> , 2020, 13, e2208.	2.4	34

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19	Spatiotemporal variability in water sources of urban soils and trees in the semiarid, irrigated Salt Lake Valley. <i>Ecohydrology</i> , 2019, 12, e2154.	2.4	17
20	Vehicle emissions and fertilizer impact the leaf chemistry of urban trees in Salt Lake Valley, UT. <i>Environmental Pollution</i> , 2019, 254, 112984.	7.5	17
21	Evaluating the effects of turf-replacement programs in Los Angeles. <i>Landscape and Urban Planning</i> , 2019, 185, 210-221.	7.5	31
22	Climate and lawn management interact to control C4 plant distribution in residential lawns across seven U.S. cities. <i>Ecological Applications</i> , 2019, 29, e01884.	3.8	8
23	Urban trees, air quality, and asthma: An interdisciplinary review. <i>Landscape and Urban Planning</i> , 2019, 187, 47-59.	7.5	166
24	THIRTY-NINE. <i>Urban Ecosystems.</i> , 2019, , 885-896.		0
25	Drivers of plant species richness and phylogenetic composition in urban yards at the continental scale. <i>Landscape Ecology</i> , 2019, 34, 63-77.	4.2	31
26	Adapting Urban Water Systems to Manage Scarcity in the 21st Century: The Case of Los Angeles. <i>Environmental Management</i> , 2019, 63, 293-308.	2.7	17
27	On the Definition of Cultivated Ecology. <i>Philosophical Topics</i> , 2019, 47, 181-201.	0.3	1
28	Long-term urban carbon dioxide observations reveal spatial and temporal dynamics related to urban characteristics and growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2912-2917.	7.1	120
29	Biodiverse cities: the nursery industry, homeowners, and neighborhood differences drive urban tree composition. <i>Ecological Monographs</i> , 2018, 88, 259-276.	5.4	111
30	Homogenization of plant diversity, composition, and structure in North American urban yards. <i>Ecosphere</i> , 2018, 9, e02105.	2.2	68
31	Human and biophysical legacies shape contemporary urban forests: A literature synthesis. <i>Urban Forestry and Urban Greening</i> , 2018, 31, 157-168.	5.3	141
32	Housing Age and Affluence Influence Plant and Soil Nitrogen and Carbon Cycles in Two Semiarid Cities. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3178-3192.	3.0	4
33	The economic value of local water supplies in Los Angeles. <i>Nature Sustainability</i> , 2018, 1, 289-297.	23.7	29
34	A multi-city comparison of front and backyard differences in plant species diversity and nitrogen cycling in residential landscapes. <i>Landscape and Urban Planning</i> , 2018, 178, 102-111.	7.5	20
35	Sediment chemistry of urban stormwater ponds and controls on denitrification. <i>Ecosphere</i> , 2018, 9, e02318.	2.2	22
36	Soil carbon and nitrogen accumulation in residential lawns of the Salt Lake Valley, Utah. <i>Oecologia</i> , 2018, 187, 1107-1118.	2.0	22

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37	Evapotranspiration and water yield of a pineâ€broadleaf forest are not altered by longâ€term atmospheric [CO ₂] enrichment under native or enhanced soil fertility. <i>Global Change Biology</i> , 2018, 24, 4841-4856.	9.5	16
38	CO2 and Carbon Emissions from Cities: Linkages to Air Quality, Socioeconomic Activity, and Stakeholders in the Salt Lake City Urban Area. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 2325-2339.	3.3	41
39	Ecological homogenization of residential macrosystems. <i>Nature Ecology and Evolution</i> , 2017, 1, 191.	7.8	69
40	Systems Analysis and Optimization of Local Water Supplies in Los Angeles. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, .	2.6	22
41	Evapotranspiration of urban landscapes in Los Angeles, California at the municipal scale. <i>Water Resources Research</i> , 2017, 53, 4236-4252.	4.2	56
42	Continental-scale homogenization of residential lawn plant communities. <i>Landscape and Urban Planning</i> , 2017, 165, 54-63.	7.5	82
43	Predicting tree species richness in urban forests. <i>Urban Ecosystems</i> , 2017, 20, 839-849.	2.4	20
44	Does vapor pressure deficit drive the seasonality of $\delta^{13}C$ of the net landâ€atmosphere CO ₂ exchange across the United States?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 1969-1987.	3.0	3
45	Moving Towards a New Urban Systems Science. <i>Ecosystems</i> , 2017, 20, 38-43.	3.4	63
46	A method for estimating transpiration of irrigated urban trees in California. <i>Landscape and Urban Planning</i> , 2017, 158, 48-61.	7.5	38
47	Plant nitrogen concentration and isotopic composition in residential lawns across seven US cities. <i>Oecologia</i> , 2016, 181, 271-285.	2.0	29
48	Convergence of microclimate in residential landscapes across diverse cities in the United States. <i>Landscape Ecology</i> , 2016, 31, 101-117.	4.2	78
49	Climate tolerances and trait choices shape continental patterns of urban tree biodiversity. <i>Global Ecology and Biogeography</i> , 2016, 25, 1367-1376.	5.8	64
50	Evapotranspiration of urban lawns in a semi-arid environment: An in situ evaluation of microclimatic conditions and watering recommendations. <i>Journal of Arid Environments</i> , 2016, 134, 87-96.	2.4	50
51	Satisfaction, water and fertilizer use in the American residential macrosystem. <i>Environmental Research Letters</i> , 2016, 11, 034004.	5.2	26
52	Ecosystem services in managing residential landscapes: priorities, value dimensions, and cross-regional patterns. <i>Urban Ecosystems</i> , 2016, 19, 95-113.	2.4	93
53	iSAW: Integrating Structure, Actors, and Water to study socioâ€hydroâ€ecological systems. <i>Earth's Future</i> , 2015, 3, 110-132.	6.3	31
54	Grand challenges in urban ecology. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	53

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55	Tree diversity in southern California's urban forest: the interacting roles of social and environmental variables. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	63
56	Trees Grow on Money: Urban Tree Canopy Cover and Environmental Justice. <i>PLoS ONE</i> , 2015, 10, e0122051.	2.5	329
57	Threats of future climate change and land use to vulnerable tree species native to Southern California. <i>Environmental Conservation</i> , 2015, 42, 127-138.	1.3	10
58	Understanding preferences for tree attributes: the relative effects of socio-economic and local environmental factors. <i>Urban Ecosystems</i> , 2015, 18, 73-86.	2.4	84
59	Adding trees to irrigated turfgrass lawns may be a water-saving measure in semi-arid environments. <i>Ecohydrology</i> , 2014, 7, 1314-1330.	2.4	34
60	Assessing the homogenization of urban land management with an application to US residential lawn care. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4432-4437.	7.1	164
61	Ecological homogenization of urban USA. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 74-81.	4.0	343
62	Urban ecology: advancing science and society. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 574-581.	4.0	60
63	Response to authors' reply regarding "Modeled PM2.5 removal by trees in ten U.S. cities and associated health effects" by Nowak et al. (2013). <i>Environmental Pollution</i> , 2014, 191, 258-259.	7.5	12
64	Nitrogen budgets of urban lawns under three different management regimes in southern California. <i>Biogeochemistry</i> , 2014, 121, 127-148.	3.5	22
65	Convergent Surface Water Distributions in U.S. Cities. <i>Ecosystems</i> , 2014, 17, 685-697.	3.4	56
66	A comparative study of the water budgets of lawns under three management scenarios. <i>Urban Ecosystems</i> , 2014, 17, 1095-1117.	2.4	21
67	Comments on "Modeled PM2.5 removal by trees in ten U.S. cities and associated health effects" by Nowak et al. (2013). <i>Environmental Pollution</i> , 2014, 191, 256.	7.5	15
68	The evolution of tree nursery offerings in Los Angeles County over the last 110 years. <i>Landscape and Urban Planning</i> , 2013, 118, 10-17.	7.5	44
69	Urban greening needs better data. <i>Nature</i> , 2013, 502, 624-624.	27.8	26
70	A trait-based ecology of the Los Angeles urban forest. <i>Ecosphere</i> , 2013, 4, 1-20.	2.2	53
71	Urban tree planting programs, function or fashion? Los Angeles and urban tree planting campaigns. <i>Geo Journal</i> , 2013, 78, 475-493.	3.1	114
72	Urban vegetation and income segregation in drylands: a synthesis of seven metropolitan regions in the southwestern United States. <i>Environmental Research Letters</i> , 2013, 8, 044001.	5.2	54

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73	Increasing summer river discharge in southern California, USA, linked to urbanization. <i>Geophysical Research Letters</i> , 2013, 40, 4643-4647.	4.0	36
74	Transpiration sensitivity of urban trees in a semi-arid climate is constrained by xylem vulnerability to cavitation. <i>Tree Physiology</i> , 2012, 32, 373-388.	3.1	80
75	Isotopic measurements of atmospheric methane in Los Angeles, California, USA: Influence of "fugitive" fossil fuel emissions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	95
76	The radiocarbon composition of tree rings as a tracer of local fossil fuel emissions in the Los Angeles basin: 1980-2008. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
77	A time series of urban forestry in Los Angeles. <i>Urban Ecosystems</i> , 2012, 15, 233-246.	2.4	34
78	Water sources of urban trees in the Los Angeles metropolitan area. <i>Urban Ecosystems</i> , 2012, 15, 195-214.	2.4	52
79	Do arid species use less water than mesic species in an irrigated common garden?. <i>Urban Ecosystems</i> , 2012, 15, 215-232.	2.4	8
80	Drivers of spatial variability in urban plant and soil isotopic composition in the Los Angeles basin. <i>Plant and Soil</i> , 2012, 350, 323-338.	3.7	16
81	Greenhouse Gas Emissions from Global Cities. <i>Environmental Science & Technology</i> , 2011, 45, 3816-3817.	10.0	16
82	Coupling biogeochemical cycles in urban environments: ecosystem services, green solutions, and misconceptions. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 27-36.	4.0	656
83	Nitrous oxide emissions and isotopic composition in urban and agricultural systems in southern California. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	41
84	A synthesis of current knowledge on forests and carbon storage in the United States. , 2011, 21, 1902-1924.		354
85	Nitrous Oxide Emissions from Wastewater Treatment and Water Reclamation Plants in Southern California. <i>Journal of Environmental Quality</i> , 2011, 40, 1542-1550.	2.0	34
86	Transpiration of urban forests in the Los Angeles metropolitan area. , 2011, 21, 661-677.		223
87	Water relations of coast redwood planted in the semi-arid climate of southern California. <i>Plant, Cell and Environment</i> , 2011, 34, 1384-1400.	5.7	26
88	The application of $\delta^{18}\text{O}$ and $\delta^2\text{H}$ for understanding water pools and fluxes in a <i>Typha</i> marsh. <i>Plant, Cell and Environment</i> , 2011, 34, 1761-1775.	5.7	10
89	Ecosystem effects of groundwater depth in Owens Valley, California. <i>Ecohydrology</i> , 2011, 4, 458-468.	2.4	18
90	Socio-ecohydrology and the urban water challenge. <i>Ecohydrology</i> , 2011, 4, 341-347.	2.4	88

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91	Plant water-use efficiency as a metric of urban ecosystem services. , 2011, 21, 3115-3127.		62
92	Spatial patterns of plant isotope tracers in the Los Angeles urban region. Landscape Ecology, 2010, 25, 35-52.	4.2	48
93	Drivers of variability in water use of native and non-native urban trees in the greater Los Angeles area. Urban Ecosystems, 2010, 13, 393-414.	2.4	79
94	Seasonal variations in plant nitrogen relations and photosynthesis along a grassland to shrubland gradient in Owens Valley, California. Plant and Soil, 2010, 327, 213-223.	3.7	18
95	Methodology for inventorying greenhouse gas emissions from global cities. Energy Policy, 2010, 38, 4828-4837.	8.8	386
96	A comparison of tracer methods for quantifying CO ₂ sources in an urban region. Journal of Geophysical Research, 2010, 115, .	3.3	63
97	The Carbon Isotope Composition of Plants and Soils as Biomarkers of Pollution. , 2010, , 407-423.		15
98	Greenhouse Gas Emissions from Global Cities. Environmental Science & Technology, 2009, 43, 7297-7302.	10.0	581
99	Badro, Brodsky, and Pataki Receive 2008 James B. Macelwane Medals. Eos, 2009, 90, 84-85.	0.1	0
100	Wood anatomy constrains stomatal responses to atmospheric vapor pressure deficit in irrigated, urban trees. Oecologia, 2008, 156, 13-20.	2.0	101
101	Carbon isotopes in terrestrial ecosystem pools and CO ₂ fluxes. New Phytologist, 2008, 178, 24-40.	7.3	444
102	Effects of temperature and fertilization on nitrogen cycling and community composition of an urban lawn. Global Change Biology, 2008, 14, 2119-2131.	9.5	107
103	The changing landscape: ecosystem responses to urbanization and pollution across climatic and societal gradients. Frontiers in Ecology and the Environment, 2008, 6, 264-272.	4.0	597
104	Protecting climate with forests. Environmental Research Letters, 2008, 3, 044006.	5.2	313
105	Research needs for finely resolved fossil carbon emissions. Eos, 2007, 88, 542-543.	0.1	19
106	Effects of Urban Land-Use Change on Biogeochemical Cycles. , 2007, , 45-58.		55
107	Insights from Stable Isotopes on the Role of Terrestrial Ecosystems in the Global Carbon Cycle. , 2007, , 37-44.		5
108	Saturation of the Terrestrial Carbon Sink. , 2007, , 59-78.		97

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109	Emerging topics in stable isotope ecology: are there isotope effects in plant respiration?. <i>New Phytologist</i> , 2005, 167, 321-323.	7.3	22
110	Stable Isotopes as a Tool in Urban Ecology. , 2005, , 199-214.		14
111	Progressive Nitrogen Limitation of Ecosystem Responses to Rising Atmospheric Carbon Dioxide. <i>BioScience</i> , 2004, 54, 731.	4.9	1,092
112	Critical evaluation of micrometeorological methods for measuring ecosystemâ€™atmosphere isotopic exchange of CO ₂ . <i>Agricultural and Forest Meteorology</i> , 2003, 116, 159-179.	4.8	66
113	Tracing Changes in Ecosystem Function under Elevated Carbon Dioxide Conditions. <i>BioScience</i> , 2003, 53, 805.	4.9	60
114	Atmospheric CO ₂ , climate and evolution â€™ lessons from the past. <i>New Phytologist</i> , 2002, 154, 10-12.	7.3	6
115	Transpiration in response to variation in microclimate and soil moisture in southeastern deciduous forests. <i>Oecologia</i> , 2001, 127, 549-559.	2.0	229
116	SAP FLUX OF CO-OCCURRING SPECIES IN A WESTERN SUBALPINE FOREST DURING SEASONAL SOIL DROUGHT. <i>Ecology</i> , 2000, 81, 2557-2566.	3.2	154
117	Elevated carbon dioxide does not affect average canopy stomatal conductance of <i>Pinus taeda</i> L.. <i>Oecologia</i> , 1998, 117, 47-52.	2.0	48
118	Scaling xylem sap flux and soil water balance and calculating variance: a method for partitioning water flux in forests. <i>Annales Des Sciences ForestiÃƒres</i> , 1998, 55, 191-216.	1.2	208
119	Soil water depletion by oak trees and the influence of root water uptake on the moisture content spatial statistics. <i>Water Resources Research</i> , 1997, 33, 611-623.	4.2	64