

Ruth D Yanai

List of Publications by Year in descending order

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Version: 2024-02-01

99
papers

6,136
citations

94433

37
h-index

74163

75
g-index

100
all docs

100
docs citations

100
times ranked

8037
citing authors

#	ARTICLE	IF	CITATIONS
1	Fine Root Growth Increases in Response to Nitrogen Addition in Phosphorus-limited Northern Hardwood Forests. <i>Ecosystems</i> , 2022, 25, 1589-1600.	3.4	6
2	Length and colonization rates of roots associated with arbuscular or ectomycorrhizal fungi decline differentially with depth in two northern hardwood forests. <i>Mycorrhiza</i> , 2022, 32, 213.	2.8	2
3	Foliar nutrient concentrations of six northern hardwood species responded to nitrogen and phosphorus fertilization but did not predict tree growth. <i>PeerJ</i> , 2022, 10, e13193.	2.0	8
4	N and P constrain C in ecosystems under climate change: Role of nutrient redistribution, accumulation, and stoichiometry. <i>Ecological Applications</i> , 2022, 32, .	3.8	8
5	The current state of uncertainty reporting in ecosystem studies: a systematic evaluation of peer-reviewed literature. <i>Ecosphere</i> , 2021, 12, e03535.	2.2	9
6	Spatial patterns and temporal trends in mercury concentrations in common loons (<i>Gavia immer</i>) from 1998 to 2016 in New York's Adirondack Park: has this top predator benefitted from mercury emission controls?. <i>Ecotoxicology</i> , 2020, 29, 1774-1785.	2.4	7
7	Determining optimal sampling strategies for monitoring mercury and reproductive success in common loons in the Adirondacks of New York. <i>Ecotoxicology</i> , 2020, 29, 1786-1793.	2.4	4
8	TRY plant trait database – enhanced coverage and open access. <i>Global Change Biology</i> , 2020, 26, 119-188.	9.5	1,038
9	New Approaches to Understand Mercury in Trees: Radial and Longitudinal Patterns of Mercury in Tree Rings and Genetic Control of Mercury in Maple Sap. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	13
10	Improving uncertainty in forest carbon accounting for REDD+ mitigation efforts. <i>Environmental Research Letters</i> , 2020, 15, 124002.	5.2	23
11	Quantifying uncertainty in annual runoff due to missing data. <i>PeerJ</i> , 2020, 8, e9531.	2.0	6
12	Climate change may alter mercury fluxes in northern hardwood forests. <i>Biogeochemistry</i> , 2019, 146, 1-16.	3.5	18
13	Shifting N and P concentrations and stoichiometry during autumn litterfall: Implications for ecosystem monitoring. <i>Ecological Indicators</i> , 2019, 103, 488-492.	6.3	9
14	Nitrogen-phosphorous interactions in young northern hardwoods indicate P limitation: foliar concentrations and resorption in a factorial N by P addition experiment. <i>Oecologia</i> , 2019, 189, 829-840.	2.0	24
15	Estimating uncertainty in the volume and carbon storage of downed coarse woody debris. <i>Ecological Applications</i> , 2019, 29, e01844.	3.8	51
16	Current Practices in Reporting Uncertainty in Ecosystem Ecology. <i>Ecosystems</i> , 2018, 21, 971-981.	3.4	13
17	Nutrient concentrations of roots vary with diameter, depth, and site in New Hampshire northern hardwoods. <i>Canadian Journal of Forest Research</i> , 2018, 48, 32-41.	1.7	0
18	Phosphorus limitation of aboveground production in northern hardwood forests. <i>Ecology</i> , 2018, 99, 438-449.	3.2	65

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19	Downsizing a long-term precipitation network: Using a quantitative approach to inform difficult decisions. <i>PLoS ONE</i> , 2018, 13, e0195966.	2.5	6
20	Concentrations and content of mercury in bark, wood, and leaves in hardwoods and conifers in four forested sites in the northeastern USA. <i>PLoS ONE</i> , 2018, 13, e0196293.	2.5	22
21	Measuring mercury in wood: challenging but important. <i>International Journal of Environmental Analytical Chemistry</i> , 2017, 97, 456-467.	3.3	22
22	Sampling effort and uncertainty in leaf litterfall mass and nutrient flux in northern hardwood forests. <i>Ecosphere</i> , 2017, 8, e01999.	2.2	10
23	Approaches to stream solute load estimation for solutes with varying dynamics from five diverse small watersheds. <i>Ecosphere</i> , 2016, 7, e01298.	2.2	42
24	Uncertainty in the net hydrologic flux of calcium in a paired watershed harvesting study. <i>Ecosphere</i> , 2016, 7, e01299.	2.2	11
25	Sources of variability in tissue chemistry in northern hardwood species. <i>Canadian Journal of Forest Research</i> , 2016, 46, 285-296.	1.7	9
26	Response of forest soil respiration to nutrient addition depends on site fertility. <i>Biogeochemistry</i> , 2016, 127, 113-124.	3.5	15
27	Sources of uncertainty in estimating stream solute export from headwater catchments at three sites. <i>Hydrological Processes</i> , 2015, 29, 1793-1805.	2.6	26
28	Landscape and Individual Tree Predictors of Dark Heart Size in Sugar Maple. <i>Journal of Forestry</i> , 2015, 113, 20-29.	1.0	5
29	Soil nutrients affect sweetness of sugar maple sap. <i>Forest Ecology and Management</i> , 2015, 341, 30-36.	3.2	12
30	Soil Nitrogen Availability Affects Belowground Carbon Allocation and Soil Respiration in Northern Hardwood Forests of New Hampshire. <i>Ecosystems</i> , 2015, 18, 1179-1191.	3.4	44
31	BAAD: a Biomass And Allometry Database for woody plants. <i>Ecology</i> , 2015, 96, 1445-1445.	3.2	122
32	Soil nitrogen affects phosphorus recycling: foliar resorption and plant-soil feedbacks in a northern hardwood forest. <i>Ecology</i> , 2015, 96, 2488-2498.	3.2	88
33	Abiotic and Biotic Factors Influencing Sugar Maple Health: Soils, Topography, Climate, and Defoliation. <i>Soil Science Society of America Journal</i> , 2014, 78, 2061-2070.	2.2	3
34	Rates of sustainable forest harvest depend on rotation length and weathering of soil minerals. <i>Forest Ecology and Management</i> , 2014, 318, 194-205.	3.2	63
35	Synergistic soil response to nitrogen plus phosphorus fertilization in hardwood forests. <i>Biogeochemistry</i> , 2014, 118, 195-204.	3.5	45
36	Evaluating the efficiency of environmental monitoring programs. <i>Ecological Indicators</i> , 2014, 39, 94-101.	6.3	47

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37	From Missing Source to Missing Sink: Long-Term Changes in the Nitrogen Budget of a Northern Hardwood Forest. <i>Environmental Science & Technology</i> , 2013, 47, 11440-11448.	10.0	76
38	Foliar Nutrient Concentrations Related to Soil Sources across a Range of Sites in the Northeastern United States. <i>Soil Science Society of America Journal</i> , 2012, 76, 674-683.	2.2	17
39	The Quantitative Soil Pit Method for Measuring Belowground Carbon and Nitrogen Stocks. <i>Soil Science Society of America Journal</i> , 2012, 76, 2241-2255.	2.2	33
40	Assessing the Suitability of Rotary Coring for Sampling in Rocky Soils. <i>Soil Science Society of America Journal</i> , 2012, 76, 1707-1718.	2.2	11
41	Quantifying Uncertainty in Forest Nutrient Budgets. <i>Journal of Forestry</i> , 2012, 110, 448-456.	1.0	28
42	Variation in mass and nutrient concentration of leaf litter across years and sites in a northern hardwood forest. <i>Canadian Journal of Forest Research</i> , 2012, 42, 1597-1610.	1.7	26
43	Determination of foliar Ca/Sr discrimination factors for six tree species and implications for Ca sources in northern hardwood forests. <i>Plant and Soil</i> , 2012, 356, 303-314.	3.7	17
44	Minimizing nutrient leaching and improving nutrient use efficiency of <i>Liriodendron tulipifera</i> and <i>Larix laricina</i> in a container nursery system. <i>New Forests</i> , 2012, 43, 57-68.	1.7	14
45	Comparing selection system and diameter-limit cutting in uneven-aged northern hardwoods using computer simulation. <i>Canadian Journal of Forest Research</i> , 2011, 41, 963-973.	1.7	12
46	Estimating uncertainties in watershed studies. <i>Eos</i> , 2011, 92, 220-220.	0.1	1
47	Allometric equations for young northern hardwoods: the importance of age-specific equations for estimating aboveground biomass. <i>Canadian Journal of Forest Research</i> , 2011, 41, 881-891.	1.7	59
48	Growing-Space Relationships in Young Even-Aged Northern Hardwood Stands Based on Individual-Tree and Plot-Level Measurements. <i>Northern Journal of Applied Forestry</i> , 2011, 28, 27-35.	0.5	6
49	Estimating Uncertainty in Ecosystem Budget Calculations. <i>Ecosystems</i> , 2010, 13, 239-248.	3.4	76
50	Rapid, non-destructive carbon analysis of forest soils using neutron-induced gamma-ray spectroscopy. <i>Forest Ecology and Management</i> , 2010, 260, 1132-1137.	3.2	10
51	Forest fragmentation and duration of forest tent caterpillar (<i>Malacosoma disstria</i>) outbreaks in northern hardwood forests. <i>Forest Ecology and Management</i> , 2010, 260, 1193-1197.	3.2	17
52	A molecular approach to quantify root community composition in a northern hardwood forest – testing effects of root species, relative abundance, and diameter. <i>Canadian Journal of Forest Research</i> , 2010, 40, 836-841.	1.7	12
53	Similarity of nutrient uptake and root dimensions of Engelmann spruce and subalpine fir at two contrasting sites in Colorado. <i>Forest Ecology and Management</i> , 2009, 258, 2233-2241.	3.2	15
54	Nutrient concentrations in roots, leaves and wood of seedling and mature sugar maple and American beech at two contrasting sites. <i>Forest Ecology and Management</i> , 2009, 258, 1153-1160.	3.2	32

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55	Use of foliar Ca/Sr discrimination and $^{87}\text{Sr}/^{86}\text{Sr}$ ratios to determine soil Ca sources to sugar maple foliage in a northern hardwood forest. <i>Biogeochemistry</i> , 2008, 87, 287-296.	3.5	42
56	Fine Root Dynamics and Forest Production Across a Calcium Gradient in Northern Hardwood and Conifer Ecosystems. <i>Ecosystems</i> , 2008, 11, 325-341.	3.4	39
57	Nutrient uptake by intact and disturbed roots of loblolly pine seedlings. <i>Environmental and Experimental Botany</i> , 2008, 64, 15-20.	4.2	8
58	Nitrogen immobilization by wood-chip application: Protecting water quality in a northern hardwood forest. <i>Forest Ecology and Management</i> , 2008, 255, 2589-2601.	3.2	36
59	Identifying roots of northern hardwood species: patterns with diameter and depth. <i>Canadian Journal of Forest Research</i> , 2008, 38, 2862-2869.	1.7	32
60	Mineral Sources of Calcium and Phosphorus in Soils of the Northeastern United States. <i>Soil Science Society of America Journal</i> , 2008, 72, 1786-1794.	2.2	28
61	A sequential extraction to determine the distribution of apatite in granitoid soil mineral pools with application to weathering at the Hubbard Brook Experimental Forest, NH, USA. <i>Applied Geochemistry</i> , 2007, 22, 2406-2421.	3.0	60
62	Validation and refinement of allometric equations for roots of northern hardwoods. <i>Canadian Journal of Forest Research</i> , 2007, 37, 1777-1783.	1.7	20
63	Estimating Root Biomass in Rocky Soils using Pits, Cores, and Allometric Equations. <i>Soil Science Society of America Journal</i> , 2007, 71, 206-213.	2.2	53
64	Estimating nutrient uptake by mature tree roots under field conditions: challenges and opportunities. <i>Trees - Structure and Function</i> , 2007, 21, 593-603.	1.9	46
65	The vertical and horizontal distribution of roots in northern hardwood stands of varying age. <i>Canadian Journal of Forest Research</i> , 2006, 36, 450-459.	1.7	80
66	Changes in stream chemistry and nutrient export following a partial harvest in the Catskill Mountains, New York, USA. <i>Forest Ecology and Management</i> , 2006, 223, 103-112.	3.2	52
67	Measuring Nitrogen and Phosphorus Uptake by Intact Roots of Mature <i>Acer saccharum</i> Marsh., <i>Pinus resinosa</i> Ait., and <i>Picea abies</i> (L.) Karst. <i>Plant and Soil</i> , 2006, 279, 163-172.	3.7	12
68	Wood ash effects on plant and soil in a willow bioenergy plantation. <i>Biomass and Bioenergy</i> , 2005, 28, 355-365.	5.7	95
69	The Biogeochemistry of Carbon at Hubbard Brook. <i>Biogeochemistry</i> , 2005, 75, 109-176.	3.5	246
70	Temporal variation in nutrient uptake capacity by intact roots of mature loblolly pine. <i>Plant and Soil</i> , 2005, 272, 253-262.	3.7	24
71	Height Development of Upper-Canopy Trees Within Even-Aged Adirondack Northern Hardwood Stands. <i>Northern Journal of Applied Forestry</i> , 2004, 21, 117-122.	0.5	10
72	Lead Reduction and Redistribution in the Forest Floor in New Hampshire Northern Hardwoods. <i>Journal of Environmental Quality</i> , 2004, 33, 141-148.	2.0	19

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73	Wood Ash Effects on Soil Solution and Nutrient Budgets in A Willow Bioenergy Plantation. Water, Air, and Soil Pollution, 2004, 159, 209-224.	2.4	21
74	The Effects of AlCl ₃ Additions on Rhizosphere Soil and Fine Root Chemistry of Sugar Maple (Acer) Tj ETQq0 0 0 rgBTJ Overlock, 10 Tf 50 7	2.4	12
75	Lead Reduction and Redistribution in the Forest Floor in New Hampshire Northern Hardwoods. Journal of Environmental Quality, 2004, 33, 141.	2.0	2
76	Measured and modelled differences in nutrient concentrations between rhizosphere and bulk soil in a Norway spruce stand. Plant and Soil, 2003, 257, 133-142.	3.7	52
77	Biotic Control of Calcium Cycling in Northern Hardwood Forests: Acid Rain and Aging Forests. Ecosystems, 2003, 6, 399-406.	3.4	56
78	Soil Carbon Dynamics after Forest Harvest: An Ecosystem Paradigm Reconsidered. Ecosystems, 2003, 6, 197-212.	3.4	251
79	Detecting Change in Forest Floor Carbon. Soil Science Society of America Journal, 2003, 67, 1583-1593.	2.2	92
80	Processes Affecting Carbon Storage in the Forest Floor and in Downed Woody Debris. , 2002, , .		2
81	Estimating age-dependent costs and benefits of roots with contrasting life span: comparing apples and oranges. New Phytologist, 2001, 150, 685-695.	7.3	127
82	Building roots in a changing environment: implications for root longevity. New Phytologist, 2000, 147, 33-42.	7.3	725
83	Challenges of measuring forest floor organic matter dynamics:. Forest Ecology and Management, 2000, 138, 273-283.	3.2	147
84	Early cohort development following even-aged reproduction method cuttings in New York northern hardwoods. Canadian Journal of Forest Research, 2000, 30, 67-75.	1.7	9
85	ACCUMULATION AND DEPLETION OF BASE CATIONS IN FOREST FLOORS IN THE NORTHEASTERN UNITED STATES. Ecology, 1999, 80, 2774-2787.	3.2	82
86	Patterns of early cohort development following shelterwood cutting in three Adirondack northern hardwood stands. Forest Ecology and Management, 1999, 119, 1-11.	3.2	25
87	Forest floor microbial biomass across a northern hardwood successional sequence. Soil Biology and Biochemistry, 1999, 31, 431-439.	8.8	30
88	Woody understory response to changes in overstory density: thinning in Allegheny hardwoods. Forest Ecology and Management, 1998, 102, 45-60.	3.2	26
89	The effect of whole-tree harvest on phosphorus cycling in a northern hardwood forest. Forest Ecology and Management, 1998, 104, 281-295.	3.2	74
90	Modeling Nutrient Uptake as a Component of Loblolly Pine Response to Environmental Stress. Ecological Studies, 1998, , 293-304.	1.2	0

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91	The Ecology of Root Lifespan. <i>Advances in Ecological Research</i> , 1997, 27, 1-60.	2.7	658
92	Model transformation rules and model disaggregation. <i>Science of the Total Environment</i> , 1996, 183, 25-31.	8.0	3
93	Multi-dimensional sensitivity analysis and ecological implications of a nutrient uptake model. <i>Plant and Soil</i> , 1996, 180, 311-324.	3.7	59
94	Effects of stresses on forest growth in models applied to the Solling spruce site. <i>Ecological Modelling</i> , 1995, 83, 273-282.	2.5	12
95	Integrating the Effects of Simultaneous Multiple Stresses on Plants Using the Simulation Model TREGRO. <i>Journal of Environmental Quality</i> , 1994, 23, 418-428.	2.0	51
96	A Steady-State Model of Nutrient Uptake Accounting for Newly Grown Roots. <i>Soil Science Society of America Journal</i> , 1994, 58, 1562-1571.	2.2	66
97	Phosphorus budget of a 70-year-old northern hardwood forest. <i>Biogeochemistry</i> , 1992, 17, 1.	3.5	121
98	Soil Solution Phosphorus Dynamics in a Whole-Tree-Harvested Northern Hardwood Forest. <i>Soil Science Society of America Journal</i> , 1991, 55, 1746-1752.	2.2	35
99	Modeling changes in red spruce carbon balance and allocation in response to interacting ozone and nutrient stresses. <i>Tree Physiology</i> , 1991, 9, 127-146.	3.1	137