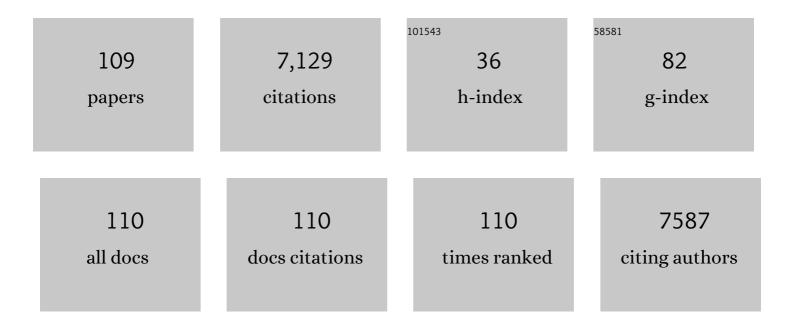
Charles T Garten

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Stable nitrogen isotope ratios in wet and dry nitrate deposition collected with an artificial tree. Tellus, Series B: Chemical and Physical Meteorology, 2022, 48, 60.	1.6	10
2	Timing and magnitude of C partitioning through a young loblolly pine (Pinus taeda L.) stand using 13C labeling and shade treatments. Tree Physiology, 2012, 32, 799-813.	3.1	38
3	Soil carbon and nitrogen cycling and storage throughout the soil profile in a sweetgum plantation after 11Âyears of CO ₂ â€enrichment. Global Change Biology, 2012, 18, 1684-1697.	9.5	74
4	Review and Model-Based Analysis of Factors Influencing Soil Carbon Sequestration Beneath Switchgrass (Panicum virgatum). Bioenergy Research, 2012, 5, 124-138.	3.9	13
5	Comparison of forest soil carbon dynamics at five sites along a latitudinal gradient. Geoderma, 2011, 167-168, 30-40.	5.1	34
6	Indicators to support environmental sustainability of bioenergy systems. Ecological Indicators, 2011, 11, 1277-1289.	6.3	186
7	Response of "Alamo―switchgrass tissue chemistry and biomass to nitrogen fertilization in West Tennessee, USA. Agriculture, Ecosystems and Environment, 2011, 140, 289-297.	5.3	42
8	Review and model-based analysis of factors influencing soil carbon sequestration under hybrid poplar. Biomass and Bioenergy, 2011, 35, 214-226.	5.7	48
9	Litterfall ¹⁵ N abundance indicates declining soil nitrogen availability in a free-air CO ₂ enrichment experiment. Ecology, 2011, 92, 133-139.	3.2	55
10	Intra-annual changes in biomass, carbon, and nitrogen dynamics at 4-year old switchgrass field trials in west Tennessee, USAâ~†. Agriculture, Ecosystems and Environment, 2010, 136, 177-184.	5.3	72
11	Characterization of Biochars Produced from Cornstovers for Soil Amendment. Environmental Science & Technology, 2010, 44, 7970-7974.	10.0	380
12	Soil moisture surpasses elevated CO2 and temperature as a control on soil carbon dynamics in a multi-factor climate change experiment. Plant and Soil, 2009, 319, 85-94.	3.7	86
13	Belowground fate of ¹⁵ N injected into sweetgum trees (<i>Liquidambar styraciflua</i>) at the ORNL FACE Experiment. Rapid Communications in Mass Spectrometry, 2009, 23, 3094-3100.	1.5	9
14	A disconnect between O horizon and mineral soil carbon – Implications for soil C sequestration. Acta Oecologica, 2009, 35, 218-226.	1.1	20
15	Terrestrial biological carbon sequestration: Science for enhancement and implementation. Geophysical Monograph Series, 2009, , 73-88.	0.1	15
16	Role of N2-fixation in Constructed Old-field Communities Under Different Regimes of [CO2], Temperature, and Water Availability. Ecosystems, 2008, 11, 125-137.	3.4	37
17	Changes in Soil Properties Following 55 Years of Secondary Forest Succession at Fort Benning, Georgia, U.S.A Restoration Ecology, 2008, 16, 503-510.	2.9	24
18	Selecting indicators of soil, microbial, and plant conditions to understand ecological changes in Georgia pine forests. Ecological Indicators, 2008, 8, 818-827.	6.3	25

#	Article	IF	CITATIONS
19	Changes in Carbon following Forest Soil Transplants along an Altitudinal Gradient. Communications in Soil Science and Plant Analysis, 2008, 39, 2883-2893.	1.4	3
20	Spatial scaling of functional gene diversity across various microbial taxa. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7768-7773.	7.1	285
21	TEMPORAL CHANGES IN C AND N STOCKS OF RESTORED PRAIRIE: IMPLICATIONS FOR C SEQUESTRATION STRATEGIES. Ecological Applications, 2008, 18, 1470-1488.	3.8	136
22	Modeling the Effects of Land Use on the Quality of Water, Air, Noise, and Habitat for a Five-County Region in Georgia. Ecology and Society, 2008, 13, .	2.3	3
23	Shortâ€Term Recovery of Ammoniumâ€15Nitrogen Applied to a Temperate Forest Inceptisol and Ultisol in East Tennessee, USA. Communications in Soil Science and Plant Analysis, 2007, 38, 2693-2704.	1.4	1
24	Low Dissolved Organic Carbon Input from Fresh Litter to Deep Mineral Soils. Soil Science Society of America Journal, 2007, 71, 347-354.	2.2	74
25	Measurement of Carbon for Carbon Sequestration and Site Monitoring. , 2007, , 341-351.		1
26	Soil carbon, after 3 years, under short-rotation woody crops grown under varying nutrient and water availability. Biomass and Bioenergy, 2007, 31, 793-801.	5.7	21
27	Variability in soil properties at different spatial scales (1m–1km) in a deciduous forest ecosystem. Soil Biology and Biochemistry, 2007, 39, 2621-2627.	8.8	78
28	Relationships among forest soil C isotopic composition, partitioning, and turnover times. Canadian Journal of Forest Research, 2006, 36, 2157-2167.	1.7	45
29	Bioregional planning in central Georgia, USA. Futures, 2006, 38, 471-489.	2.5	8
30	Measured forest soil C stocks and estimated turnover times along an elevation gradient. Geoderma, 2006, 136, 342-352.	5.1	134
31	Predicted effects of prescribed burning and harvesting on forest recovery and sustainability in southwest Georgia, USA. Journal of Environmental Management, 2006, 81, 323-332.	7.8	9
32	Reconciling Change in Oiâ€Horizon Carbonâ€14 with Mass Loss for an Oak Forest. Soil Science Society of America Journal, 2005, 69, 1492-1502.	2.2	25
33	Vehicle impacts on the environment at different spatial scales: observations in west central Georgia, USA. Journal of Terramechanics, 2005, 42, 383-402.	3.1	17
34	Initial characterization of processes of soil carbon stabilization using forest stand-level radiocarbon enrichment. Geoderma, 2005, 128, 52-62.	5.1	167
35	Elemental Analysis of Environmental and Biological Samples Using Laserâ€Induced Breakdown Spectroscopy and Pulsed Raman Spectroscopy. Journal of Dispersion Science and Technology, 2005, 25, 687-694.	2.4	23
36	Potential net soil N mineralization and decomposition of glycine-13C in forest soils along an elevation gradient. Soil Biology and Biochemistry, 2004, 36, 1491-1496.	8.8	24

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37	Studies on enhancing carbon sequestration in soils. Energy, 2004, 29, 1643-1650.	8.8	34
38	Modeling soil quality thresholds to ecosystem recovery at Fort Benning, GA, USA. Ecological Engineering, 2004, 23, 351-369.	3.6	20
39	A Landscape Level Analysis of Potential Excess Nitrogen in East-Central North Carolina, USA. Water, Air, and Soil Pollution, 2003, 146, 3-21.	2.4	13
40	Laser-induced breakdown spectroscopy for the environmental determination of total carbon and nitrogen in soils. Applied Optics, 2003, 42, 2072.	2.1	91
41	Effect of military training on indicators of soil quality at Fort Benning, Georgia. Ecological Indicators, 2003, 3, 171-179.	6.3	42
42	CSiTE Studies on Carbon Sequestration in Soils. , 2003, , 1465-1470.		0
43	<title>Laser-induced breakdown spectroscopy for environmental monitoring of soil carbon and nitrogen</title> . , 2002, 4576, 188.		9
44	Landscape level differences in soil carbon and nitrogen: Implications for soil carbon sequestration. Global Biogeochemical Cycles, 2002, 16, 61-1-61-14.	4.9	57
45	High-Value Renewable Energy from Prairie Grasses. Environmental Science & Technology, 2002, 36, 2122-2129.	10.0	261
46	Soil carbon storage beneath recently established tree plantations in Tennessee and South Carolina, USA,. Biomass and Bioenergy, 2002, 23, 93-102.	5.7	83
47	Nitrogen Saturation and Soil N Availability in a High-Elevation Spruce and Fir Forest. Water, Air, and Soil Pollution, 2000, 120, 295-313.	2.4	12
48	Title is missing!. Biogeochemistry, 2000, 48, 115-146.	3.5	1,684
49	Soil Carbon Dynamics beneath Switchgrass as Indicated by Stable Isotope Analysis. Journal of Environmental Quality, 2000, 29, 645-653.	2.0	126
50	CLIMATE CONTROLS ON FOREST SOIL C ISOTOPE RATIOS IN THE SOUTHERN APPALACHIAN MOUNTAINS. Ecology, 2000, 81, 1108-1119.	3.2	150
51	Radiocesium discharges and subsequent environmental transport at the major US weapons production facilities. Science of the Total Environment, 2000, 255, 55-73.	8.0	21
52	Ecological half-life of 137Cs in fish from a stream contaminated by nuclear reactor effluents. Science of the Total Environment, 2000, 263, 255-262.	8.0	10
53	Soil Carbon Inventories under a Bioenergy Crop (Switchgrass): Measurement Limitations. Journal of Environmental Quality, 1999, 28, 1359-1365.	2.0	159
54	Modeling the potential role of a forest ecosystem in phytostabilization and phytoextraction of 90Sr at a contaminated watershed. Journal of Environmental Radioactivity, 1999, 43, 305-323.	1.7	18

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55	Forest soil carbon inventories and dynamics along an elevation gradient in the southern Appalachian Mountains. Biogeochemistry, 1999, 45, 115-145.	3.5	135
56	Foliar retention of 15N tracers: implications for net canopy exchange in low- and high-elevation forest ecosystems. Forest Ecology and Management, 1998, 103, 211-216.	3.2	35
57	Effects of Soil Warming on Organic Matter Decomposition and Soil-Nitrogen Cycling in a High Elevation Red Spruce Stand. Ecological Studies, 1998, , 557-569.	1.2	0
58	Stable nitrogen isotope ratios in wet and dry nitrate deposition collected with an artificial tree. Tellus, Series B: Chemical and Physical Meteorology, 1996, 48, 60-64.	1.6	10
59	Integrated Ground-Based and Remotely Sensed Data to Support Global Studies of Environmental Change. Data and Knowledge in A Changing World, 1996, , 107-112.	0.1	0
60	Elevational trends in the fluxes of sulphur and nitrogen in throughfall in the Southern Appalachian Mountains: Some surprising results. Water, Air, and Soil Pollution, 1995, 85, 2265-2270.	2.4	34
61	Dispersal of radioactivity by wildlife from contaminated sites in a forested landscape. Journal of Environmental Radioactivity, 1995, 29, 137-156.	1.7	5
62	Relationships between soil nitrogen dynamics and natural ¹⁵ N abundance in plant foliage from Great Smoky Mountains National Park. Canadian Journal of Forest Research, 1994, 24, 1636-1645.	1.7	175
63	Variation in Foliar 15N Abundance and the Availability of Soil Nitrogen on Walker Branch Watershed. Ecology, 1993, 74, 2098-2113.	3.2	251
64	Nitrogen Isotope Composition of Ammonium and Nitrate in Bulk Precipitation and Forest Throughfall. International Journal of Environmental Analytical Chemistry, 1992, 47, 33-45.	3.3	99
65	Seasonal Trends in Environmental Tritium Concentrations in a Small Forest Adjacent to a Radioactive Waste Storage Area. Fusion Science and Technology, 1992, 21, 700-705.	0.6	4
66	Foliar Î′13C within a temperate deciduous forest: spatial, temporal, and species sources of variation. Oecologia, 1992, 90, 1-7.	2.0	204
67	Deposition of H 15 NO 3 vapour to white oak, red maple and loblolly pine foliage: experimental observations and a generalized model. New Phytologist, 1992, 122, 329-337.	7.3	39
68	Uptake of tritium by plants from atmosphere and soil. Environment International, 1991, 17, 23-29.	10.0	18
69	Foliar Leaching, Translocation, and Biogenic Emission of ^(35)S in Radio-Labeled Lobolly Pines. Ecology, 1991, 72, 1419-1419.	3.2	0
70	Foliar Leaching, Translocation, and Biogenic Emission of 35S in Radiolabelled Loblolly Pines. Ecology, 1990, 71, 239-251.	3.2	25
71	Foliar retention of 15N-nitrate and 15N-ammonium by red maple (Acer rubrum) and white oak (Quercus) Tj ETQq	1 0.7843 4.2	314 rgBT /0 75

⁷² Multispecies Methods of Testing for Toxicity: Use of the <i>Rhizobium</i>-Legume Symbiosis in Nitrogen Fixation and Correlations Between Responses by Algae and Terrestrial Plants., 1990,, 69-84.

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73	Technetium-99 Cycling in Maple Trees. Health Physics, 1989, 57, 299-307.	0.5	16
74	Technetium Absorption and Turnover in Monogastric and Polygastric Animals. Health Physics, 1989, 57, 315-319.	0.5	14
75	Fate and distribution of sulfur-35 in yellow poplar and red maple trees. Oecologia, 1988, 76, 43-50.	2.0	23
76	Sources of sulphur in forest canopy throughfall. Nature, 1988, 336, 148-151.	27.8	149
77	Contribution of foliar leaching and dry deposition to sulfate in net throughfall below deciduous trees. Atmospheric Environment, 1988, 22, 1425-1432.	1.0	73
78	Technetium-99 cycling in deciduous forests: Review and ecosystem model development. Environment International, 1987, 13, 311-321.	10.0	15
79	Long-term environmental problems of radioactively contaminated land. Environment International, 1986, 12, 545-553.	10.0	6
80	Environmental fate and distribution of technetium-99 in a deciduous forest ecosystem. Journal of Environmental Radioactivity, 1986, 3, 163-188.	1.7	16
81	Plant uptake of neptunium-237 and technetium-99 under field conditions. Journal of Environmental Radioactivity, 1986, 4, 91-99.	1.7	7
82	Chemical Form of Technetium in Corn (Zea mays) and the Gastrointestinal Absorption of Plant-incorporated Tc by Laboratory Rats. , 1986, , 319-332.		4
83	Absorption and Retention in Sheep of Technetium Administered into the Rumen as Pertechnetate or Bound to Food. , 1986, , 333-338.		4
84	Transfer of 131I and 95mTc from Pasture to Goat Milk. , 1986, , 339-347.		2
85	Field and Greenhouse Experiments on the Fate of Technetium in Plants and Soil. Health Physics, 1984, 46, 647-656.	0.5	12
86	Evaluation of models for predicting terrestrial food chain behavior of xenobiotics. Environmental Science & Technology, 1983, 17, 590-595.	10.0	63
87	Behavior of the Long-Lived Synthetic Elements and Their Natural Analogs in Food Chains. Advances in Radiation Biology, 1983, 10, 39-104.	0.4	18
88	Environmental behavior of technetium in soil and vegetation. Implications for radiological assessments. Environmental Science & amp; Technology, 1982, 16, 214-217.	10.0	25
89	Interception and Retention of Technetium by Vegetation and Soil. Journal of Environmental Quality, 1982, 11, 134-141.	2.0	24
90	Comparative Uptake of Actinides by Plants and Rats from the Shoreline of a Radioactive Pond. Journal of Environmental Quality, 1981, 10, 487-491.	2.0	9

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91	Comparative Uptake of Uranium, Thorium, and Plutonium by Biota Inhabiting a Contaminated Tennessee Floodplain. Journal of Environmental Quality, 1981, 10, 207-210.	2.0	17
92	FIELD EXPERIMENTS ON THE BEHAVIOR OF TECHNETIUM IN SOILS AND VEGETATION Health Physics, 1980, 39, 1041-1042.	0.5	0
93	Ingestion of Soil by Hispid Cotton Rats, White-Footed Mice, and Eastern Chipmunks. Journal of Mammalogy, 1980, 61, 136-137.	1.3	20
94	Radiocesium Uptake by a Population of Cotton Rats (Sigmodon Hispidus) Inhabiting The Banks of a Radioactive Liquid Waste Pond. Health Physics, 1979, 36, 39-45.	0.5	6
95	A review of parameter values used to assess the transport of plutonium, uranium, and thorium in terrestrial food chains. Environmental Research, 1978, 17, 437-452.	7.5	20
96	Multivariate Perspectives on the Ecology of Plant Mineral Element Composition. American Naturalist, 1978, 112, 533-544.	2.1	103
97	A Compartment Model of Plutonium Dynamics in a Deciduous Forest Ecosystem. Health Physics, 1978, 34, 611-619.	0.5	16
98	Plutonium in Biota from an East Tennessee Floodplain Forest. Health Physics, 1978, 34, 705-712.	0.5	6
99	An Analysis of Elemental Concentrations in Vegetation Bordering a Southeastern United States Coastal Plain Stream. Ecology, 1977, 58, 979-992.	3.2	25
100	Relationships between exploratory behaviour and genic heterozygosity in the oldfield mouse. Animal Behaviour, 1977, 25, 328-332.	1.9	19
101	A Multivariate Analysis of Factors Affecting Radiocesium Uptake by Sagittaria latifolia in Coastal Plain Environments. Journal of Environmental Quality, 1977, 6, 78-82.	2.0	14
102	Species, part and seasonal differences in sulfur concentrations in woody plants. Bulletin of Environmental Contamination and Toxicology, 1977, 17, 127-131.	2.7	1
103	Relationships Between Aggressive Behavior and Genic Heterozygosity in the Oldfield Mouse, Peromyscus polionotus. Evolution; International Journal of Organic Evolution, 1976, 30, 59.	2.3	27
104	Thermal Tolerance of Dragonfly Nymphs. II. Comparison of Nymphs from Control and Thermally Altered Environments. Physiological Zoology, 1976, 49, 206-213.	1.5	20
105	Temperature Tolerance and Preference of Immature Channel Catfish (Ictalurus punctatus). Copeia, 1976, 1976, 609.	1.3	26
106	Thermal Tolerances of Dragonfly Nymphs. I. Sources of Variation in Estimating Critical Thermal Maximum. Physiological Zoology, 1976, 49, 200-205.	1.5	12
107	Correlations between concentrations of elements in plants. Nature, 1976, 261, 686-688.	27.8	145
108	Relationships between Nest Building and General Activity in the Oldfield Mouse, Peromyscus polionotus. Journal of Mammalogy, 1976, 57, 412-415.	1.3	1

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109	GENIC HETEROZYGOSITY AND POPULATION DYNAMICS IN SMALL MAMMALS. , 1975, , 85-102.		23