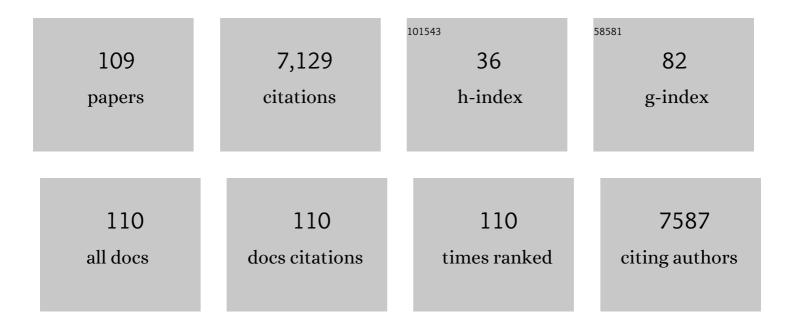
Charles T Garten

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Title is missing!. Biogeochemistry, 2000, 48, 115-146.	3.5	1,684
2	Characterization of Biochars Produced from Cornstovers for Soil Amendment. Environmental Science & Technology, 2010, 44, 7970-7974.	10.0	380
3	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
4	High-Value Renewable Energy from Prairie Grasses. Environmental Science & Technology, 2002, 36, 2122-2129.	10.0	261
5	Variation in Foliar 15N Abundance and the Availability of Soil Nitrogen on Walker Branch Watershed. Ecology, 1993, 74, 2098-2113.	3.2	251
6	Foliar δ13C within a temperate deciduous forest: spatial, temporal, and species sources of variation. Oecologia, 1992, 90, 1-7.	2.0	204
7	Indicators to support environmental sustainability of bioenergy systems. Ecological Indicators, 2011, 11, 1277-1289.	6.3	186
8	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
9	Initial characterization of processes of soil carbon stabilization using forest stand-level radiocarbon enrichment. Geoderma, 2005, 128, 52-62.	5.1	167
10	Soil Carbon Inventories under a Bioenergy Crop (Switchgrass): Measurement Limitations. Journal of Environmental Quality, 1999, 28, 1359-1365.	2.0	159
11	CLIMATE CONTROLS ON FOREST SOIL C ISOTOPE RATIOS IN THE SOUTHERN APPALACHIAN MOUNTAINS. Ecology, 2000, 81, 1108-1119.	3.2	150
12	Sources of sulphur in forest canopy throughfall. Nature, 1988, 336, 148-151.	27.8	149
13	Correlations between concentrations of elements in plants. Nature, 1976, 261, 686-688.	27.8	145
14	TEMPORAL CHANGES IN C AND N STOCKS OF RESTORED PRAIRIE: IMPLICATIONS FOR C SEQUESTRATION STRATEGIES. Ecological Applications, 2008, 18, 1470-1488.	3.8	136
15	Forest soil carbon inventories and dynamics along an elevation gradient in the southern Appalachian Mountains. Biogeochemistry, 1999, 45, 115-145.	3.5	135
16	Measured forest soil C stocks and estimated turnover times along an elevation gradient. Geoderma, 2006, 136, 342-352.	5.1	134
17	Soil Carbon Dynamics beneath Switchgrass as Indicated by Stable Isotope Analysis. Journal of Environmental Quality, 2000, 29, 645-653.	2.0	126
18	Multivariate Perspectives on the Ecology of Plant Mineral Element Composition. American Naturalist, 1978, 112, 533-544.	2.1	103

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19	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
20	Laser-induced breakdown spectroscopy for the environmental determination of total carbon and nitrogen in soils. Applied Optics, 2003, 42, 2072.	2.1	91
21	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
22	Soil carbon storage beneath recently established tree plantations in Tennessee and South Carolina, USA,. Biomass and Bioenergy, 2002, 23, 93-102.	5.7	83
23	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
24	Foliar retention of 15N-nitrate and 15N-ammonium by red maple (Acer rubrum) and white oak (Quercus) Tj ETQq	10	Г/Qyerlock 1(
25	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
26	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
27	Contribution of foliar leaching and dry deposition to sulfate in net throughfall below deciduous trees. Atmospheric Environment, 1988, 22, 1425-1432.	1.0	73
28	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
29	Evaluation of models for predicting terrestrial food chain behavior of xenobiotics. Environmental Science & Technology, 1983, 17, 590-595.	10.0	63
30	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
31	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
32	Review and model-based analysis of factors influencing soil carbon sequestration under hybrid poplar. Biomass and Bioenergy, 2011, 35, 214-226.	5.7	48
33	Relationships among forest soil C isotopic composition, partitioning, and turnover times. Canadian Journal of Forest Research, 2006, 36, 2157-2167.	1.7	45
34	Effect of military training on indicators of soil quality at Fort Benning, Georgia. Ecological Indicators, 2003, 3, 171-179.	6.3	42
35	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
36	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

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37	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
38	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
39	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
40	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
41	Studies on enhancing carbon sequestration in soils. Energy, 2004, 29, 1643-1650.	8.8	34
42	Comparison of forest soil carbon dynamics at five sites along a latitudinal gradient. Geoderma, 2011, 167-168, 30-40.	5.1	34
43	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
44	Temperature Tolerance and Preference of Immature Channel Catfish (Ictalurus punctatus). Copeia, 1976, 1976, 609.	1.3	26
45	An Analysis of Elemental Concentrations in Vegetation Bordering a Southeastern United States Coastal Plain Stream. Ecology, 1977, 58, 979-992.	3.2	25
46	Environmental behavior of technetium in soil and vegetation. Implications for radiological assessments. Environmental Science & amp; Technology, 1982, 16, 214-217.	10.0	25
47	Foliar Leaching, Translocation, and Biogenic Emission of 35S in Radiolabelled Loblolly Pines. Ecology, 1990, 71, 239-251.	3.2	25
48	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
49	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
50	Interception and Retention of Technetium by Vegetation and Soil. Journal of Environmental Quality, 1982, 11, 134-141.	2.0	24
51	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
52	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
53	Fate and distribution of sulfur-35 in yellow poplar and red maple trees. Oecologia, 1988, 76, 43-50.	2.0	23
54	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

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55	GENIC HETEROZYGOSITY AND POPULATION DYNAMICS IN SMALL MAMMALS. , 1975, , 85-102.		23
56	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
57	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
58	Thermal Tolerance of Dragonfly Nymphs. II. Comparison of Nymphs from Control and Thermally Altered Environments. Physiological Zoology, 1976, 49, 206-213.	1.5	20
59	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
60	Ingestion of Soil by Hispid Cotton Rats, White-Footed Mice, and Eastern Chipmunks. Journal of Mammalogy, 1980, 61, 136-137.	1.3	20
61	Modeling soil quality thresholds to ecosystem recovery at Fort Benning, GA, USA. Ecological Engineering, 2004, 23, 351-369.	3.6	20
62	A disconnect between O horizon and mineral soil carbon – Implications for soil C sequestration. Acta Oecologica, 2009, 35, 218-226.	1.1	20
63	Relationships between exploratory behaviour and genic heterozygosity in the oldfield mouse. Animal Behaviour, 1977, 25, 328-332.	1.9	19
64	Uptake of tritium by plants from atmosphere and soil. Environment International, 1991, 17, 23-29.	10.0	18
65	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
66	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
67	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
68	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
69	A Compartment Model of Plutonium Dynamics in a Deciduous Forest Ecosystem. Health Physics, 1978, 34, 611-619.	O.5	16
70	Environmental fate and distribution of technetium-99 in a deciduous forest ecosystem. Journal of Environmental Radioactivity, 1986, 3, 163-188.	1.7	16
71	Technetium-99 Cycling in Maple Trees. Health Physics, 1989, 57, 299-307.	O.5	16
72	Technetium-99 cycling in deciduous forests: Review and ecosystem model development. Environment International, 1987, 13, 311-321.	10.0	15

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73	Terrestrial biological carbon sequestration: Science for enhancement and implementation. Geophysical Monograph Series, 2009, , 73-88.	0.1	15
74	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
75	Technetium Absorption and Turnover in Monogastric and Polygastric Animals. Health Physics, 1989, 57, 315-319.	0.5	14
76	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
77	Review and Model-Based Analysis of Factors Influencing Soil Carbon Sequestration Beneath Switchgrass (Panicum virgatum). Bioenergy Research, 2012, 5, 124-138.	3.9	13
78	Thermal Tolerances of Dragonfly Nymphs. I. Sources of Variation in Estimating Critical Thermal Maximum. Physiological Zoology, 1976, 49, 200-205.	1.5	12
79	Field and Greenhouse Experiments on the Fate of Technetium in Plants and Soil. Health Physics, 1984, 46, 647-656.	0.5	12
80	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
81	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
82	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
83	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
84	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
85	<title>Laser-induced breakdown spectroscopy for environmental monitoring of soil carbon and nitrogen</title> . , 2002, 4576, 188.		9
86	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
87	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
88	Bioregional planning in central Georgia, USA. Futures, 2006, 38, 471-489.	2.5	8
89	Plant uptake of neptunium-237 and technetium-99 under field conditions. Journal of Environmental Radioactivity, 1986, 4, 91-99.	1.7	7
90	Plutonium in Biota from an East Tennessee Floodplain Forest. Health Physics, 1978, 34, 705-712.	0.5	6

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91	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
92	Long-term environmental problems of radioactively contaminated land. Environment International, 1986, 12, 545-553.	10.0	6
93	Dispersal of radioactivity by wildlife from contaminated sites in a forested landscape. Journal of Environmental Radioactivity, 1995, 29, 137-156.	1.7	5
94	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
95	Chemical Form of Technetium in Corn (Zea mays) and the Gastrointestinal Absorption of Plant-incorporated Tc by Laboratory Rats. , 1986, , 319-332.		4
96	Absorption and Retention in Sheep of Technetium Administered into the Rumen as Pertechnetate or Bound to Food. , 1986, , 333-338.		4
97	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
98	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
99	Transfer of 1311 and 95mTc from Pasture to Goat Milk. , 1986, , 339-347.		2
100	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.		2
101	Relationships between Nest Building and General Activity in the Oldfield Mouse, Peromyscus polionotus. Journal of Mammalogy, 1976, 57, 412-415.	1.3	1
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	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
104	Measurement of Carbon for Carbon Sequestration and Site Monitoring. , 2007, , 341-351.		1
105	FIELD EXPERIMENTS ON THE BEHAVIOR OF TECHNETIUM IN SOILS AND VEGETATION Health Physics, 1980, 39, 1041-1042.	0.5	0
106	Foliar Leaching, Translocation, and Biogenic Emission of ^(35)S in Radio-Labeled Lobolly Pines. Ecology, 1991, 72, 1419-1419.	3.2	0
107	CSiTE Studies on Carbon Sequestration in Soils. , 2003, , 1465-1470.		0
108	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

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109	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