Daniel Markewitz

List of Publications by Year
in descending order

96 papers	4,120 citations	159585 30 h-index	133252 59 g-index
99 all docs	99 docs citations	99 times ranked	4855 citing authors

#	Article	IF	Citations
1	Rapid accumulation and turnover of soil carbon in a re-establishing forest. Nature, 1999, 400, 56-58.	27.8	561
2	How Deep Is Soil?. BioScience, 1995, 45, 600-609.	4.9	298
3	The age of fine-root carbon in three forests of the eastern United States measured by radiocarbon. Oecologia, 2001, 129, 420-429.	2.0	235
4	Soil Chemical Change during Three Decades in an Old-Field Loblolly Pine (Pinus Taeda L.) Ecosystem. Ecology, 1994, 75, 1463-1473.	3.2	181
5	Soil moisture depletion under simulated drought in the Amazon: impacts on deep root uptake. New Phytologist, 2010, 187, 592-607.	7.3	181
6	Legacies of agriculture and forest regrowth in the nitrogen of old-field soils. Forest Ecology and Management, 2000, 138, 233-248.	3.2	142
7	NUTRIENT LOSS AND REDISTRIBUTION AFTER FOREST CLEARING ON A HIGHLY WEATHERED SOIL IN AMAZONIA. , 2004, 14, 177-199.		135
8	ECOLOGICAL RESEARCH IN THE LARGE-SCALE BIOSPHEREâ€" ATMOSPHERE EXPERIMENT IN AMAZONIA: EARLY RESULTS. , 2004, 14, 3-16.		130
9	Bioavailability of slowly cycling soil phosphorus: major restructuring of soil P fractions over four decades in an aggrading forest. Oecologia, 2006, 150, 259-271.	2.0	129
10	Control of cation concentrations in stream waters by surface soil processes in an Amazonian watershed. Nature, 2001, 410, 802-805.	27.8	125
11	Soil Aggregates and Associated Organic Matter under Conventional Tillage, No-Tillage, and Forest Succession after Three Decades. PLoS ONE, 2014, 9, e84988.	2.5	123
12	Three Decades of Observed Soil Acidification in the Calhoun Experimental Forest: Has Acid Rain Made a Difference?. Soil Science Society of America Journal, 1998, 62, 1428-1439.	2.2	113
13	Effect of complete competition control and annual fertilization on stem growth and canopy relations for a chronosequence of loblolly pine plantations in the lower coastal plain of Georgia. Forest Ecology and Management, 2004, 192, 21-37.	3.2	94
14	Fossil fuel carbon emissions from silviculture: Impacts on net carbon sequestration in forests. Forest Ecology and Management, 2006, 236, 153-161.	3.2	72
15	Human-Soil Relations are Changing Rapidly: Proposals from SSSA's Cross-Divisional Soil Change Working Group. Soil Science Society of America Journal, 2011, 75, 2079-2084.	2.2	70
16	Additive Tree Biomass Equations for Midrotation Loblolly Pine Plantations. Forest Science, 2015, 61, 613-623.	1.0	66
17	The Bio in Aluminum and Silicon Geochemistry. Biogeochemistry, 1998, 42, 235-252.	3.5	58
18	SOIL CHANGE AND CARBON STORAGE IN LONGLEAF PINE STANDS PLANTED ON MARGINAL AGRICULTURAL LANDS. , 2002, 12, 1276-1285.		58

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19	Nitrogen and phosphorus dynamics for 13-year-old loblolly pine stands receiving complete competition control and annual N fertilizer. Forest Ecology and Management, 2006, 227, 155-168.	3.2	55
20	Effects of land cover on chemical characteristics of streams in the Cerrado region of Brazil. Biogeochemistry, 2011, 105, 75-88.	3.5	49
21	Topographic variability and the influence of soil erosion on the carbon cycle. Global Biogeochemical Cycles, 2016, 30, 644-660.	4.9	49
22	Soil phosphorus transformations under forest burning and laboratory heat treatments. Geoderma, 2010, 155, 401-408.	5.1	48
23	Fluxes of nitrogen and phosphorus in a gallery forest in the Cerrado of central Brazil. Biogeochemistry, 2011, 105, 89-104.	3.5	48
24	Phosphorus cycling in a small watershed in the Brazilian Cerrado: impacts of frequent burning. Biogeochemistry, 2011, 105, 105-118.	3.5	46
25	Dissolved CO₂ in small catchment streams of eastern Amazonia: A minor pathway of terrestrial carbon loss. Journal of Geophysical Research, 2010, 115, .	3.3	43
26	Twenty years of intensive fertilization and competing vegetation suppression inÂloblolly pine plantations: Impacts on soil C, N, and microbial biomass. Soil Biology and Biochemistry, 2010, 42, 713-723.	8.8	42
27	Landâ€use effects on the chemical attributes of lowâ€order streams in the eastern Amazon. Journal of Geophysical Research, 2010, 115, .	3.3	41
28	Incorporating Spatial Dependence into Estimates of Soil Carbon Contents under Different Land Covers. Soil Science Society of America Journal, 2010, 74, 635-646.	2.2	37
29	Carbon accumulation in loblolly pine plantations is increased by fertilization across a soil moisture availability gradient. Forest Ecology and Management, 2018, 424, 39-52.	3.2	34
30	Dissolved rainfall inputs and streamwater outputs in an undisturbed watershed on highly weathered soils in the Brazilian cerrado. Hydrological Processes, 2006, 20, 2615-2639.	2.6	33
31	Runoff sources and land cover change in the Amazon: an end-member mixing analysis from small watersheds. Biogeochemistry, 2011, 105, 7-18.	3.5	33
32	Soil carbon storage and nitrogen and phosphorous availability in loblolly pine plantations over 4 to16Âyears of herbicide and fertilizer treatments. Biogeochemistry, 2007, 84, 13-30.	3.5	31
33	Two-year throughfall and fertilization effects on leaf physiology and growth of loblolly pine in the Georgia Piedmont. Forest Ecology and Management, 2014, 330, 29-37.	3.2	31
34	A Range-Wide Experiment to Investigate Nutrient and Soil Moisture Interactions in Loblolly Pine Plantations. Forests, 2015, 6, 2014-2028.	2.1	31
35	Modeling the effects of throughfall reduction on soil water content in a Brazilian Oxisol under a moist tropical forest. Water Resources Research, 2007, 43, .	4.2	30
36	Soil Organic Matter Fractions under Managed Pine Plantations of the Southeastern USA. Soil Science Society of America Journal, 2004, 68, 950-958.	2.2	29

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37	Long-term soil potassium availability from a Kanhapludult to an aggrading loblolly pine ecosystem. Forest Ecology and Management, 2000, 130, 109-129.	3.2	27
38	Loss of nutrients from terrestrial ecosystems to streams and the atmosphere following land use change in Amazonia. Geophysical Monograph Series, 2004, , 147-158.	0.1	27
39	Hydrological and biogeochemical processes in a changing Amazon: results from small watershed studies and the large-scale biosphere-atmosphere experiment. Hydrological Processes, 2006, 20, 2467-2476.	2.6	26
40	Five native tree species and manioc under slash-and-mulch agroforestry in the eastern Amazon of Brazil: plant growth and soil responses. Agroforestry Systems, 2011, 81, 1-14.	2.0	24
41	Modeling Aboveground Biomass Components and Volume-to-Weight Conversion Ratios for Loblolly Pine Trees. Forest Science, 2016, 62, 463-473.	1.0	24
42	Ideas and perspectives: Strengthening the biogeosciences in environmental research networks. Biogeosciences, 2018, 15, 4815-4832.	3.3	24
43	A Comparison of Three Field Sampling Methods to Estimate Soil Carbon Content. Forest Science, 2012, 58, 513-522.	1.0	23
44	Fertilization increased leaf water use efficiency and growth of <i>Pinus taeda</i> subjected to five years of throughfall reduction. Canadian Journal of Forest Research, 2018, 48, 227-236.	1.7	22
45	Exogenous Oxalic Acid and Citric Acid Improve Lead (Pb) Tolerance of Larix olgensis A. Henry Seedlings. Forests, 2018, 9, 510.	2.1	22
46	Impact of management on nutrients, carbon, and energy in aboveground biomass components of mid-rotation loblolly pine (Pinus taeda L.) plantations. Annals of Forest Science, 2014, 71, 843-851.	2.0	21
47	Carbon balance and economic performance of pine plantations for bioenergy production in the Southeastern United States. Biomass and Bioenergy, 2018, 117, 44-55.	5.7	21
48	I. Early Loblolly Pine Stand Response to Tillage on the Piedmont and Upper Coastal Plain of Georgia: Mortality, Stand Uniformity, and Second and Third Year Growth. Southern Journal of Applied Forestry, 2002, 26, 181-189.	0.3	19
49	Soil production and the soil geomorphology legacy of GroveÂKarlÂGilbert. Soil Science Society of America Journal, 2020, 84, 1-20.	2.2	18
50	Soil Organic Matter Fractions under Managed Pine Plantations of the Southeastern USA. Soil Science Society of America Journal, 2004, 68, 950.	2.2	18
51	Soil change and loblolly pine (Pinus taeda) seedling growth following site preparation tillage in the Upper Coastal Plain of the southeastern United States. Forest Ecology and Management, 2007, 242, 558-568.	3.2	17
52	Home Range, Survival, and Activity Patterns of the Southeastern Pocket Gopher: Implications for Translocation. Journal of Fish and Wildlife Management, 2017, 8, 544-557.	0.9	16
53	Modelling the effect of changing precipitation inputs on deep soil water utilization. Hydrological Processes, 2018, 32, 672-686.	2.6	14
54	Temperature sensitivity of soil respiration in a low-latitude forest ecosystem varies by season and habitat but is unaffected by experimental warming. Biogeochemistry, 2018, 141, 63-73.	3.5	14

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55	Soil heterotrophic respiration: Measuring and modeling seasonal variation and silvicultural impacts. Forest Ecology and Management, 2018, 430, 594-608.	3.2	13
56	Seasonal and spatial variation in the potential for iron reduction in soils of the Southeastern Piedmont of the US. Catena, 2019, 180, 32-40.	5.0	13
57	Atmospheric Deposition and Soil Resources of the Southern Pine Forest. Ecological Studies, 1996, , 315-336.	1.2	13
58	II. Early Loblolly Pine Stand Response to Tillage on the Piedmont and Upper Coastal Plain of Georgia: Tree Allometry, Foliar Nitrogen Concentration, Soil Bulk Density, Soil Moisture, and Soil Nitrogen Status. Southern Journal of Applied Forestry, 2002, 26, 190-196.	0.3	12
59	Nitrogen Fixation Inputs in Pasture and Early Successional Forest in the Brazilian Amazon Region: Evidence From a Claybox Mesocosm Study. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 712-721.	3.0	12
60	Accounting for two-billion tons of stabilized soil carbon. Science of the Total Environment, 2020, 703, 134615.	8.0	12
61	Assessing Heterogeneity in Soil Nitrogen Cycling: A Plotâ€Scale Approach. Soil Science Society of America Journal, 2014, 78, S237.	2.2	11
62	Soil without life?. Nature, 1997, 389, 435-435.	27.8	10
63	Annual fertilization and interspecific competition control: effects on in situ forest floor nitrogen fluxes of different-aged Pinus taeda stands in southeast Georgia, USA. Canadian Journal of Forest Research, 2004, 34, 1802-1818.	1.7	10
64	Prescribed burning effects on the hydrologic behavior of gullies in the South Carolina Piedmont. Forest Ecology and Management, 2010, 259, 1959-1970.	3.2	10
65	Improved fallow: growth and nitrogen accumulation of five native tree species in Brazil. Nutrient Cycling in Agroecosystems, 2016, 106, 1-15.	2.2	10
66	Persistent anthropogenic legacies structure depth dependence of regenerating rooting systems and their functions. Biogeochemistry, 2020, 147, 259-275.	3.5	10
67	Dischargeâ€"calcium concentration relationships in streams of the Amazon and Cerrado of Brazil: soil or land use controlled. Biogeochemistry, 2011, 105, 19-35.	3.5	9
68	Soil and tree response to P fertilization in a secondary tropical forest supported by an Oxisol. Biology and Fertility of Soils, 2012, 48, 665-678.	4.3	9
69	Soil trace gas fluxes in living mulch and conventional agricultural systems. Journal of Environmental Quality, 2020, 49, 268-280.	2.0	8
70	CO2-driven cation leaching after tropical forest clearing. Journal of Geochemical Exploration, 2006, 88, 214-219.	3.2	7
71	Areas of residential development in the southern Appalachian Mountains are characterized by low riparian zone nitrogen cycling and no increase in soil greenhouse gas emissions. Biogeochemistry, 2017, 133, 113-125.	3.5	7
72	Understory Vegetation Structure and Soil Characteristics of Geomys pinetis (Southeastern Pocket) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	7

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73	The bio in aluminum and silicon geochemistry. , 1998, , 235-252.		7
74	Evolution of Soil, Ecosystem, and Critical Zone Research at the USDA FS Calhoun Experimental Forest. , 2014, , 405-433.		6
75	Loblolly Pine (<i>Pinus taeda</i> L.) Seedling Growth Response to Site Preparation Tillage on Upland Sites. Soil Science Society of America Journal, 2016, 80, 472-489.	2.2	5
76	The Alleviation of Nutrient Deficiency Symptoms in Changbai Larch (Larix olgensis) Seedlings by the Application of Exogenous Organic Acids. Forests, 2016, 7, 213.	2.1	5
77	Relationships among growth, Î´13C, foliar nitrogen concentration, foliar nitrogen content and intercepted radiation at different cultural intensities, planting densities and site indices reveal the importance of water use efficiency in mid-rotation loblolly pine stands. Forest Ecology and Management, 2018, 422, 233-240.	3.2	5
78	Drying-Wetting Cycles: Effect on Deep Soil Carbon. Soil Systems, 2018, 2, 3.	2.6	5
79	Agricultural Impacts on Hydrobiogeochemical Cycling in the Amazon: Is There Any Solution?. Water (Switzerland), 2020, 12, 763.	2.7	5
80	Mapping depth to the argillic horizon on historically farmed soil currently under forests. Geoderma, 2020, 369, 114291.	5.1	5
81	Regional Assessment of Carbon Pool Response to Intensive Silvicultural Practices in Loblolly Pine Plantations. Forests, 2022, 13, 36.	2.1	5
82	Soil and plant N-budget 1Âyear after planting of a slash-and-mulch agroforestry system in the eastern Amazon of Brazil. Agroforestry Systems, 2013, 87, 1339-1349.	2.0	4
83	Heterotrophic Respiration and the Divergence of Productivity and Carbon Sequestration. Geophysical Research Letters, 2021, 48, e2020GL092366.	4.0	4
84	Throughfall Reduction Ã— Fertilization: Deep Soil Water Usage in a Clay Rich Ultisol Under Loblolly Pine in the Southeast USA. Frontiers in Forests and Global Change, 2020, 2, .	2.3	3
85	The impacts of historical land-use on phosphorus movement in the Calhoun Critical Zone Observatory in the southeastern US Piedmont. Biogeochemistry, 2021, 154, 17-35.	3.5	3
86	Evasion of CO2 and dissolved carbon in river waters of three small catchments in an area occupied by small family farms in the eastern Amazon. Revista Ambiente & Ãgua, 2017, 12, 556.	0.3	2
87	A Slash-And-Mulch Improved-Fallow Agroforestry System: Growth and Nutrient Budgets over Two Rotations. Forests, 2019, 10, 1125.	2.1	2
88	Long-term forest soils research: lessons learned from the US experience. Developments in Soil Science, 2019, , 473-504.	0.5	2
89	Holistic aboveground ecological productivity efficiency modeling using data envelopment analysis in the southeastern U.S. Science of the Total Environment, 2022, 824, 153802.	8.0	2
90	Hillslope Position and Land-Use History Influence P Distribution in the Critical Zone. , 2022, , 171-202.		2

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91	Understanding Soil Change-Soil Sustainability over Millennia, Centuries, and Decades. Restoration Ecology, 2003, 11, 123-123.	2.9	1
92	History of forest soils knowledge and research. Developments in Soil Science, 2019, 36, 43-55.	0.5	1
93	A Rapid Approach to Determine Soil Carbon Quality and Its Relationship to Soil Greenhouse Gas Emissions. Communications in Soil Science and Plant Analysis, 2021, 52, 256-267.	1.4	1
94	Combining Electromagnetic Induction and Resistivity Imaging with Soil Sampling to Investigate Past Soil Disturbance at Wormsloe State Historic Site, Savannah, GA. Soil Horizons, 2015, 56, 1.	0.3	1
95	Evaluating Potential Bias in Media Coverage of the Public Debate Over Acid Rain and Chlorofluorocarbons in the 1980s. Applied Environmental Education and Communication, 2012, 11, 65-78.	1.1	0
96	Using vNIR spectroscopy to assess changes in Ultisols of ParÃ¡ State, Brazil. Geoderma Regional, 2017, 11, 71-77.	2.1	0