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	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
2	Regional Assessment of Carbon Pool Response to Intensive Silvicultural Practices in Loblolly Pine Plantations. Forests, 2022, 13, 36.	2.1	5
3	Hillslope Position and Land-Use History Influence P Distribution in the Critical Zone. , 2022, , 171-202.		2
4	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
5	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
6	Heterotrophic Respiration and the Divergence of Productivity and Carbon Sequestration. Geophysical Research Letters, 2021, 48, e2020GL092366.	4.0	4
7	Accounting for two-billion tons of stabilized soil carbon. Science of the Total Environment, 2020, 703, 134615.	8.0	12
8	Soil trace gas fluxes in living mulch and conventional agricultural systems. Journal of Environmental Quality, 2020, 49, 268-280.	2.0	8
9	Agricultural Impacts on Hydrobiogeochemical Cycling in the Amazon: Is There Any Solution?. Water (Switzerland), 2020, 12, 763.	2.7	5
10	Persistent anthropogenic legacies structure depth dependence of regenerating rooting systems and their functions. Biogeochemistry, 2020, 147, 259-275.	3.5	10
11	Soil production and the soil geomorphology legacy of GroveÂKarlÂGilbert. Soil Science Society of America Journal, 2020, 84, 1-20.	2.2	18
12	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
13	Mapping depth to the argillic horizon on historically farmed soil currently under forests. Geoderma, 2020, 369, 114291.	5.1	5
14	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
15	A Slash-And-Mulch Improved-Fallow Agroforestry System: Growth and Nutrient Budgets over Two Rotations. Forests, 2019, 10, 1125.	2.1	2
16	History of forest soils knowledge and research. Developments in Soil Science, 2019, 36, 43-55.	0.5	1
17	Long-term forest soils research: lessons learned from the US experience. Developments in Soil Science, 2019, , 473-504.	0.5	2
18	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

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19	Modelling the effect of changing precipitation inputs on deep soil water utilization. Hydrological Processes, 2018, 32, 672-686.	2.6	14
20	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
21	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
22	Exogenous Oxalic Acid and Citric Acid Improve Lead (Pb) Tolerance of Larix olgensis A. Henry Seedlings. Forests, 2018, 9, 510.	2.1	22
23	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
24	Soil heterotrophic respiration: Measuring and modeling seasonal variation and silvicultural impacts. Forest Ecology and Management, 2018, 430, 594-608.	3.2	13
25	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
26	Drying-Wetting Cycles: Effect on Deep Soil Carbon. Soil Systems, 2018, 2, 3.	2.6	5
27	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
28	Ideas and perspectives: Strengthening the biogeosciences in environmental research networks. Biogeosciences, 2018, 15, 4815-4832.	3.3	24
29	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
30	Understory Vegetation Structure and Soil Characteristics of Geomys pinetis (Southeastern Pocket) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.4	7
31	Using vNIR spectroscopy to assess changes in Ultisols of ParÃ¡ State, Brazil. Geoderma Regional, 2017, 11, 71-77.	2.1	0
32	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
33	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
34	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
35	Modeling Aboveground Biomass Components and Volume-to-Weight Conversion Ratios for Loblolly Pine Trees. Forest Science, 2016, 62, 463-473.	1.0	24
36	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

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37	Topographic variability and the influence of soil erosion on the carbon cycle. Global Biogeochemical Cycles, 2016, 30, 644-660.	4.9	49
38	Improved fallow: growth and nitrogen accumulation of five native tree species in Brazil. Nutrient Cycling in Agroecosystems, 2016, 106, 1-15.	2.2	10
39	Additive Tree Biomass Equations for Midrotation Loblolly Pine Plantations. Forest Science, 2015, 61, 613-623.	1.0	66
40	A Range-Wide Experiment to Investigate Nutrient and Soil Moisture Interactions in Loblolly Pine Plantations. Forests, 2015, 6, 2014-2028.	2.1	31
41	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
42	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
43	Assessing Heterogeneity in Soil Nitrogen Cycling: A Plotâ€Scale Approach. Soil Science Society of America Journal, 2014, 78, S237.	2.2	11
44	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
45	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
46	Evolution of Soil, Ecosystem, and Critical Zone Research at the USDA FS Calhoun Experimental Forest. , 2014, , 405-433.		6
47	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
48	A Comparison of Three Field Sampling Methods to Estimate Soil Carbon Content. Forest Science, 2012, 58, 513-522.	1.0	23
49	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
50	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
51	Fluxes of nitrogen and phosphorus in a gallery forest in the Cerrado of central Brazil. Biogeochemistry, 2011, 105, 89-104.	3.5	48
52	Phosphorus cycling in a small watershed in the Brazilian Cerrado: impacts of frequent burning. Biogeochemistry, 2011, 105, 105-118.	3.5	46
53	Effects of land cover on chemical characteristics of streams in the Cerrado region of Brazil. Biogeochemistry, 2011, 105, 75-88.	3.5	49
54	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

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55	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
56	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
57	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
58	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
59	Soil moisture depletion under simulated drought in the Amazon: impacts on deep root uptake. New Phytologist, 2010, 187, 592-607.	7.3	181
60	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
61	Landâ€use effects on the chemical attributes of lowâ€order streams in the eastern Amazon. Journal of Geophysical Research, 2010, 115, .	3.3	41
62	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
63	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
64	Soil phosphorus transformations under forest burning and laboratory heat treatments. Geoderma, 2010, 155, 401-408.	5.1	48
65	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
66	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
67	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
68	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
69	Fossil fuel carbon emissions from silviculture: Impacts on net carbon sequestration in forests. Forest Ecology and Management, 2006, 236, 153-161.	3.2	72
70	CO2-driven cation leaching after tropical forest clearing. Journal of Geochemical Exploration, 2006, 88, 214-219.	3.2	7
71	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
72	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

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73	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
74	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
75	ECOLOGICAL RESEARCH IN THE LARGE-SCALE BIOSPHEREâ€" ATMOSPHERE EXPERIMENT IN AMAZONIA: EARLY RESULTS. , 2004, 14, 3-16.		130
76	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
77	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
78	NUTRIENT LOSS AND REDISTRIBUTION AFTER FOREST CLEARING ON A HIGHLY WEATHERED SOIL IN AMAZONIA. , 2004, 14, 177-199.		135
79	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
80	Soil Organic Matter Fractions under Managed Pine Plantations of the Southeastern USA. Soil Science Society of America Journal, 2004, 68, 950.	2.2	18
81	Understanding Soil Change-Soil Sustainability over Millennia, Centuries, and Decades. Restoration Ecology, 2003, 11, 123-123.	2.9	1
82	SOIL CHANGE AND CARBON STORAGE IN LONGLEAF PINE STANDS PLANTED ON MARGINAL AGRICULTURAL LANDS. , 2002, 12, 1276-1285.		58
83	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
84	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
85	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
86	Control of cation concentrations in stream waters by surface soil processes in an Amazonian watershed. Nature, 2001, 410, 802-805.	27.8	125
87	Legacies of agriculture and forest regrowth in the nitrogen of old-field soils. Forest Ecology and Management, 2000, 138, 233-248.	3.2	142
88	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
89	Rapid accumulation and turnover of soil carbon in a re-establishing forest. Nature, 1999, 400, 56-58.	27.8	561
90	The Bio in Aluminum and Silicon Geochemistry. Biogeochemistry, 1998, 42, 235-252.	3.5	58

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91	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
92	The bio in aluminum and silicon geochemistry. , 1998, , 235-252.		7
93	Soil without life?. Nature, 1997, 389, 435-435.	27.8	10
94	Atmospheric Deposition and Soil Resources of the Southern Pine Forest. Ecological Studies, 1996, , 315-336.	1.2	13
95	How Deep Is Soil?. BioScience, 1995, 45, 600-609.	4.9	298
96	Soil Chemical Change during Three Decades in an Old-Field Loblolly Pine (Pinus Taeda L.) Ecosystem. Ecology, 1994, 75, 1463-1473.	3.2	181