Edzo Veldkamp

List of Publications by Year
in descending order

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135 papers	9,262 citations	34016 52 h-index	45213 90 g-index
158 all docs	158 docs citations	158 times ranked	8529 citing authors

#	Article	IF	Citations
1	Implementing a New Rubber Plant Functional Type in the Community Land Model (CLM5) Improves Accuracy of Carbon and Water Flux Estimation. Land, 2022, 11, 183.	1.2	3
2	Responses of tree growth and biomass production to nutrient addition in a semiâ€deciduous tropical forest in <scp>Africa</scp>. Ecology, 2022, 103, e3659.	1.5	16
3	Reduced Soil Gross N ₂ O Emission Driven by Substrates Rather Than Denitrification Gene Abundance in Cropland Agroforestry and Monoculture. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	1.3	6
4	Nutrient saturation of crop monocultures and agroforestry indicated by nutrient response efficiency. Nutrient Cycling in Agroecosystems, 2021, 119, 69-82.	1.1	17
5	Using a Bottom-Up Approach to Scale Leaf Photosynthetic Traits of Oil Palm, Rubber, and Two Coexisting Tropical Woody Species. Forests, 2021, 12, 359.	0.9	1
6	Mulching with pruned fronds promotes the internal soil N cycling and soil fertility in a large-scale oil palm plantation. Biogeochemistry, 2021, 154, 63-80.	1.7	13
7	Nitrogen and Phosphorus Control Soil Methane Uptake in Tropical Montane Forests. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005970.	1.3	7
8	Substantial Stem Methane Emissions From Rainforest and Cacao Agroforest Partly Negate Soil Uptake in the Congo Basin. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006312.	1.3	5
9	Late Holocene ENSO-related fire impact on vegetation, nutrient status and carbon accumulation of peatlands in Jambi, Sumatra, Indonesia. Review of Palaeobotany and Palynology, 2021, 293, 104482.	0.8	7
10	Deforestation and reforestation impacts on soils in the tropics. Nature Reviews Earth & Environment, 2020, 1, 590-605.	12.2	121
11	Soil Carbon Dynamics Following Land Use Changes and Conversion to Oil Palm Plantations in Tropical Lowlands Inferred From Radiocarbon. Global Biogeochemical Cycles, 2020, 34, e2019GB006461.	1.9	3
12	Soil greenhouse gas fluxes following conventional selective and reduced-impact logging in a Congo Basin rainforest. Biogeochemistry, 2020, 151, 153-170.	1.7	9
13	Trade-offs between multifunctionality and profit in tropical smallholder landscapes. Nature Communications, 2020, 11, 1186.	5.8	156
14	Soil research challenges in response to emerging agricultural soil management practices. Advances in Agronomy, 2020, , 179-240.	2.4	19
15	Measured greenhouse gas budgets challenge emission savings from palm-oil biodiesel. Nature Communications, 2020, 11, 1089.	5.8	51
16	Herbicide weed control increases nutrient leaching compared to mechanical weeding in a large-scale oil palm plantation. Biogeosciences, 2020, 17, 5243-5262.	1.3	11
17	Stem and soil nitrous oxide fluxes from rainforest and cacao agroforest on highly weathered soils in the Congo Basin. Biogeosciences, 2020, 17, 5377-5397.	1.3	8
18	Conversion of monoculture cropland and open grassland to agroforestry alters the abundance of soil bacteria, fungi and soil-N-cycling genes. PLoS ONE, 2019, 14, e0218779.	1.1	41

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19	Reducing Fertilizer and Avoiding Herbicides in Oil Palm Plantationsâ€"Ecological and Economic Valuations. Frontiers in Forests and Global Change, 2019, 2, .	1.0	75
20	Changes in soil organic carbon and nutrient stocks in conventional selective logging versus reduced-impact logging in rainforests on highly weathered soils in Southern Cameroon. Forest Ecology and Management, 2019, 451, 117522.	1.4	16
21	Patterns in Soil Chemical Weathering Related to Topographic Gradients and Vegetation Structure in a High Andean Tropical Ecosystem. Journal of Geophysical Research F: Earth Surface, 2019, 124, 666-685.	1.0	30
22	Tree Species Shape Soil Bacterial Community Structure and Function in Temperate Deciduous Forests. Frontiers in Microbiology, 2019, 10, 1519.	1.5	71
23	Impacts of burning on soil trace gas fluxes in two wooded savanna sites in Burkina Faso. Journal of Arid Environments, 2019, 165, 132-140.	1.2	10
24	Poplar Rows in Temperate Agroforestry Croplands Promote Bacteria, Fungi, and Denitrification Genes in Soils. Frontiers in Microbiology, 2019, 10, 3108.	1.5	41
25	Canopy soil of oil palm plantations emits methane and nitrous oxide. Soil Biology and Biochemistry, 2018, 122, 1-6.	4.2	9
26	Cocoa production: Monocultures are not the solution to climate adaptationâ€"Response to Abdulai etÂal. 2017. Global Change Biology, 2018, 24, 561-562.	4.2	10
27	Conversion of tropical forests to smallholder rubber and oil palm plantations impacts nutrient leaching losses and nutrient retention efficiency in highly weathered soils. Biogeosciences, 2018, 15, 5131-5154.	1.3	38
28	Soil Biochemical Properties and Nutrient Leaching from Smallholder Oil Palm Plantations, Sumatra-Indonesia. Agrivita, 2018, 40, .	0.2	4
29	Canopy soil greenhouse gas dynamics in response to indirect fertilization across an elevation gradient of tropical montane forests. Biotropica, 2017, 49, 153-159.	0.8	4
30	Gross N2O emission and gross N2O uptake in soils under temperate spruce and beech forests. Soil Biology and Biochemistry, 2017, 112, 228-236.	4.2	23
31	Nitrous oxide emissions from stems of alder, beech and spruce in a temperate forest. Plant and Soil, 2017, 420, 423-434.	1.8	23
32	Direct and cascading impacts of tropical land-use change on multi-trophic biodiversity. Nature Ecology and Evolution, 2017, 1, 1511-1519.	3.4	137
33	Partial Nutrient Budget from Lowland Forests Converted to Oil Palm and Rubber Plantations in Sumatra, Indonesia. , 2017, , 273-285.		0
34	Spatial variability in soil organic carbon in a tropical montane landscape: associations between soil organic carbon and land use, soil properties, vegetation, and topography vary across plot to landscape scales. Soil, 2017, 3, 123-137.	2.2	4
35	Soil trace gas fluxes along orthogonal precipitation and soil fertility gradients in tropical lowland forests of Panama. Biogeosciences, 2017, 14, 3509-3524.	1.3	17
36	Soil nitrogen oxide fluxes from lowland forests converted to smallholder rubber and oil palm plantations in Sumatra, Indonesia. Biogeosciences, 2017, 14, 2781-2798.	1.3	38

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37	Disentangling gross N2O production and consumption in soil. Scientific Reports, 2016, 6, 36517.	1.6	32
38	Spatial variability surpasses land-use change effects on soil biochemical properties of converted lowland landscapes in Sumatra, Indonesia. Geoderma, 2016, 284, 42-50.	2.3	54
39	Tree-microbial biomass competition for nutrients in a temperate deciduous forest, central Germany. Plant and Soil, 2016, 408, 227-242.	1.8	10
40	Land-use choices follow profitability at the expense of ecological functions in Indonesian smallholder landscapes. Nature Communications, 2016, 7, 13137.	5.8	186
41	Soil N2O fluxes along an elevation gradient of tropical montane forests under experimental nitrogen and phosphorus addition. Frontiers in Earth Science, 2015, 3, .	0.8	30
42	Soil Nitrogen-Cycling Responses to Conversion of Lowland Forests to Oil Palm and Rubber Plantations in Sumatra, Indonesia. PLoS ONE, 2015, 10, e0133325.	1.1	172
43	Soil fertility controls soilâ€“atmosphere carbon dioxide and methane fluxes in a tropical landscape converted from lowland forest to rubber and oil palm plantations. Biogeosciences, 2015, 12, 5831-5852.	1.3	56
44	Response of N cycling to nutrient inputs in forest soils across a 1000â€“3000 m elevation gradient in the Ecuadorian Andes. Ecology, 2015, 96, 749-761.	1.5	70
45	Free-living nitrogen fixation responds to elevated nutrient inputs in tropical montane forest floor and canopy soils of southern Ecuador. Biogeochemistry, 2015, 122, 281-294.	1.7	43
46	Conversion of lowland tropical forests to tree cash crop plantations loses up to one-half of stored soil organic carbon. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9956-9960.	3.3	149
47	Tree species diversity effects on productivity, soil nutrient availability and nutrient response efficiency in a temperate deciduous forest. Forest Ecology and Management, 2015, 338, 114-123.	1.4	42
48	Nitrogen cycling in canopy soils of tropical montane forests responds rapidly to indirect N and P fertilization. Global Change Biology, 2014, 20, 3802-3813.	4.2	37
49	Soil redistribution by terracing alleviates soil organic carbon losses caused by forest conversion to rubber plantation. Forest Ecology and Management, 2014, 313, 26-33.	1.4	42
50	Asymbiotic biological nitrogen fixation in a temperate grassland as affected by management practices. Soil Biology and Biochemistry, 2014, 70, 38-46.	4.2	38
51	Nitrogen-oxide emissions from tropical forest soils exposed to elevated nitrogen input strongly interact with rainfall quantity and seasonality. Biogeochemistry, 2014, 118, 103-120.	1.7	41
52	Implementing REDD+ (Reducing Emissions from Deforestation and Degradation): evidence on governance, evaluation and impacts from the REDD-ALERT project. Mitigation and Adaptation Strategies for Global Change, 2014, 19, 907-925.	1.0	19
53	Determinants of fern and angiosperm herb community structure in lower montane rainforest in <scp>I</scp>ndonesia. Journal of Vegetation Science, 2014, 25, 1216-1224.	1.1	14
54	Nitrogen retention efficiency and nitrogen losses of a managed and phytodiverse temperate grassland. Basic and Applied Ecology, 2014, 15, 207-218.	1.2	11

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55	Nitrogen response efficiency of a managed and phytodiverse temperate grassland. Plant and Soil, 2013, 364, 193-206.	1.8	16
56	Responses of nitrous oxide fluxes and soil nitrogen cycling to nutrient additions in montane forests along an elevation gradient in southern Ecuador. Biogeochemistry, 2013, 112, 625-636.	1.7	64
57	Indications of nitrogen-limited methane uptake in tropical forest soils. Biogeosciences, 2013, 10, 5367-5379.	1.3	51
58	Soil Carbon Stocks Decrease following Conversion of Secondary Forests to Rubber (Hevea) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td	1.1	136
59	Effects of Nutrient Addition on the Productivity of Montane Forests and Implications for the Carbon Cycle. Ecological Studies, 2013, , 315-329.	0.4	18
60	Atmospheric methane uptake by tropical montane forest soils and the contribution of organic layers. Biogeochemistry, 2012, 111, 469-483.	1.7	41
61	An in-depth look into a tropical lowland forest soil: nitrogen-addition effects on the contents of N2O, CO2 and CH4 and N2O isotopic signatures down to 2-m depth. Biogeochemistry, 2012, 111, 695-713.	1.7	55
62	Tropical Andean Forests Are Highly Susceptible to Nutrient Inputsâ€”Rapid Effects of Experimental N and P Addition to an Ecuadorian Montane Forest. PLoS ONE, 2012, 7, e47128.	1.1	111
63	Response of nitrogen oxide emissions to grazer species and plant species composition in temperate agricultural grassland. Agriculture, Ecosystems and Environment, 2012, 151, 34-43.	2.5	37
64	Restoration of native vegetation following exclosure establishment on communal grazing lands in Tigray, Ethiopia. Applied Vegetation Science, 2012, 15, 71-83.	0.9	43
65	Nitrogen availability links forest productivity, soil nitrous oxide and nitric oxide fluxes of a tropical montane forest in southern Ecuador. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	1.9	98
66	Restoration of Ecosystem Carbon Stocks Following Exclosure Establishment in Communal Grazing Lands in Tigray, Ethiopia. Soil Science Society of America Journal, 2011, 75, 246-256.	1.2	70
67	Direct contribution of nitrogen deposition to nitrous oxide emissions in a temperate beech and spruce forest â€“ a ¹⁵N tracer study. Biogeosciences, 2011, 8, 621-635.	1.3	33
68	Multifunctional shade-tree management in tropical agroforestry landscapes - a review. Journal of Applied Ecology, 2011, 48, 619-629.	1.9	527
69	Economic valuation of land restoration: The case of exclosures established on communal grazing lands in Tigray, Ethiopia. Land Degradation and Development, 2011, 22, 334-344.	1.8	72
70	Simulated drought reduces soil CO₂efflux and production in a tropical forest in Sulawesi, Indonesia. Ecosphere, 2011, 2, art119.	1.0	34
71	Indirect feedbacks to rising CO2. Nature, 2011, 475, 177-178.	13.7	26
72	Geographic bias of field observations of soil carbon stocks with tropical land-use changes precludes spatial extrapolation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6318-6322.	3.3	225

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73	Carbon Changes Following the Establishment of Exclosure on Communal Grazing Lands in the Semi-Arid Lowlands of Tigray, Ethiopia. Climate Change Management, 2011, , 111-131.	0.6	2
74	Effects of an experimental drought on the functioning of a cacao agroforestry system, Sulawesi, Indonesia. Global Change Biology, 2010, 16, 1515-1530.	4.2	92
75	Methane emissions from tank bromeliads in neotropical forests. Nature Geoscience, 2010, 3, 766-769.	5.4	69
76	Spatial and temporal effects of drought on soil CO₂ efflux in a cacao agroforestry system in Sulawesi, Indonesia. Biogeosciences, 2010, 7, 1223-1235.	1.3	33
77	An inverse analysis reveals limitations of the soil-CO₂ profile method to calculate CO₂ production and efflux for well-structured soils. Biogeosciences, 2010, 7, 2311-2325.	1.3	34
78	Impact of elevated N input on soil N cycling and losses in oldâ€growth lowland and montane forests in Panama. Ecology, 2010, 91, 1715-1729.	1.5	149
79	Tropical Rainforests and Agroforests under Global Change. Environmental Science and Engineering, 2010, , .	0.1	14
80	Tropical rainforests and agroforests under global change: Ecological and socio-economic valuations â€" an introduction. Environmental Science and Engineering, 2010, , 1-11.	0.1	0
81	Chronic nitrogen addition causes a reduction in soil carbon dioxide efflux during the high stem-growth period in a tropical montane forest but no response from a tropical lowland forest on a decadal time scale. Biogeosciences, 2009, 6, 2973-2983.	1.3	29
82	Immediate and longâ€term nitrogen oxide emissions from tropical forest soils exposed to elevated nitrogen input. Global Change Biology, 2009, 15, 2049-2066.	4.2	119
83	Soil N cycling in old-growth forests across an Andosol toposequence in Ecuador. Forest Ecology and Management, 2009, 257, 2079-2087.	1.4	36
84	Stabilization of recent soil carbon in the humid tropics following land use changes: evidence from aggregate fractionation and stable isotope analyses. Biogeochemistry, 2008, 87, 247-263.	1.7	59
85	Soil organic carbon in density fractions of tropical soils under forest â€" pasture â€" secondary forest land use changes. European Journal of Soil Science, 2008, 59, 359-371.	1.8	48
86	Differing N status and N retention processes of soils under old-growth lowland forest in Eastern Amazonia, CaxiuanÃ£, Brazil. Soil Biology and Biochemistry, 2008, 40, 740-750.	4.2	86
87	Differential response of mineral-associated organic matter in tropical soils formed in volcanic ashes and marine Tertiary sediment to treatment with HCl, NaOCl, and Na4P2O7. Soil Biology and Biochemistry, 2008, 40, 1846-1855.	4.2	16
88	Cold storage and laboratory incubation of intact soil cores do not reflect in-situ nitrogen cycling rates of tropical forest soils. Soil Biology and Biochemistry, 2008, 40, 2480-2483.	4.2	63
89	Land use change effects on trace gas fluxes in the forest margins of Central Sulawesi, Indonesia. Journal of Geophysical Research, 2008, 113, .	3.3	41
90	Sample Pretreatment Affects the Distribution of Organic Carbon in Aggregates of Tropical Grassland Soils. Soil Science Society of America Journal, 2008, 72, 500-506.	1.2	12

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91	Nutrient flows and balances at the field and farm scale: Exploring effects of land-use strategies and access to resources. Agricultural Systems, 2007, 94, 459-470.	3.2	55
92	Halloysite versus gibbsite: Silicon cycling as a pedogenetic process in two lowland neotropical rain forest soils of La Selva, Costa Rica. Geoderma, 2007, 138, 1-11.	2.3	98
93	Effectiveness of exclosures to restore degraded soils as a result of overgrazing in Tigray, Ethiopia. Journal of Arid Environments, 2007, 69, 270-284.	1.2	270
94	Changes in nitrogen cycling and retention processes in soils under spruce forests along a nitrogen enrichment gradient in Germany. Global Change Biology, 2007, 13, 1509-1527.	4.2	122
95	Effects of an induced drought on soil carbon dioxide (CO₂) efflux and soil CO₂ production in an Eastern Amazonian rainforest, Brazil. Global Change Biology, 2007, 13, 2218-2229.	4.2	115
96	Trace gas fluxes and nitrogen cycling along an elevation sequence of tropical montane forests in Central Sulawesi, Indonesia. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	51
97	Landscape and climatic controls on spatial and temporal variation in soil CO2 efflux in an Eastern Amazonian Rainforest, CaxiuanÃ£, Brazil. Forest Ecology and Management, 2006, 237, 57-64.	1.4	81
98	Soil Nitrogen Cycling following Montane Forest Conversion in Central Sulawesi, Indonesia. Soil Science Society of America Journal, 2006, 70, 359-366.	1.2	58
99	Long-term CO2 production from deeply weathered soils of a tropical rain forest: evidence for a potential positive feedback to climate warming. Global Change Biology, 2006, 12, 1878-1893.	4.2	52
100	Smallholdersâ€™ Soil Fertility Management in the Central Highlands of Ethiopia: Implications for Nutrient Stocks, Balances and Sustainability of Agroecosystems. Nutrient Cycling in Agroecosystems, 2006, 75, 135-146.	1.1	61
101	Soil Carbon Stabilization in Converted Tropical Pastures and Forests Depends on Soil Type. Soil Science Society of America Journal, 2005, 69, 1110-1117.	1.2	67
102	Assessment of soil nutrient depletion and its spatial variability on smallholdersâ€™ mixed farming systems in Ethiopia using partial versus full nutrient balances. Agriculture, Ecosystems and Environment, 2005, 108, 1-16.	2.5	214
103	The Role of Dissolved Organic Carbon, Dissolved Organic Nitrogen, and Dissolved Inorganic Nitrogen in a Tropical Wet Forest Ecosystem. Ecosystems, 2005, 8, 339-351.	1.6	84
104	Are Partial Nutrient Balances Suitable to Evaluate Nutrient Sustainability of Land use Systems? Results from a Case Study in Central Sulawesi, Indonesia. Nutrient Cycling in Agroecosystems, 2005, 72, 201-212.	1.1	45
105	Regional variation in soil carbon and Î´13C in forests and pastures of northeastern Costa Rica. Biogeochemistry, 2005, 72, 315-336.	1.7	66
106	Nitrous oxide fluxes and nitrogen cycling along a pasture chronosequence in Central Amazonia, Brazil. Biogeosciences, 2005, 2, 175-187.	1.3	30
107	The Ecological and Economic Potential of Carbon Sequestration in Forests: Examples from South America. Ambio, 2005, 34, 224-229.	2.8	17
108	The ecological and economic potential of carbon sequestration in forests: examples from South America. Ambio, 2005, 34, 224-9.	2.8	1

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109	Is soil degradation unrelated to deforestation? Examining soil parameters of land use systems in upland Central Sulawesi, Indonesia. Plant and Soil, 2004, 265, 197-209.	1.8	45
110	Title is missing!. Biogeochemistry, 2003, 64, 111-128.	1.7	145
111	Substantial labile carbon stocks and microbial activity in deeply weathered soils below a tropical wet forest. Global Change Biology, 2003, 9, 1171-1184.	4.2	99
112	Stocks and flows of coarse woody debris across a tropical rain forest nutrient and topography gradient. Forest Ecology and Management, 2002, 164, 237-248.	1.4	160
113	Management effects on methane fluxes in humid tropical pasture soils. Soil Biology and Biochemistry, 2001, 33, 1493-1499.	4.2	38
114	Diurnal fluxes and the isotopomer ratios of N2O in a temperate grassland following urine amendment. Rapid Communications in Mass Spectrometry, 2001, 15, 1263-1269.	0.7	73
115	Effects of dung and urine amendments on the isotopic content of N2O released from grasslands. Rapid Communications in Mass Spectrometry, 2000, 14, 1356-1360.	0.7	46
116	Effects of Soil Texture on Belowground Carbon and Nutrient Storage in a Lowland Amazonian Forest Ecosystem. Ecosystems, 2000, 3, 193-209.	1.6	318
117	Calibration of a Frequency Domain Reflectometry Sensor for Humid Tropical Soils of Volcanic Origin. Soil Science Society of America Journal, 2000, 64, 1549-1553.	1.2	79
118	Intensive field measurements of nitrous oxide emissions from a tropical agricultural soil. Global Biogeochemical Cycles, 2000, 14, 85-95.	1.9	66
119	Testing a Conceptual Model of Soil Emissions of Nitrous and Nitric Oxides. BioScience, 2000, 50, 667.	2.2	743
120	Soil nitrogen cycling and nitrogen oxide emissions along a pasture chronosequence in the humid tropics of Costa Rica. Soil Biology and Biochemistry, 1999, 31, 387-394.	4.2	47
121	Nitrous oxide, nitric oxide, and methane fluxes from soils following clearing and burning of tropical secondary forest. Journal of Geophysical Research, 1998, 103, 28047-28058.	3.3	55
122	Effects of pasture management on N2O and NO emissions from soils in the humid tropics of Costa Rica. Global Biogeochemical Cycles, 1998, 12, 71-79.	1.9	123
123	Nitrogen oxide emissions from a banana plantation in the humid tropics. Journal of Geophysical Research, 1997, 102, 15889-15898.	3.3	94
124	Calibration of time domain reflectometry technique using undisturbed soil samples from humid tropical soils of volcanic origin. Water Resources Research, 1997, 33, 1241-1249.	1.7	82
125	Title is missing!. Biogeochemistry, 1997, 39, 343-375.	1.7	82
126	Fertilizer-induced nitric oxide emissions from agricultural soils. , 1997, 48, 69-77.		106

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127	If a Tree Falls in the Forest.... Science, 1996, 273, 201-0.	6.0	23
128	Organic Carbon Turnover in Three Tropical Soils under Pasture after Deforestation. Soil Science Society of America Journal, 1994, 58, 175-180.	1.2	338
129	Uncertainty analysis of Î´13C method in soil organic matter studies. Soil Biology and Biochemistry, 1994, 26, 153-160.	4.2	32
130	Effect of pasture age on soil trace-gas emissions from a deforested area of Costa Rica. Nature, 1993, 365, 244-246.	13.7	233
131	Micromorphological Characterization and Microchemical Quantification of Weathering in an Alkali Basalt Pebble. Soil Science Society of America Journal, 1993, 57, 128-134.	1.2	8
132	Deforestation trends in the Atlantic Zone of Costa Rica: A case study. Land Degradation and Development, 1992, 3, 71-84.	1.8	56
133	Alkali Basalt Gravel Weathering in Quaternary Allier River Terraces, Limagne, France. Soil Science Society of America Journal, 1990, 54, 1043-1048.	1.2	10
134	Weathering of alcali basalt gravel in two older Allier river terraces, Limagne, France. Chemical Geology, 1990, 84, 148-149.	1.4	2
135	Variation of measured banana yields in a Costa Rican plantation as explained by soil survey and thematic mapper data. Geoderma, 1990, 47, 337-348.	2.3	7