Ken E Giller

List of Publications by Year
in descending order

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395 papers	27,040 citations	6592 79 h-index	9073 144 g-index
408 all docs	408 docs citations	408 times ranked	18752 citing authors

#	Article	IF	Citations
1	Toxicity of heavy metals to microorganisms and microbial processes in agricultural soils: a review. Soil Biology and Biochemistry, 1998, 30, 1389-1414.	4.2	1,684
2	Conservation agriculture and smallholder farming in Africa: The hereticsâ€™ view. Field Crops Research, 2009, 114, 23-34.	2.3	1,021
3	When yield gaps are poverty traps: The paradigm of ecological intensification in African smallholder agriculture. Field Crops Research, 2013, 143, 76-90.	2.3	697
4	Interactions between Aboveground and Belowground Biodiversity in Terrestrial Ecosystems: Patterns, Mechanisms, and Feedbacks. BioScience, 2000, 50, 1049.	2.2	614
5	Organic inputs for soil fertility management in tropical agroecosystems: application of an organic resource database. Agriculture, Ecosystems and Environment, 2001, 83, 27-42.	2.5	548
6	Agricultural intensification, soil biodiversity and agroecosystem function. Applied Soil Ecology, 1997, 6, 3-16.	2.1	535
7	Residual soil phosphorus as the missing piece in the global phosphorus crisis puzzle. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6348-6353.	3.3	486
8	Atmospheric nitrogen deposition in world biodiversity hotspots: the need for a greater global perspective in assessing N deposition impacts. Global Change Biology, 2006, 12, 470-476.	4.2	471
9	The effect of long-term irrigation using wastewater on heavy metal contents of soils under vegetables in Harare, Zimbabwe. Agriculture, Ecosystems and Environment, 2005, 107, 151-165.	2.5	461
10	Integrated Soil Fertility Management. Outlook on Agriculture, 2010, 39, 17-24.	1.8	423
11	Are the rates of photosynthesis stimulated by the carbon sink strength of rhizobial and arbuscular mycorrhizal symbioses?. Soil Biology and Biochemistry, 2009, 41, 1233-1244.	4.2	400
12	Heavy metals and soil microbes. Soil Biology and Biochemistry, 2009, 41, 2031-2037.	4.2	373
13	Long-term effects of metals in sewage sludge on soils, microorganisms and plants. Journal of Industrial Microbiology, 1995, 14, 94-104.	0.9	368
14	Communicating complexity: Integrated assessment of trade-offs concerning soil fertility management within African farming systems to support innovation and development. Agricultural Systems, 2011, 104, 191-203.	3.2	339
15	Maizeâ€“grain legume intercropping is an attractive option for ecological intensification that reduces climatic risk for smallholder farmers in central Mozambique. Field Crops Research, 2012, 136, 12-22.	2.3	271
16	Yield gaps in oil palm: A quantitative review of contributing factors. European Journal of Agronomy, 2017, 83, 57-77.	1.9	271
17	Beyond conservation agriculture. Frontiers in Plant Science, 2015, 6, 870.	1.7	269
18	A fourth principle is required to define Conservation Agriculture in sub-Saharan Africa: The appropriate use of fertilizer to enhance crop productivity. Field Crops Research, 2014, 155, 10-13.	2.3	265

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19	Integrated soil fertility management in sub-Saharan Africa: unravelling local adaptation. Soil, 2015, 1, 491-508.	2.2	263
20	Resource use efficiency and environmental performance of nine major biofuel crops, processed by first-generation conversion techniques. Biomass and Bioenergy, 2010, 34, 588-601.	2.9	262
21	Popular myths around soil fertility management in sub-Saharan Africa. Agriculture, Ecosystems and Environment, 2006, 116, 34-46.	2.5	258
22	Drivers of household food availability in sub-Saharan Africa based on big data from small farms. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 458-463.	3.3	248
23	Influence of nutrient management strategies on variability of soil fertility, crop yields and nutrient balances on smallholder farms in Zimbabwe. Agriculture, Ecosystems and Environment, 2007, 119, 112-126.	2.5	228
24	Exploring diversity in soil fertility management of smallholder farms in western Kenya. Agriculture, Ecosystems and Environment, 2005, 110, 149-165.	2.5	215
25	Agronomic biofortification of crops to fight hidden hunger in sub-Saharan Africa. Global Food Security, 2017, 12, 8-14.	4.0	211
26	Closing the cassava yield gap: An analysis from smallholder farms in East Africa. Field Crops Research, 2009, 112, 24-36.	2.3	205
27	Exploring diversity in soil fertility management of smallholder farms in western Kenya. Agriculture, Ecosystems and Environment, 2005, 110, 166-184.	2.5	202
28	A research agenda to explore the role of conservation agriculture in African smallholder farming systems. Field Crops Research, 2011, 124, 468-472.	2.3	198
29	Regenerative Agriculture: An agronomic perspective. Outlook on Agriculture, 2021, 50, 13-25.	1.8	185
30	Resource use dynamics and interactions in the tropics: Scaling up in space and time. Agricultural Systems, 2006, 88, 8-27.	3.2	180
31	Unravelling the effects of soil and crop management on maize productivity in smallholder agricultural systems of western Kenyaâ€"An application of classification and regression tree analysis. Agriculture, Ecosystems and Environment, 2008, 123, 137-150.	2.5	180
32	Species Richness of Herbaceous Fen Vegetation in Broadland, Norfolk in Relation to the Quantity of Above-Ground Plant Material. Journal of Ecology, 1982, 70, 179.	1.9	177
33	Interactions between residues of maize and pigeonpea and mineral N fertilizers during decomposition and N mineralization. Soil Biology and Biochemistry, 2000, 32, 679-688.	4.2	174
34	Absence of nitrogen fixation in clover grown on soil subject to long-term contamination with heavy metals is due to survival of only ineffective Rhizobium. Soil Biology and Biochemistry, 1989, 21, 841-848.	4.2	172
35	The future of farming: Who will produce our food?. Food Security, 2021, 13, 1073-1099.	2.4	167
36	Soil type, management history and current resource allocation: Three dimensions regulating variability in crop productivity on African smallholder farms. Field Crops Research, 2007, 101, 296-305.	2.3	166

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37	Effects of Global Changes on Above- and Belowground Biodiversity in Terrestrial Ecosystems: Implications for Ecosystem Functioning. BioScience, 2000, 50, 1089.	2.2	165
38	Sustainable development goal 2: Improved targets and indicators for agriculture and food security. Ambio, 2019, 48, 685-698.	2.8	162
39	Nitrogen cycling efficiencies through resource-poor African cropâ€“livestock systems. Agriculture, Ecosystems and Environment, 2006, 112, 261-282.	2.5	157
40	Yield gaps, nutrient use efficiencies and response to fertilisers by maize across heterogeneous smallholder farms of western Kenya. Plant and Soil, 2008, 313, 19-37.	1.8	157
41	Decomposition and nitrogen release patterns of tree prunings and litter. Agroforestry Systems, 1997, 38, 77-97.	0.9	156
42	Multiple benefits of manure: The key to maintenance of soil fertility and restoration of depleted sandy soils on African smallholder farms. Nutrient Cycling in Agroecosystems, 2008, 80, 267-282.	1.1	146
43	Management of organic matter in the tropics: translating theory into practice. Nutrient Cycling in Agroecosystems, 2001, 61, 63-75.	1.1	142
44	Competing Claims on Natural Resources: What Role for Science?. Ecology and Society, 2008, 13, .	1.0	141
45	Sustainable intensification through rotations with grain legumes in Sub-Saharan Africa: A review. Agriculture, Ecosystems and Environment, 2018, 261, 172-185.	2.5	141
46	Comparative performance of conservation agriculture and current smallholder farming practices in semi-arid Zimbabwe. Field Crops Research, 2012, 132, 117-128.	2.3	139
47	The quest for a contemporary ecological dimension to soil biology. Soil Biology and Biochemistry, 1996, 28, 1549-1554.	4.2	133
48	Maize-grain legume intercropping for enhanced resource use efficiency and crop productivity in the Guinea savanna of northern Ghana. Field Crops Research, 2017, 213, 38-50.	2.3	128
49	Regulating N release from legume tree prunings by mixing residues of different quality. Soil Biology and Biochemistry, 1997, 29, 1417-1426.	4.2	127
50	Heterogeneity of crop productivity and resource use efficiency within smallholder Kenyan farms: Soil fertility gradients or management intensity gradients?. Agricultural Systems, 2007, 94, 376-390.	3.2	127
51	Diversity of Rhizobia Nodulating Phaseolus vulgaris L. in Two Kenyan Soils with Contrasting pHs. Applied and Environmental Microbiology, 1995, 61, 4016-4021.	1.4	125
52	Soyabeans and sustainable agriculture. Field Crops Research, 2000, 65, 137-149.	2.3	119
53	Understanding variability in soybean yield and response to P-fertilizer and rhizobium inoculants on farmersâ€™ fields in northern Nigeria. Field Crops Research, 2016, 186, 133-145.	2.3	119
54	The role of legumes in the sustainable intensification of African smallholder agriculture: Lessons learnt and challenges for the future. Agriculture, Ecosystems and Environment, 2019, 284, 106583.	2.5	118

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55	In search of the elusive â€œactiveâ€•fraction of soil organic matter: Three size-density fractionation methods for tracing the fate of homogeneously 14C-labelled plant materials. Soil Biology and Biochemistry, 1996, 28, 89-99.	4.2	115
56	Manure as a key resource within smallholder farming systems: Analysing farm-scale nutrient cycling efficiencies with the NUANCES framework. Livestock Science, 2007, 112, 273-287.	0.6	115
57	Competing use of organic resources, village-level interactions between farm types and climate variability in a communal area of NE Zimbabwe. Agricultural Systems, 2011, 104, 175-190.	3.2	111
58	Responses of legumes to rhizobia and arbuscular mycorrhizal fungi: A meta-analysis of potential photosynthate limitation of symbioses. Soil Biology and Biochemistry, 2010, 42, 125-127.	4.2	106
59	Analysis of trade-offs in agricultural systems: current status and way forward. Current Opinion in Environmental Sustainability, 2014, 6, 110-115.	3.1	105
60	Title is missing!. Nutrient Cycling in Agroecosystems, 1999, 54, 99-112.	1.1	104
61	The Effects of Salinity and Sodicity upon Nodulation and Nitrogen Fixation in Chickpea (Cicer) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.4	104
62	Climate change adaptation and mitigation in smallholder cropâ€“livestock systems in sub-Saharan Africa: a call for integrated impact assessments. Regional Environmental Change, 2016, 16, 2331-2343.	1.4	100
63	Heavy metals from past applications of sewage sludge decrease the genetic diversity of rhizobium leguminosarum biovar trifolii populations. Soil Biology and Biochemistry, 1993, 25, 1485-1490.	4.2	99
64	Participatory action research (PAR) as an entry point for supporting climate change adaptation by smallholder farmers in Africa. Environmental Development, 2013, 5, 6-22.	1.8	99
65	Agriculture and nature: Trouble and strife?. Biological Conservation, 2014, 170, 232-245.	1.9	98
66	A framework for priority-setting in climate smart agriculture research. Agricultural Systems, 2018, 167, 161-175.	3.2	95
67	Nitrogen fixation by groundnut and soyabean and residual nitrogen benefits to rice in farmers' fields in Northeast Thailand. Plant and Soil, 1995, 175, 45-56.	1.8	93
68	Effects of climate variability and climate change on crop production in southern Mali. European Journal of Agronomy, 2013, 49, 115-125.	1.9	93
69	Niche-based assessment of contributions of legumes to the nitrogen economy of Western Kenya smallholder farms. Plant and Soil, 2007, 292, 119-135.	1.8	91
70	Rice production with less irrigation water is possible in a Sahelian environment. Field Crops Research, 2010, 116, 154-164.	2.3	90
71	Agricultural intensification, soil biodiversity and ecosystem function in the tropics: the role of nitrogen-fixing bacteria. Applied Soil Ecology, 1997, 6, 55-76.	2.1	88
72	Building Soil Nitrogen Capital in Africa. SSSA Special Publication Series, 0, , 151-192.	0.2	88

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73	Evaluating coffee yield gaps and important biotic, abiotic, and management factors limiting coffee production in Uganda. European Journal of Agronomy, 2015, 63, 1-11.	1.9	88
74	Climate-smart agroforestry: Faidherbia albida trees buffer wheat against climatic extremes in the Central Rift Valley of Ethiopia. Agricultural and Forest Meteorology, 2018, 248, 339-347.	1.9	87
75	Uptake of heavy metals by vegetables irrigated using wastewater and the subsequent risks in Harare, Zimbabwe. Physics and Chemistry of the Earth, 2007, 32, 1399-1405.	1.2	85
76	De-mystifying family farming: Features, diversity and trends across the globe. Global Food Security, 2015, 5, 11-18.	4.0	84
77	The Food Security Conundrum of sub-Saharan Africa. Global Food Security, 2020, 26, 100431.	4.0	84
78	Effective Rhizobium leguminosarum biovar Trifolii present in five soils contaminated with heavy metals from long-term applications of sewage sludge or metal mine spoil. Soil Biology and Biochemistry, 1992, 24, 781-788.	4.2	83
79	Carbon turnover (Î´13C) and nitrogen mineralization potential of particulate light soil organic matter after rainforest clearing. Soil Biology and Biochemistry, 1996, 28, 1555-1567.	4.2	83
80	Rhizobium leguminosarum bv. viciae populations in soils with increasing heavy metal contamination: abundance, plasmid profiles, diversity and metal tolerance. Soil Biology and Biochemistry, 2002, 34, 519-529.	4.2	83
81	Analysing trade-offs in resource and labour allocation by smallholder farmers using inverse modelling techniques: A case-study from Kakamega district, western Kenya. Agricultural Systems, 2007, 95, 76-95.	3.2	83
82	Beyond resource constraints â€“ Exploring the biophysical feasibility of options for the intensification of smallholder crop-livestock systems in Vihiga district, Kenya. Agricultural Systems, 2009, 101, 1-19.	3.2	83
83	The Diversity of Phaseolus -Nodulating Rhizobial Populations Is Altered by Liming of Acid Soils Planted with Phaseolus vulgaris L. in Brazil. Applied and Environmental Microbiology, 2002, 68, 4025-4034.	1.4	82
84	Failing to Yield? Ploughs, Conservation Agriculture and the Problem of Agricultural Intensification: An Example from the Zambezi Valley, Zimbabwe. Journal of Development Studies, 2012, 48, 393-412.	1.2	82
85	Climate change and maize yield in southern Africa: what can farm management do?. Global Change Biology, 2015, 21, 4588-4601.	4.2	81
86	15N natural abundance as a tool for assessing N2-fixation of herbaceous, shrub and tree legumes in improved fallows. Soil Biology and Biochemistry, 2002, 34, 1059-1071.	4.2	80
87	Complex contexts and dynamic drivers: Understanding four decades of forest loss and recovery in an East African protected area. Biological Conservation, 2013, 159, 257-268.	1.9	80
88	Nutrient use efficiencies and crop responses to N, P and manure applications in Zimbabwean soils: Exploring management strategies across soil fertility gradients. Field Crops Research, 2007, 100, 348-368.	2.3	79
89	N2-fixation and N contribution by grain legumes under different soil fertility status and cropping systems in the Guinea savanna of northern Ghana. Agriculture, Ecosystems and Environment, 2018, 261, 201-210.	2.5	75
90	Distribution and diversity of rhizobia nodulating agroforestry legumes in soils from three continents in the tropics. Molecular Ecology, 2003, 12, 917-929.	2.0	74

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91	Carbon and nutrient losses during manure storage under traditional and improved practices in smallholder crop-livestock systemsâ€"evidence from Kenya. Plant and Soil, 2010, 328, 253-269.	1.8	74
92	Biofuel, dairy production and beef in Brazil: competing claims on land use in SÃ£o Paulo state. Journal of Peasant Studies, 2010, 37, 769-792.	3.0	74
93	Sources of vulnerability to a variable and changing climate among smallholder households in Zimbabwe: A participatory analysis. Climate Risk Management, 2014, 3, 65-78.	1.6	74
94	Modified rice cultivation in Tamil Nadu, India: Yield gains and farmersâ€™ (lack of) acceptance. Agricultural Systems, 2008, 98, 82-94.	3.2	72
95	Combining Organic and Mineral Fertilizers for Integrated Soil Fertility Management in Smallholder Farming Systems of Kenya: Explorations Using the Cropâ€Soil Model FIELD. Agronomy Journal, 2008, 100, 1511-1526.	0.9	72
96	Small farms and development in sub-Saharan Africa: Farming for food, for income or for lack of better options?. Food Security, 2021, 13, 1431-1454.	2.4	72
97	Testing the safety-net role of hedgerow tree roots by 15N placement at different soil depths. Agroforestry Systems, 1998, 43, 81-93.	0.9	71
98	Feeding, crop residue and manure management for integrated soil fertility management â€“ A case study from Kenya. Agricultural Systems, 2015, 134, 24-35.	3.2	71
99	Mineral N dynamics, leaching and nitrous oxide losses under maize following two-year improved fallows on a sandy loam soil in Zimbabwe. Plant and Soil, 2004, 259, 315-330.	1.8	70
100	Managing soil fertility diversity to enhance resource use efficiencies in smallholder farming systems: a case from Murewa District, Zimbabwe. Nutrient Cycling in Agroecosystems, 2011, 90, 87-103.	1.1	68
101	Woody legume fallow productivity, biological N2-fixation and residual benefits to two successive maize crops in Zimbabwe. Plant and Soil, 2004, 262, 303-315.	1.8	67
102	Pushing the envelope? Maize production intensification and the role of cattle manure in recovery of degraded soils in smallholder farming areas of Zimbabwe. Field Crops Research, 2013, 147, 40-53.	2.3	67
103	Influence of decomposition of roots of tropical forage species on the availability of soil nitrogen. Soil Biology and Biochemistry, 1998, 30, 2099-2106.	4.2	66
104	Symbiotic specificity of tropical tree rhizobia for host legumes. New Phytologist, 2001, 149, 495-507.	3.5	65
105	Key role of China and its agriculture in global sustainable phosphorus management. Environmental Research Letters, 2014, 9, 054003.	2.2	65
106	Genome Editing, Gene Drives, and Synthetic Biology: Will They Contribute to Disease-Resistant Crops, and Who Will Benefit?. Annual Review of Phytopathology, 2019, 57, 165-188.	3.5	64
107	Assessing Risks of Heavy Metal Toxicity in Agricultural Soils: Do Microbes Matter?. Human and Ecological Risk Assessment (HERA), 1999, 5, 683-689.	1.7	63
108	Identifying key entry-points for strategic management of smallholder farming systems in sub-Saharan Africa using the dynamic farm-scale simulation model NUANCES-FARMSIM. Agricultural Systems, 2009, 102, 89-101.	3.2	63

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109	Evaluating sustainable and profitable cropping sequences with cassava and four legume crops: Effects on soil fertility and maize yields in the forest/savannah transitional agro-ecological zone of Ghana. Field Crops Research, 2007, 103, 87-97.	2.3	62
110	Estimates of the residual nitrogen benefit of groundnut to maize in Northeast Thailand. Plant and Soil, 1993, 154, 267-277.	1.8	60
111	Maize productivity and mineral N dynamics following different soil fertility management practices on a depleted sandy soil in Zimbabwe. Agriculture, Ecosystems and Environment, 2004, 102, 119-131.	2.5	60
112	Productivity and residual benefits of grain legumes to sorghum under semi-arid conditions in southwestern Zimbabwe. Plant and Soil, 2007, 299, 1-15.	1.8	60
113	Simulating potential growth and yield of oil palm (Elaeis guineensis) with PALMSIM: Model description, evaluation and application. Agricultural Systems, 2014, 131, 1-10.	3.2	60
114	Additive yield response of chickpea (Cicer arietinum L.) to rhizobium inoculation and phosphorus fertilizer across smallholder farms in Ethiopia. Agriculture, Ecosystems and Environment, 2018, 261, 144-152.	2.5	60
115	The Missing Middle: Connected action on agriculture and nutrition across global, national and local levels to achieve Sustainable Development Goal 2. Global Food Security, 2020, 24, 100336.	4.0	60
116	Courting the rain: Rethinking seasonality and adaptation to recurrent drought in semi-arid southern Africa. Agricultural Systems, 2013, 118, 91-104.	3.2	59
117	Is production intensification likely to make farm households food-adequate? A simple food availability analysis across smallholder farming systems from East and West Africa. Food Security, 2017, 9, 115-131.	2.4	58
118	Drivers of land use change and household determinants of sustainability in smallholder farming systems of Eastern Uganda. Population and Environment, 2010, 31, 474-506.	1.3	57
119	Implications of livestock feeding management on soil fertility in the smallholder farming systems of sub-Saharan Africa. Agriculture, Ecosystems and Environment, 2001, 84, 227-243.	2.5	56
120	Farmersâ€™ agronomic and social evaluation of productivity, yield and N2-fixation in different cowpea varieties and their subsequent residual N effects on a succeeding maize crop. Nutrient Cycling in Agroecosystems, 2008, 80, 199.	1.1	56
121	Fertiliser requirements for balanced nutrition of cassava across eight locations in West Africa. Field Crops Research, 2016, 185, 69-78.	2.3	56
122	Benefits of legumeâ€“maize rotations: Assessing the impact of diversity on the productivity of smallholders in Western Kenya. Field Crops Research, 2014, 168, 75-85.	2.3	55
123	Which farmers benefit most from sustainable intensification? An ex-ante impact assessment of expanding grain legume production in Malawi. European Journal of Agronomy, 2014, 58, 28-38.	1.9	54
124	Tapping indigenous herbaceous legumes for soil fertility management by resource-poor farmers in Zimbabwe. Agriculture, Ecosystems and Environment, 2005, 109, 221-233.	2.5	53
125	What is â€˜conventionalâ€™ agriculture?. Global Food Security, 2022, 32, 100617.	4.0	53
126	Increasing land pressure in East Africa: The changing role of cassava and consequences for sustainability of farming systems. Agriculture, Ecosystems and Environment, 2008, 128, 239-250.	2.5	52

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127	Mineral Nutrition of Cocoa. Advances in Agronomy, 2017, , 185-270.	2.4	52
128	BEYOND AVERAGES: NEW APPROACHES TO UNDERSTAND HETEROGENEITY AND RISK OF TECHNOLOGY SUCCESS OR FAILURE IN SMALLHOLDER FARMING. Experimental Agriculture, 2019, 55, 84-106.	0.4	52
129	Impact of no tillage and mulching practices on cotton production in North Cameroon: A multi-locational on-farm assessment. Soil and Tillage Research, 2010, 108, 68-76.	2.6	51
130	Comparative assessment of maize, finger millet and sorghum for household food security in the face of increasing climatic risk. European Journal of Agronomy, 2014, 55, 29-41.	1.9	51
131	Nitrogen Release from Decomposing Residues of Leguminous Cover Crops and their Effect on Maize Yield on Depleted Soils of Bukoba District, Tanzania. Plant and Soil, 2006, 279, 77-93.	1.8	50
132	Benefits of inoculation, P fertilizer and manure on yields of common bean and soybean also increase yield of subsequent maize. Agriculture, Ecosystems and Environment, 2018, 261, 219-229.	2.5	50
133	Allometric growth relationships of East Africa highland bananas (Musa AAAâ€EAHB) cv. Kisansa and Mbwazirume. Annals of Applied Biology, 2009, 155, 403-418.	1.3	49
134	Lifetime productivity of dairy cows in smallholder farming systems of the Central highlands of Kenya. Animal, 2009, 3, 1044-1056.	1.3	49
135	Managing soil fertility to adapt to rainfall variability in smallholder cropping systems in Zimbabwe. Field Crops Research, 2013, 154, 211-225.	2.3	49
136	Dynamics of banana-based farming systems in Bukoba district, Tanzania: changes in land use, cropping and cattle keeping. Agriculture, Ecosystems and Environment, 2005, 106, 395-406.	2.5	48
137	Symbiotic effectiveness and host ranges of indigenous rhizobia nodulating promiscuous soyabean varieties in Zimbabwean soils. Soil Biology and Biochemistry, 2005, 37, 1169-1176.	4.2	48
138	Mineral fertilizer response and nutrient use efficiencies of East African highland banana (Musa spp.,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.3	48
139	Photosynthetic adaptation of soybean due to varying effectiveness of N2 fixation by two distinct Bradyrhizobium japonicum strains. Environmental and Experimental Botany, 2012, 76, 1-6.	2.0	48
140	Modelling cereal crops to assess future climate risk for family food self-sufficiency in southern Mali. Field Crops Research, 2017, 201, 133-145.	2.3	48
141	Co-learning cycles to support the design of innovative farm systems in southern Mali. European Journal of Agronomy, 2017, 89, 61-74.	1.9	48
142	A Research Road Map for Responsible Use of Agricultural Nitrogen. Frontiers in Sustainable Food Systems, 2021, 5, .	1.8	48
143	Precision farming for increased land and labour productivity in semi-arid West Africa. A review. Agronomy for Sustainable Development, 2017, 37, 1.	2.2	47
144	Fuelwood collection and its impacts on a protected tropical mountain forest in Uganda. Forest Ecology and Management, 2015, 354, 56-67.	1.4	45

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145	Tillage, mulch and fertiliser impacts on soil nitrogen availability and maize production in semi-arid Zimbabwe. Soil and Tillage Research, 2017, 168, 125-132.	2.6	45
146	Immobilized 15N-fertilizer sources improve the accuracy of field estimates of N2-fixation by isotope dilution. Soil Biology and Biochemistry, 1987, 19, 459-463.	4.2	44
147	Title is missing!. Plant and Soil, 2002, 245, 169-180.	1.8	44
148	Strong spatial-temporal patterns in maize yield response to nutrient additions in African smallholder farms. Field Crops Research, 2017, 214, 321-330.	2.3	44
149	Is labour a major determinant of yield gaps in sub-Saharan Africa? A study of cereal-based production systems in Southern Ethiopia. Agricultural Systems, 2019, 174, 39-51.	3.2	44
150	Is maize-cowpea intercropping a viable option for smallholder farms in the risky environments of semi-arid southern Africa?. Field Crops Research, 2017, 209, 73-87.	2.3	43
151	Collective action in a smallholder oil palm production system in Indonesia: The key to sustainable and inclusive smallholder palm oil?. Journal of Rural Studies, 2017, 54, 198-210.	2.1	43
152	Effect of farmer management strategies on spatial variability of soil fertility and crop nutrient uptake in contrasting agro-ecological zones in Zimbabwe. Nutrient Cycling in Agroecosystems, 2010, 88, 111-120.	1.1	42
153	Unravelling the causes of variability in crop yields and treatment responses for better tailoring of options for sustainable intensification in southern Mali. Field Crops Research, 2016, 187, 113-126.	2.3	42
154	Migration and Self-Protection Against Climate Change: A Case Study of Samburu County, Kenya. World Development, 2016, 84, 55-68.	2.6	42
155	WHICH OPTIONS FIT BEST? OPERATIONALIZING THE SOCIO-ECOLOGICAL NICHE CONCEPT. Experimental Agriculture, 2019, 55, 169-190.	0.4	42
156	Use and abuse of the acetylene reduction assay for measurement of â€œassociativeâ€•nitrogen fixation. Soil Biology and Biochemistry, 1987, 19, 783-784.	4.2	41
157	Title is missing!. Agroforestry Systems, 2003, 57, 199-211.	0.9	41
158	Towards understanding factors that govern fertilizer response in cassava: lessons from East Africa. Nutrient Cycling in Agroecosystems, 2010, 86, 133-151.	1.1	41
159	Application of Fuzzy Cognitive Mapping in Livelihood Vulnerability Analysis. Ecology and Society, 2011, 16, .	1.0	41
160	Tillage and vegetative barrier effects on soil conservation and short-term economic benefits in the Central Kenya highlands. Field Crops Research, 2011, 122, 85-94.	2.3	41
161	Do Species Mixtures Increase Aboveâ€•and Belowground Resource Capture in Woody and Herbaceous Tropical Legumes?. Agronomy Journal, 2002, 94, 518-526.	0.9	40
162	Are traditional home gardens in southern Ethiopia heading for extinction? Implications for productivity, plant species richness and food security. Agriculture, Ecosystems and Environment, 2018, 252, 1-13.	2.5	40

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163	A comparison of nitrogen fixation in genotypes of groundnut (Arachis hypogaea L.) using 15N-isotope dilution. Biology and Fertility of Soils, 1987, 5, 23.	2.3	39
164	Manure and soil properties affect survival and persistence of soyabean nodulating rhizobia in smallholder soils of Zimbabwe. Applied Soil Ecology, 2006, 32, 232-242.	2.1	39
165	Exploring diversity of crop and soil management within smallholder African farms: A dynamic model for simulation of N balances and use efficiencies at field scale. Agricultural Systems, 2006, 91, 71-101.	3.2	39
166	Soyabeans and sustainable agriculture in southern Africa. International Journal of Agricultural Sustainability, 2011, 9, 50-58.	1.3	39
167	MAKING THE MOST OF IMPERFECT DATA: A CRITICAL EVALUATION OF STANDARD INFORMATION COLLECTED IN FARM HOUSEHOLD SURVEYS. Experimental Agriculture, 2019, 55, 230-250.	0.4	39
168	Soil organic carbon dynamics of improved fallow-maize rotation systems under conventional and no-tillage in Central Zimbabwe. Nutrient Cycling in Agroecosystems, 2008, 81, 85-93.	1.1	38
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