Johan Six

List of Publications by Year in descending order

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389 papers	53,484 citations	1697 104 h-index	1527 218 g-index
443 all docs	443 docs citations	443 times ranked	28697 citing authors

#	Article	IF	Citations
1	Stabilization mechanisms of soil organic matter: Implications for C-saturation of soils. Plant and Soil, 2002, 241, 155-176.	1.8	3,176
2	A history of research on the link between (micro)aggregates, soil biota, and soil organic matter dynamics. Soil and Tillage Research, 2004, 79, 7-31.	2.6	2,884
3	Soil macroaggregate turnover and microaggregate formation: a mechanism for C sequestration under no-tillage agriculture. Soil Biology and Biochemistry, 2000, 32, 2099-2103.	4.2	2,360
4	Bacterial and Fungal Contributions to Carbon Sequestration in Agroecosystems. Soil Science Society of America Journal, 2006, 70, 555-569.	1.2	1,541
5	Aggregation and Soil Organic Matter Accumulation in Cultivated and Native Grassland Soils. Soil Science Society of America Journal, 1998, 62, 1367-1377.	1.2	1,312
6	Soil Structure and Organic Matter I. Distribution of Aggregateâ€Size Classes and Aggregateâ€Associated Carbon. Soil Science Society of America Journal, 2000, 64, 681-689.	1.2	1,168
7	Aggregate and Soil Organic Matter Dynamics under Conventional and Noâ€Tillage Systems. Soil Science Society of America Journal, 1999, 63, 1350-1358.	1.2	1,102
8	Productivity limits and potentials of the principles of conservation agriculture. Nature, 2015, 517, 365-368.	13.7	1,005
9	Soil organic matter, biota and aggregation in temperate and tropical soils - Effects of no-tillage. Agronomy for Sustainable Development, 2002, 22, 755-775.	0.8	980
10	The Impact of Agricultural Soil Erosion on the Global Carbon Cycle. Science, 2007, 318, 626-629.	6.0	802
11	Efficiency of Fertilizer Nitrogen in Cereal Production: Retrospects and Prospects. Advances in Agronomy, 2005, , 85-156.	2.4	794
12	The potential to mitigate global warming with no-tillage management is only realized when practised in the long term. Global Change Biology, 2004, 10, 155-160.	4.2	658
13	Management options for reducing CO2 emissions from agricultural soils. Biogeochemistry, 2000, 48, 147-163.	1.7	643
14	Soil carbon saturation: concept, evidence and evaluation. Biogeochemistry, 2007, 86, 19-31.	1.7	623
15	The temperature response of soil microbial efficiency and its feedback to climate. Nature Climate Change, 2013, 3, 395-398.	8.1	604
16	Soil carbon storage informed by particulate and mineral-associated organic matter. Nature Geoscience, 2019, 12, 989-994.	5.4	588
17	Aggregate-associated soil organic matter as an ecosystem property and a measurement tool. Soil Biology and Biochemistry, 2014, 68, A4-A9.	4.2	565
18	The Relationship between Carbon Input, Aggregation, and Soil Organic Carbon Stabilization in Sustainable Cropping Systems. Soil Science Society of America Journal, 2005, 69, 1078-1085.	1.2	564

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19	Influence of dryâ€“wet cycles on the interrelationship between aggregate, particulate organic matter, and microbial community dynamics. Soil Biology and Biochemistry, 2001, 33, 1599-1611.	4.2	560
20	When does no-till yield more? A global meta-analysis. Field Crops Research, 2015, 183, 156-168.	2.3	538
21	Soil biodiversity and human health. Nature, 2015, 528, 69-76.	13.7	532
22	Illuminated darkness: Molecular signatures of Congo River dissolved organic matter and its photochemical alteration as revealed by ultrahigh precision mass spectrometry. Limnology and Oceanography, 2010, 55, 1467-1477.	1.6	527
23	Measuring and Understanding Carbon Storage in Afforested Soils by Physical Fractionation. Soil Science Society of America Journal, 2002, 66, 1981-1987.	1.2	510
24	Soil carbon storage controlled by interactions between geochemistry and climate. Nature Geoscience, 2015, 8, 780-783.	5.4	509
25	Interactions between plant growth and soil nutrient cycling under elevated CO2 : a meta-analysis. Global Change Biology, 2006, 12, 2077-2091.	4.2	504
26	The interdisciplinary nature of <i>SOIL</i>. Soil, 2015, 1, 117-129.	2.2	494
27	Object-based crop identification using multiple vegetation indices, textural features and crop phenology. Remote Sensing of Environment, 2011, 115, 1301-1316.	4.6	488
28	Integrating plant litter quality, soil organic matter stabilization, and the carbon saturation concept. Global Change Biology, 2015, 21, 3200-3209.	4.2	456
29	Food system resilience: Defining the concept. Global Food Security, 2015, 6, 17-23.	4.0	456
30	Permanganate Oxidizable Carbon Reflects a Processed Soil Fraction that is Sensitive to Management. Soil Science Society of America Journal, 2012, 76, 494-504.	1.2	436
31	Soil Structure and Soil Organic Matter II. A Normalized Stability Index and the Effect of Mineralogy. Soil Science Society of America Journal, 2000, 64, 1042-1049.	1.2	406
32	Influence of microbial populations and residue quality on aggregate stability. Applied Soil Ecology, 2001, 16, 195-208.	2.1	382
33	Climate, duration, and N placement determine N₂O emissions in reduced tillage systems: a metaâ€analysis. Global Change Biology, 2013, 19, 33-44.	4.2	347
34	Greenhouse-gas emissions from soils increased by earthworms. Nature Climate Change, 2013, 3, 187-194.	8.1	342
35	Sensitivity of organic matter decomposition to warming varies with its quality. Global Change Biology, 2008, 14, 868-877.	4.2	335
36	Use of Chemical and Physical Characteristics To Investigate Trends in Biochar Feedstocks. Journal of Agricultural and Food Chemistry, 2013, 61, 2196-2204.	2.4	333

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37	Bacterial and Fungal Cellâ€Wall Residues in Conventional and Noâ€Tillage Agroecosystems. Soil Science Society of America Journal, 1999, 63, 1188-1198.	1.2	318
38	Element interactions limit soil carbon storage. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6571-6574.	3.3	318
39	Determining soil carbon stock changes: Simple bulk density corrections fail. Agriculture, Ecosystems and Environment, 2009, 134, 251-256.	2.5	318
40	Long-term impact of reduced tillage and residue management on soil carbon stabilization: Implications for conservation agriculture on contrasting soils. Soil and Tillage Research, 2007, 94, 328-337.	2.6	312
41	Protection of soil carbon by microaggregates within earthworm casts. Soil Biology and Biochemistry, 2005, 37, 251-258.	4.2	310
42	Agronomic use efficiency of N fertilizer in maize-based systems in sub-Saharan Africa within the context of integrated soil fertility management. Plant and Soil, 2011, 339, 35-50.	1.8	309
43	Soil organic carbon pool changes following landâ€use conversions. Global Change Biology, 2004, 10, 1120-1132.	4.2	305
44	Intercropping enhances soil carbon and nitrogen. Global Change Biology, 2015, 21, 1715-1726.	4.2	286
45	Assessing the impact of land-use change on soil C sequestration in agricultural soils by means of organic matter fractionation and stable C isotopes. Global Change Biology, 2003, 9, 1204-1213.	4.2	283
46	Soil Carbon Saturation Controls Labile and Stable Carbon Pool Dynamics. Soil Science Society of America Journal, 2008, 72, 605-612.	1.2	278
47	Sources and composition of soil organic matter fractions between and within soil aggregates. European Journal of Soil Science, 2001, 52, 607-618.	1.8	277
48	Isolating organic carbon fractions with varying turnover rates in temperate agricultural soils â€“ A comprehensive method comparison. Soil Biology and Biochemistry, 2018, 125, 10-26.	4.2	269
49	Considering the influence of sequestration duration and carbon saturation on estimates of soil carbon capacity. Climatic Change, 2007, 80, 25-41.	1.7	267
50	Importance of macroaggregate dynamics in controlling soil carbon stabilization: short-term effects of physical disturbance induced by dryâ€“wet cycles. Soil Biology and Biochemistry, 2001, 33, 2145-2153.	4.2	260
51	Photochemical degradation of dissolved organic matter and dissolved lignin phenols from the Congo River. Journal of Geophysical Research, 2009, 114, .	3.3	252
52	Soil Carbon Saturation: Linking Concept and Measurable Carbon Pools. Soil Science Society of America Journal, 2008, 72, 379-392.	1.2	244
53	Carbon Sequestration in Microaggregates of Noâ€Tillage Soils with Different Clay Mineralogy. Soil Science Society of America Journal, 2004, 68, 1935-1944.	1.2	243
54	Soil texture affects soil microbial and structural recovery during grassland restoration. Soil Biology and Biochemistry, 2010, 42, 2182-2191.	4.2	240

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55	Impact of Soil Texture on the Distribution of Soil Organic Matter in Physical and Chemical Fractions. Soil Science Society of America Journal, 2006, 70, 287-296.	1.2	234
56	Reciprocal transfer of carbon and nitrogen by decomposer fungi at the soilâ€“litter interface. Soil Biology and Biochemistry, 2003, 35, 1001-1004.	4.2	230
57	Do growth yield efficiencies differ between soil microbial communities differing in fungal:bacterial ratios? Reality check and methodological issues. Soil Biology and Biochemistry, 2006, 38, 837-844.	4.2	215
58	Aligning agriculture and climate policy. Nature Climate Change, 2017, 7, 307-309.	8.1	213
59	Does the combined application of organic and mineral nutrient sources influence maize productivity? A meta-analysis. Plant and Soil, 2011, 342, 1-30.	1.8	210
60	Arbuscular Mycorrhizas, Microbial Communities, Nutrient Availability, and Soil Aggregates in Organic Tomato Production. Plant and Soil, 2006, 282, 209-225.	1.8	205
61	Earthworms and management affect organic matter incorporation and microaggregate formation in agricultural soils. Applied Soil Ecology, 2005, 29, 1-15.	2.1	196
62	Microaggregate-associated carbon as a diagnostic fraction for management-induced changes in soil organic carbon in two Oxisols. Soil Biology and Biochemistry, 2007, 39, 1165-1172.	4.2	196
63	Title is missing!. Plant and Soil, 2002, 246, 185-200.	1.8	195
64	Soil Biodiversity and the Environment. Annual Review of Environment and Resources, 2015, 40, 63-90.	5.6	194
65	EXPERIMENTAL WARMING SHOWS THAT DECOMPOSITION TEMPERATURE SENSITIVITY INCREASES WITH SOIL ORGANIC MATTER RECALCITRANCE. Ecology, 2008, 89, 2384-2391.	1.5	191
66	Agroecology: A Review from a Global-Change Perspective. Annual Review of Environment and Resources, 2011, 36, 193-222.	5.6	191
67	Clay mineralogy determines the importance of biological versus abiotic processes for macroaggregate formation and stabilization. European Journal of Soil Science, 2005, 56, 469-479.	1.8	189
68	A quantification of short-term macroaggregate dynamics: influences of wheat residue input and texture. Soil Biology and Biochemistry, 2005, 37, 55-66.	4.2	188
69	Carbon cycling in eroding landscapes: geomorphic controls on soil organic C pool composition and C stabilization. Global Change Biology, 2012, 18, 2218-2232.	4.2	187
70	Medium-term impact of tillage and residue management on soil aggregate stability, soil carbon and crop productivity. Agriculture, Ecosystems and Environment, 2013, 164, 14-22.	2.5	186
71	Role of Soil Erosion in Biogeochemical Cycling of Essential Elements: Carbon, Nitrogen, and Phosphorus. Annual Review of Earth and Planetary Sciences, 2018, 46, 521-548.	4.6	184
72	Assessing the effect of elevated carbon dioxide on soil carbon: a comparison of four metaâ€analyses. Global Change Biology, 2009, 15, 2020-2034.	4.2	180

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73	Improving estimates of maximal organic carbon stabilization by fine soil particles. Biogeochemistry, 2013, 112, 81-93.	1.7	179
74	Tracing Root vs. Residue Carbon into Soils from Conventional and Alternative Cropping Systems. Soil Science Society of America Journal, 2010, 74, 1201-1210.	1.2	174
75	Biochar additions can enhance soil structure and the physical stabilization of C in aggregates. Geoderma, 2017, 303, 110-117.	2.3	168
76	Coordinated approaches to quantify longâ€term ecosystem dynamics in response to global change. Global Change Biology, 2011, 17, 843-854.	4.2	165
77	Soil carbon saturation: Evaluation and corroboration by long-term incubations. Soil Biology and Biochemistry, 2008, 40, 1741-1750.	4.2	161
78	The distribution of nematodes and soil microbial communities across soil aggregate fractions and farm management systems. Soil Biology and Biochemistry, 2011, 43, 905-914.	4.2	160
79	Interactive effects from combining fertilizer and organic residue inputs on nitrogen transformations. Soil Biology and Biochemistry, 2008, 40, 2375-2384.	4.2	156
80	Microbial community composition and carbon cycling within soil microenvironments of conventional, low-input, and organic cropping systems. Soil Biology and Biochemistry, 2011, 43, 20-30.	4.2	156
81	Organic resource quality influences short-term aggregate dynamics and soil organic carbon and nitrogen accumulation. Soil Biology and Biochemistry, 2011, 43, 657-666.	4.2	153
82	Soil carbon saturation: Implications for measurable carbon pool dynamics in long-term incubations. Soil Biology and Biochemistry, 2009, 41, 357-366.	4.2	152
83	Object-Based Image Classification of Summer Crops with Machine Learning Methods. Remote Sensing, 2014, 6, 5019-5041.	1.8	152
84	Impact of no-till and reduced tillage on aggregation and aggregate-associated carbon in Northern European agroecosystems. Soil and Tillage Research, 2015, 150, 107-113.	2.6	149
85	Human-induced erosion has offset one-third of carbon emissions from land cover change. Nature Climate Change, 2017, 7, 345-349.	8.1	149
86	Aggregateâ€Protected Carbon in Noâ€tillage and Conventional Tillage Agroecosystems Using Carbonâ€14 Labeled Plant Residue. Soil Science Society of America Journal, 2002, 66, 1965-1973.	1.2	142
87	Climate-smart sustainable agriculture in low-to-intermediate shade agroforests. Nature Sustainability, 2018, 1, 234-239.	11.5	140
88	Spatial Stratification of Soil Bacterial Populations in Aggregates of Diverse Soils. Microbial Ecology, 2006, 51, 404-411.	1.4	138
89	Impact of tillage and crop rotation on light fraction and intra-aggregate soil organic matter in two Oxisols. Soil and Tillage Research, 2007, 95, 196-206.	2.6	137
90	Temporal controls on dissolved organic matter and lignin biogeochemistry in a pristine tropical river, Democratic Republic of Congo. Journal of Geophysical Research, 2010, 115, .	3.3	137

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91	Land use effects on soil carbon fractions in the southeastern United States. I. Management-intensive versus extensive grazing. Biology and Fertility of Soils, 2003, 38, 386-392.	2.3	133
92	Yield-scaled global warming potential of annual nitrous oxide and methane emissions from continuously flooded rice in response to nitrogen input. Agriculture, Ecosystems and Environment, 2013, 177, 10-20.	2.5	133
93	Legacy of human-induced C erosion and burial on soilâ€"atmosphere C exchange. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19492-19497.	3.3	126
94	Reduced nitrous oxide emissions and increased yields in California tomato cropping systems under drip irrigation and fertigation. Agriculture, Ecosystems and Environment, 2013, 170, 16-27.	2.5	126
95	Soil fauna and soil function in the fabric of the food web. Pedobiologia, 2007, 50, 447-462.	0.5	125
96	Preferential Accumulation of Microbial Carbon in Aggregate Structures of Noâ€Tillage Soils. Soil Science Society of America Journal, 2004, 68, 1249-1255.	1.2	124
97	Searching for unifying principles in soil ecology. Soil Biology and Biochemistry, 2009, 41, 2249-2256.	4.2	124
98	Indications for Soil Carbon Saturation in a Temperate Agroecosystem. Soil Science Society of America Journal, 2008, 72, 1132-1139.	1.2	123
99	Comparing the sustainability of local and global food products in Europe. Journal of Cleaner Production, 2017, 165, 346-359.	4.6	118
100	Links among warming, carbon and microbial dynamics mediated by soil mineral weathering. Nature Geoscience, 2018, 11, 589-593.	5.4	116
101	Aggregation and C and N contents of soil organic matter fractions in a permanent raised-bed planting system in the Highlands of Central Mexico. Plant and Soil, 2008, 305, 237-252.	1.8	115
102	Pore structure changes during decomposition of fresh residue: X-ray tomography analyses. Geoderma, 2006, 134, 82-96.	2.3	114
103	Towards constraining the magnitude of global agricultural sediment and soil organic carbon fluxes. Earth Surface Processes and Landforms, 2012, 37, 642-655.	1.2	114
104	Maximum soil organic carbon storage in Midwest U.S. cropping systems when crops are optimally nitrogen-fertilized. PLoS ONE, 2017, 12, e0172293.	1.1	114
105	Role of Mineral-Nitrogen in Residue Decomposition and Stable Soil Organic Matter Formation. Soil Science Society of America Journal, 2005, 69, 1730-1736.	1.2	112
106	Soil fertility management: Impacts on soil macrofauna, soil aggregation and soil organic matter allocation. Applied Soil Ecology, 2011, 48, 53-62.	2.1	112
107	Title is missing!. Plant and Soil, 2001, 234, 27-36.	1.8	108
108	An initial investigation into the organic matter biogeochemistry of the Congo River. Geochimica Et Cosmochimica Acta, 2012, 84, 614-627.	1.6	108

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109	Soil organic matter distribution and microaggregate characteristics as affected by agricultural management and earthworm activity. European Journal of Soil Science, 2005, 56, 453-467.	1.8	107
110	How reliable is the intramolecular distribution of 15N in N2O to source partition N2O emitted from soil?. Soil Biology and Biochemistry, 2013, 65, 114-127.	4.2	107
111	Quantifying water-stable soil aggregate turnover and its implication for soil organic matter dynamics in a model study. European Journal of Soil Science, 2006, 57, 693-707.	1.8	106
112	Soil nitrous oxide emissions in long-term cover crops-based rotations under subtropical climate. Soil and Tillage Research, 2009, 106, 36-44.	2.6	106
113	Plant versus microbial controls on soil aggregate stability in a seasonally dry ecosystem. Geoderma, 2016, 272, 39-50.	2.3	106
114	Managing N availability and losses by combining fertilizer-N with different quality residues in Kenya. Agriculture, Ecosystems and Environment, 2009, 131, 308-314.	2.5	105
115	Biochar does not mitigate field-scale N2O emissions in a Northern California vineyard: An assessment across two years. Agriculture, Ecosystems and Environment, 2014, 191, 27-38.	2.5	105
116	Carbon cost of collective farming collapse in Russia. Global Change Biology, 2014, 20, 938-947.	4.2	104
117	Pan-Arctic Trends in Terrestrial Dissolved Organic Matter from Optical Measurements. Frontiers in Earth Science, 2016, 4, .	0.8	104
118	Organic and conservation agriculture promote ecosystem multifunctionality. Science Advances, 2021, 7, .	4.7	104
119	Soil organic matter stability in organo-mineral complexes as a function of increasing C loading. Soil Biology and Biochemistry, 2014, 69, 398-405.	4.2	101
120	Microbial contributions to the aggregation of a cultivated grassland soil amended with starch. Soil Biology and Biochemistry, 1999, 31, 407-419.	4.2	100
121	Interactive effects of functionally different earthworm species on aggregation and incorporation and decomposition of newly added residue carbon. Geoderma, 2006, 130, 14-25.	2.3	100
122	Rapid incorporation of carbon from fresh residues into newly formed stable microaggregates within earthworm casts. European Journal of Soil Science, 2004, 55, 393-399.	1.8	99
123	Root exudation (net efflux of amino acids) may increase rhizodeposition under elevated CO2. Global Change Biology, 2006, 12, 561-567.	4.2	98
124	An estimation of annual nitrous oxide emissions and soil quality following the amendment of high temperature walnut shell biochar and compost to a small scale vegetable crop rotation. Science of the Total Environment, 2013, 465, 298-307.	3.9	98
125	Influence of earthworm activity on aggregate-associated carbon and nitrogen dynamics differs with agroecosystem management. Soil Biology and Biochemistry, 2007, 39, 1014-1022.	4.2	97
126	Litter quality impacts short- but not long-term soil carbon dynamics in soil aggregate fractions. , 2011, 21, 695-703.		97

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127	Mobilization of aged and biolabile soil carbon by tropical deforestation. Nature Geoscience, 2019, 12, 541-546.	5.4	97
128	Fertilizer and Residue Quality Effects on Organic Matter Stabilization in Soil Aggregates. Soil Science Society of America Journal, 2009, 73, 961-966.	1.2	96
129	Conservation tillage and organic farming reduce soil erosion. Agronomy for Sustainable Development, 2019, 39, 1.	2.2	96
130	Soil organic carbon and total nitrogen in intensively managed arable soils. Agriculture, Ecosystems and Environment, 2012, 150, 102-110.	2.5	90
131	Interpretation of Soil Carbon and Nitrogen Dynamics in Agricultural and Afforested Soils. Soil Science Society of America Journal, 2003, 67, 1620-1628.	1.2	89
132	The Role of Soil Characteristics on Temperature Sensitivity of Soil Organic Matter. Soil Science Society of America Journal, 2011, 75, 56-68.	1.2	88
133	Organic matter sources, fluxes and greenhouse gas exchange in the Oubangui River (Congo River) Tj ETQq1 1 0.784314 rgBT /Overlo	1.3	88
134	Tillage and seasonal emissions of CO2, N2O and NO across a seed bed and at the field scale in a Mediterranean climate. Agriculture, Ecosystems and Environment, 2009, 129, 378-390.	2.5	87
135	Experimental evidence for the attenuating effect of SOM protection on temperature sensitivity of SOM decomposition. Global Change Biology, 2010, 16, 2789-2798.	4.2	87
136	Evidence for Carbon Saturation in a Highly Structured and Organicâ€Matterâ€Rich Soil. Soil Science Society of America Journal, 2010, 74, 130-138.	1.2	85
137	Biochar alters nitrogen transformations but has minimal effects on nitrous oxide emissions in an organically managed lettuce mesocosm. Biology and Fertility of Soils, 2015, 51, 573-582.	2.3	84
138	Impact of Tillage and Crop Rotation on Aggregateâ€Associated Carbon in Two Oxisols. Soil Science Society of America Journal, 2005, 69, 482-491.	1.2	83
139	Soil nitrous oxide emissions as affected by long-term tillage, cropping systems and nitrogen fertilization in Southern Brazil. Soil and Tillage Research, 2015, 146, 213-222.	2.6	83
140	Acid hydrolysis of easily dispersed and microaggregate-derived silt- and clay-sized fractions to isolate resistant soil organic matter. European Journal of Soil Science, 2006, 57, 456-467.	1.8	82
141	Impact of pine chip biochar on trace greenhouse gas emissions and soil nutrient dynamics in an annual ryegrass system in California. Agriculture, Ecosystems and Environment, 2014, 191, 17-26.	2.5	81
142	Sustainable intensification of agricultural drainage. Nature Sustainability, 2019, 2, 914-921.	11.5	80
143	Variation in root architecture among switchgrass cultivars impacts root decomposition rates. Soil Biology and Biochemistry, 2013, 58, 198-206.	4.2	77
144	A re-evaluation of the enriched labile soil organic matter fraction. European Journal of Soil Science, 2000, 51, 283-293.	1.8	76

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145	Contrasting ecosystem recovery on two soil textures: implications for carbon mitigation and grassland conservation. Ecosphere, 2010, 1, 1-22.	1.0	76
146	Global carbon dioxide efflux from rivers enhanced by high nocturnal emissions. Nature Geoscience, 2021, 14, 289-294.	5.4	76
147	Soil carbon, multiple benefits. Environmental Development, 2015, 13, 33-38.	1.8	75
148	Recycling of sodium polytungstate used in soil organic matter studies. Soil Biology and Biochemistry, 1999, 31, 1193-1196.	4.2	74
149	Phosphorus cycling within soil aggregate fractions of a highly weathered tropical soil: A conceptual model. Soil Biology and Biochemistry, 2018, 116, 91-98.	4.2	74
150	Earthworm populations in relation to soil organic matter dynamics and management in California tomato cropping systems. Applied Soil Ecology, 2009, 41, 206-214.	2.1	73
151	Mitigating N₂O emissions from soil: from patching leaks to transformative action. Soil, 2015, 1, 687-694.	2.2	73
152	Elevated CO 2 increases nitrogen rhizodeposition and microbial immobilization of rootâ€derived nitrogen. New Phytologist, 2007, 173, 778-786.	3.5	71
153	Earthworms, soil fertility and aggregate-associated soil organic matter dynamics in the Quesungual agroforestry system. Geoderma, 2010, 155, 320-328.	2.3	70
154	Making the Most of Our Land: Managing Soil Functions from Local to Continental Scale. Frontiers in Environmental Science, 2015, 3, .	1.5	69
155	Nitrogen fertilization reduces yield declines following no-till adoption. Field Crops Research, 2015, 183, 204-210.	2.3	69
156	Tillage and Field Scale Controls on Greenhouse Gas Emissions. Journal of Environmental Quality, 2006, 35, 714-725.	1.0	68
157	AggModel: A soil organic matter model with measurable pools for use in incubation studies. Ecological Modelling, 2013, 263, 1-9.	1.2	68
158	Optimal Fertilizer Nitrogen Rates and Yield-Scaled Global Warming Potential in Drill Seeded Rice. Journal of Environmental Quality, 2013, 42, 1623-1634.	1.0	68
159	Give soils their due. Science, 2015, 347, 695-695.	6.0	68
160	Shade trees have limited benefits for soil fertility in cocoa agroforests. Agriculture, Ecosystems and Environment, 2017, 243, 83-91.	2.5	68
161	Can soil-less crop production be a sustainable option for soil conservation and future agriculture?. Land Use Policy, 2017, 69, 102-105.	2.5	68
162	What can we learn from N₂O isotope data? â€“ Analytics, processes and modelling. Rapid Communications in Mass Spectrometry, 2020, 34, e8858.	0.7	67

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163	Toward a Better Assessment of Biocharâ€“Nitrous Oxide Mitigation Potential at the Field Scale. Journal of Environmental Quality, 2017, 46, 237-246.	1.0	66
164	Organic and Mineral Input Management to Enhance Crop Productivity in Central Kenya. Agronomy Journal, 2009, 101, 1266-1275.	0.9	65
165	Transitioning from standard to minimum tillage: Trade-offs between soil organic matter stabilization, nitrous oxide emissions, and N availability in irrigated cropping systems. Soil and Tillage Research, 2009, 104, 256-262.	2.6	65
166	Impacts of different N management regimes on nitrifier and denitrifier communities and N cycling in soil microenvironments. Soil Biology and Biochemistry, 2010, 42, 1523-1533.	4.2	64
167	The effects of walnut shell and wood feedstock biochar amendments on greenhouse gas emissions from a fertile soil. Geoderma, 2013, 200-201, 90-98.	2.3	64
168	Comparison of organic versus mineral resource effects on short-term aggregate carbon and nitrogen dynamics in a sandy soil versus a fine textured soil. Agriculture, Ecosystems and Environment, 2011, 140, 361-371.	2.5	63
169	Soil carbon, nitrogen and phosphorus changes under sugarcane expansion in Brazil. Science of the Total Environment, 2015, 515-516, 30-38.	3.9	63
170	Trade-offs between the short- and long-term effects of residue quality on soil C and N dynamics. Plant and Soil, 2011, 338, 159-169.	1.8	61
171	Root carbon inputs under moderately diverse sward and conventional ryegrass-clover pasture: implications for soil carbon sequestration. Plant and Soil, 2015, 392, 289-299.	1.8	61
172	Origins, seasonality, and fluxes of organic matter in the Congo River. Global Biogeochemical Cycles, 2016, 30, 1105-1121.	1.9	59
173	Positive Effects of Crop Diversity on Productivity Driven by Changes in Soil Microbial Composition. Frontiers in Microbiology, 2021, 12, 660749.	1.5	59
174	Agricultural management affects earthworm and termite diversity across humid to semi-arid tropical zones. Agriculture, Ecosystems and Environment, 2011, 140, 148-154.	2.5	56
175	Water repellence and soil aggregate dynamics in a loamy grassland soil as affected by texture. European Journal of Soil Science, 2006, 57, 235-246.	1.8	55
176	Residue Carbon Stabilization in Soil Aggregates of Noâ€Till and Tillage Management of Dryland Cropping Systems. Soil Science Society of America Journal, 2008, 72, 507-513.	1.2	54
177	Effect of climate change on field crop production in Californiaâ€™s Central Valley. Climatic Change, 2011, 109, 335-353.	1.7	54
178	Biochemical changes across a carbon saturation gradient: Lignin, cutin, and suberin decomposition and stabilization in fractionated carbon pools. Soil Biology and Biochemistry, 2012, 47, 179-190.	4.2	54
179	The biogeochemistry of carbon across a gradient of streams and rivers within the Congo Basin. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 687-702.	1.3	54
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