

Rattan Lal

List of Publications by Year in descending order

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737
papers

69,070
citations

554

126
h-index

1048

234
g-index

766
all docs

766
docs citations

766
times ranked

34735
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil Carbon Sequestration Impacts on Global Climate Change and Food Security. <i>Science</i> , 2004, 304, 1623-1627.	6.0	5,406
2	Soil structure and management: a review. <i>Geoderma</i> , 2005, 124, 3-22.	2.3	2,912
3	Soil carbon sequestration to mitigate climate change. <i>Geoderma</i> , 2004, 123, 1-22.	2.3	2,635
4	Soil erosion and the global carbon budget. <i>Environment International</i> , 2003, 29, 437-450.	4.8	1,245
5	The knowns, known unknowns and unknowns of sequestration of soil organic carbon. <i>Agriculture, Ecosystems and Environment</i> , 2013, 164, 80-99.	2.5	1,143
6	Carbon emission from farm operations. <i>Environment International</i> , 2004, 30, 981-990.	4.8	1,053
7	Forest soils and carbon sequestration. <i>Forest Ecology and Management</i> , 2005, 220, 242-258.	1.4	1,018
8	Carbon sequestration. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 815-830.	1.8	977
9	Soil degradation by erosion. <i>Land Degradation and Development</i> , 2001, 12, 519-539.	1.8	937
10	Restoring Soil Quality to Mitigate Soil Degradation. <i>Sustainability</i> , 2015, 7, 5875-5895.	1.6	896
11	Potentials of engineered nanoparticles as fertilizers for increasing agronomic productions. <i>Science of the Total Environment</i> , 2015, 514, 131-139.	3.9	870
12	World crop residues production and implications of its use as a biofuel. <i>Environment International</i> , 2005, 31, 575-584.	4.8	795
13	Enhancing crop yields in the developing countries through restoration of the soil organic carbon pool in agricultural lands. <i>Land Degradation and Development</i> , 2006, 17, 197-209.	1.8	648
14	Carbon Sequestration in Dryland Ecosystems. <i>Environmental Management</i> , 2004, 33, 528-44.	1.2	464
15	Mechanisms of Carbon Sequestration in Soil Aggregates. <i>Critical Reviews in Plant Sciences</i> , 2004, 23, 481-504.	2.7	459
16	Crop Residue Removal Impacts on Soil Productivity and Environmental Quality. <i>Critical Reviews in Plant Sciences</i> , 2009, 28, 139-163.	2.7	449
17	Soil carbon dynamics in cropland and rangeland. <i>Environmental Pollution</i> , 2002, 116, 353-362.	3.7	444
18	The Depth Distribution of Soil Organic Carbon in Relation to Land Use and Management and the Potential of Carbon Sequestration in Subsoil Horizons. <i>Advances in Agronomy</i> , 2005, , 35-66.	2.4	436

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19	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
20	Soil health and carbon management. Food and Energy Security, 2016, 5, 212-222.	2.0	428
21	No-tillage and Soil Profile Carbon Sequestration: An On-farm Assessment. Soil Science Society of America Journal, 2008, 72, 693-701.	1.2	426
22	Digging deeper: A holistic perspective of factors affecting soil organic carbon sequestration in agroecosystems. Global Change Biology, 2018, 24, 3285-3301.	4.2	423
23	Determining soil quality indicators by factor analysis. Soil and Tillage Research, 2006, 87, 194-204.	2.6	411
24	Global Potential of Soil Carbon Sequestration to Mitigate the Greenhouse Effect. Critical Reviews in Plant Sciences, 2003, 22, 151-184.	2.7	399
25	Residue management, conservation tillage and soil restoration for mitigating greenhouse effect by CO ₂ -enrichment. Soil and Tillage Research, 1997, 43, 81-107.	2.6	398
26	Mulching effects on selected soil physical properties. Soil and Tillage Research, 2008, 98, 106-111.	2.6	390
27	Managing Soils and Ecosystems for Mitigating Anthropogenic Carbon Emissions and Advancing Global Food Security. BioScience, 2010, 60, 708-721.	2.2	384
28	Challenges and opportunities in soil organic matter research. European Journal of Soil Science, 2009, 60, 158-169.	1.8	383
29	SOIL CARBON SEQUESTRATION TO MITIGATE CLIMATE CHANGE AND ADVANCE FOOD SECURITY. Soil Science, 2007, 172, 943-956.	0.9	382
30	Soil Erosion Impact on Agronomic Productivity and Environment Quality. Critical Reviews in Plant Sciences, 1998, 17, 319-464.	2.7	372
31	Bioenergy Crops and Carbon Sequestration. Critical Reviews in Plant Sciences, 2005, 24, 1-21.	2.7	368
32	Biochar Impacts on Soil Physical Properties and Greenhouse Gas Emissions. Agronomy, 2013, 3, 313-339.	1.3	363
33	Sequestering carbon and increasing productivity by conservation agriculture. Journal of Soils and Water Conservation, 2015, 70, 55A-62A.	0.8	343
34	Sequestering carbon in soils of agro-ecosystems. Food Policy, 2011, 36, S33-S39.	2.8	342
35	Strengthening the soil organic carbon pool by increasing contributions from recalcitrant aliphatic bio(macro)molecules. Geoderma, 2007, 142, 1-10.	2.3	333
36	Synthetic apatite nanoparticles as a phosphorus fertilizer for soybean (Glycine max). Scientific Reports, 2014, 4, 5686.	1.6	327

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37	Sequestration of atmospheric CO ₂ in global carbon pools. <i>Energy and Environmental Science</i> , 2008, 1, 86.	15.6	317
38	Towards a global-scale soil climate mitigation strategy. <i>Nature Communications</i> , 2020, 11, 5427.	5.8	302
39	Soil organic carbon sequestration in agroforestry systems. A review. <i>Agronomy for Sustainable Development</i> , 2014, 34, 443-454.	2.2	282
40	ECOLOGY: Managing Soil Carbon. <i>Science</i> , 2004, 304, 393-393.	6.0	279
41	Carbon sequestration in soil. <i>Current Opinion in Environmental Sustainability</i> , 2015, 15, 79-86.	3.1	277
42	Soil degradation as a reason for inadequate human nutrition. <i>Food Security</i> , 2009, 1, 45-57.	2.4	272
43	Management to mitigate and adapt to climate change. <i>Journal of Soils and Water Conservation</i> , 2011, 66, 276-285.	0.8	271
44	Home gardening and urban agriculture for advancing food and nutritional security in response to the COVID-19 pandemic. <i>Food Security</i> , 2020, 12, 871-876.	2.4	267
45	Crop Management for Soil Carbon Sequestration. <i>Critical Reviews in Plant Sciences</i> , 2003, 22, 471-502.	2.7	266
46	Soil organic carbon and nitrogen in a Mollisol in central Ohio as affected by tillage and land use. <i>Soil and Tillage Research</i> , 2005, 80, 201-213.	2.6	264
47	Organic Matter Dynamics and Carbon Sequestration Rates for a Tillage Chronosequence in a Brazilian Oxisol. <i>Soil Science Society of America Journal</i> , 2001, 65, 1486-1499.	1.2	263
48	World cropland soils as a source or sink for atmospheric carbon. <i>Advances in Agronomy</i> , 2001, 71, 145-191.	2.4	263
49	Potential of Desertification Control to Sequester Carbon and Mitigate the Greenhouse Effect. <i>Climatic Change</i> , 2001, 51, 35-72.	1.7	261
50	Tillage effects on soil degradation, soil resilience, soil quality, and sustainability. <i>Soil and Tillage Research</i> , 1993, 27, 1-8.	2.6	260
51	Agricultural activities and the global carbon cycle. <i>Nutrient Cycling in Agroecosystems</i> , 2004, 70, 103-116.	1.1	259
52	The potential of world cropland soils to sequester C and mitigate the greenhouse effect. <i>Environmental Science and Policy</i> , 1999, 2, 177-185.	2.4	258
53	Biogeochemical C and N cycles in urban soils. <i>Environment International</i> , 2009, 35, 1-8.	4.8	256
54	Effects of 15 years of manure and inorganic fertilizers on soil organic carbon fractions in a wheat-maize system in the North China Plain. <i>Nutrient Cycling in Agroecosystems</i> , 2012, 92, 21-33.	1.1	252

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55	Sustainability of sugarcane production in Brazil. A review. <i>Agronomy for Sustainable Development</i> , 2018, 38, 1.	2.2	251
56	Long-term tillage effects on soil carbon storage and carbon dioxide emissions in continuous corn cropping system from an alfisol in Ohio. <i>Soil and Tillage Research</i> , 2009, 104, 39-47.	2.6	246
57	Effects of biochar and other amendments on the physical properties and greenhouse gas emissions of an artificially degraded soil. <i>Science of the Total Environment</i> , 2014, 487, 26-36.	3.9	237
58	Degradation and resilience of soils. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1997, 352, 997-1010.	1.8	234
59	Soils and sustainable agriculture. A review. <i>Agronomy for Sustainable Development</i> , 2008, 28, 57-64.	2.2	230
60	Crop residue and tillage effects on carbon sequestration in a Luvisol in central Ohio. <i>Soil and Tillage Research</i> , 1999, 52, 73-81.	2.6	223
61	Soil Organic Carbon Pools and Sequestration Rates in Reclaimed Minesoils in Ohio. <i>Journal of Environmental Quality</i> , 2001, 30, 2098-2104.	1.0	221
62	Soil structure and organic carbon relationships following 10 years of wheat straw management in no-till. <i>Soil and Tillage Research</i> , 2007, 95, 240-254.	2.6	221
63	Effects of Stabilized Nanoparticles of Copper, Zinc, Manganese, and Iron Oxides in Low Concentrations on Lettuce (<i>Lactuca sativa</i>) Seed Germination: Nanotoxicants or Nanonutrients?. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	220
64	No-tillage Effects on Soil Properties under Different Crops in Western Nigeria. <i>Soil Science Society of America Journal</i> , 1976, 40, 762-768.	1.2	219
65	Soil Security: Solving the Global Soil Crisis. <i>Global Policy</i> , 2013, 4, 434-441.	1.0	219
66	Soil erosion and carbon dynamics. <i>Soil and Tillage Research</i> , 2005, 81, 137-142.	2.6	218
67	A geographically weighted regression kriging approach for mapping soil organic carbon stock. <i>Geoderma</i> , 2012, 189-190, 627-634.	2.3	217
68	Soil and crop response to harvesting corn residues for biofuel production. <i>Geoderma</i> , 2007, 141, 355-362.	2.3	216
69	Nitrous oxide and methane emissions from long-term tillage under a continuous corn cropping system in Ohio. <i>Soil and Tillage Research</i> , 2009, 104, 247-255.	2.6	215
70	Beyond COP 21: Potential and challenges of the "4 per Thousand" initiative. <i>Journal of Soils and Water Conservation</i> , 2016, 71, 20A-25A.	0.8	207
71	Carbon Management in Agricultural Soils. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2007, 12, 303-322.	1.0	205
72	Twenty two years of tillage and mulching impacts on soil physical characteristics and carbon sequestration in Central Ohio. <i>Soil and Tillage Research</i> , 2013, 126, 151-158.	2.6	202

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73	Long-Term Tillage and Rotation Effects on Properties of a Central Ohio Soil. Soil Science Society of America Journal, 1994, 58, 517-522.	1.2	198
74	Changes in physical and chemical properties of soil after surface mining and reclamation. Geoderma, 2011, 161, 168-176.	2.3	197
75	Soil Erosion Impact on Agronomic Productivity and Environment Quality. Critical Reviews in Plant Sciences, 1998, 17, 319-464.	2.7	196
76	Comparison of Soil Quality Index Using Three Methods. PLoS ONE, 2014, 9, e105981.	1.1	189
77	Predicting the Spatial Variation of the Soil Organic Carbon Pool at a Regional Scale. Soil Science Society of America Journal, 2010, 74, 906-914.	1.2	184
78	Beyond Copenhagen: mitigating climate change and achieving food security through soil carbon sequestration. Food Security, 2010, 2, 169-177.	2.4	184
79	Long-term impacts of topsoil depth and amendments on soil physical and hydrological properties of an Alfisol in central Ohio, USA. Geoderma, 2020, 363, 114164.	2.3	183
80	Soils and food sufficiency. A review. Agronomy for Sustainable Development, 2009, 29, 113-133.	2.2	182
81	The carbon sequestration potential of terrestrial ecosystems. Journal of Soils and Water Conservation, 2018, 73, 145A-152A.	0.8	180
82	Twenty-Eight Years of Tillage Effects on Two Soils in Ohio. Soil Science Society of America Journal, 1993, 57, 506-512.	1.2	179
83	Carbon Footprint and Sustainability of Agricultural Production Systems in Punjab, India, and Ohio, USA. Journal of Crop Improvement, 2009, 23, 332-350.	0.9	179
84	Achieving Zero Net Land Degradation: Challenges and opportunities. Journal of Arid Environments, 2015, 112, 44-51.	1.2	179
85	Crop residues as soil amendments and feedstock for bioethanol production. Waste Management, 2008, 28, 747-758.	3.7	178
86	The biochar dilemma. Soil Research, 2014, 52, 217.	0.6	178
87	ACHIEVING SOIL CARBON SEQUESTRATION IN THE UNITED STATES: A CHALLENGE TO THE POLICY MAKERS. Soil Science, 2003, 168, 827-845.	0.9	173
88	Global Soil Nutrient Depletion and Yield Reduction. Agroecology and Sustainable Food Systems, 2005, 26, 123-146.	0.9	173
89	Stratification ratio of soil organic matter pools as an indicator of carbon sequestration in a tillage chronosequence on a Brazilian Oxisol. Soil and Tillage Research, 2009, 103, 46-56.	2.6	172
90	Low-carbon agriculture in South America to mitigate global climate change and advance food security. Environment International, 2017, 98, 102-112.	4.8	172

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91	Ecosystem carbon budgeting and soil carbon sequestration in reclaimed mine soil. <i>Environment International</i> , 2006, 32, 781-796.	4.8	169
92	Biochar application to soil for climate change mitigation by soil organic carbon sequestration. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 651-670.	1.1	169
93	Soil organic carbon and total nitrogen stocks under different land uses in a semi-arid watershed in Tigray, Northern Ethiopia. <i>Agriculture, Ecosystems and Environment</i> , 2014, 188, 256-263.	2.5	169
94	Erosionâ€Crop Productivity Relationships for Soils of Africa. <i>Soil Science Society of America Journal</i> , 1995, 59, 661-667.	1.2	168
95	Potential benefits of climate change for crop productivity in China. <i>Agricultural and Forest Meteorology</i> , 2015, 208, 76-84.	1.9	168
96	Long-term impact of topsoil depth and amendments on carbon and nitrogen budgets in the surface layer of an Alfisol in Central Ohio. <i>Catena</i> , 2020, 194, 104752.	2.2	168
97	SOIL MANAGEMENT IN THE DEVELOPING COUNTRIES. <i>Soil Science</i> , 2000, 165, 57-72.	0.9	168
98	Transport of labile carbon in runoff as affected by land use and rainfall characteristics. <i>Soil and Tillage Research</i> , 2004, 77, 111-123.	2.6	165
99	Corn Stover Removal for Expanded Uses Reduces Soil Fertility and Structural Stability. <i>Soil Science Society of America Journal</i> , 2009, 73, 418-426.	1.2	164
100	Energy budget and carbon footprint in a no-till and mulch based riceâ€mustard cropping system. <i>Journal of Cleaner Production</i> , 2018, 191, 144-157.	4.6	164
101	Continuous Application of Noâ€Tillage to Ohio Soils. <i>Agronomy Journal</i> , 1991, 83, 65-73.	0.9	163
102	LONGâ€TERM MANURING AND FERTILIZER EFFECTS ON DEPLETION OF SOIL ORGANIC CARBON STOCKS UNDER PEARL MILLETâ€CLUSTER BEANâ€CASTOR ROTATION IN WESTERN INDIA. <i>Land Degradation and Development</i> , 2014, 25, 173-183.	1.8	163
103	Organic Carbon and Nitrogen Associated with Soil Aggregates and Particle Sizes Under Different Land Uses in Tigray, Northern Ethiopia. <i>Land Degradation and Development</i> , 2015, 26, 690-700.	1.8	161
104	Soil carbon sequestration in sub-Saharan Africa: a review. <i>Land Degradation and Development</i> , 2005, 16, 53-71.	1.8	160
105	Relationships between surface soil organic carbon pool and site variables. <i>Geoderma</i> , 2004, 121, 187-195.	2.3	159
106	Changes in soil organic carbon and nitrogen as affected by tillage and residue management under wheatâ€maize cropping system in the North China Plain. <i>Soil and Tillage Research</i> , 2014, 144, 110-118.	2.6	159
107	Soil Erosion: A Carbon Sink or Source?. <i>Science</i> , 2008, 319, 1040-1042.	6.0	157
108	Changes in soil carbon and nutrient pools along a chronosequence of poplar plantations in the Columbia Plateau, Oregon, USA. <i>Agriculture, Ecosystems and Environment</i> , 2007, 122, 325-339.	2.5	156

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109	Edaphic Controls on Soil Organic Carbon Retention in the Brazilian Cerrado: Texture and Mineralogy. Soil Science Society of America Journal, 2007, 71, 1204-1214.	1.2	154
110	Long-term effects of tillage and straw management on soil organic carbon, crop yield, and yield stability in a wheat-maize system. Field Crops Research, 2019, 233, 33-40.	2.3	154
111	Soil Carbon Sequestration in India. Climatic Change, 2004, 65, 277-296.	1.7	153
112	Changes in soil organic carbon stocks under agriculture in Brazil. Soil and Tillage Research, 2005, 84, 28-40.	2.6	152
113	Evaluation of Different Soil Carbon Determination Methods. Critical Reviews in Plant Sciences, 2009, 28, 164-178.	2.7	152
114	An increase in topsoil SOC stock of China's croplands between 1985 and 2006 revealed by soil monitoring. Agriculture, Ecosystems and Environment, 2010, 136, 133-138.	2.5	152
115	Societal value of soil carbon. Journal of Soils and Water Conservation, 2014, 69, 186A-192A.	0.8	149
116	Soil quality impacts of residue removal for bioethanol production. Soil and Tillage Research, 2009, 102, 233-241.	2.6	148
117	Predicting Soil Organic Carbon Stock Using Profile Depth Distribution Functions and Ordinary Kriging. Soil Science Society of America Journal, 2009, 73, 614-621.	1.2	146
118	Soil aggregation and greenhouse gas flux after 15 years of wheat straw and fertilizer management in a no-till system. Soil and Tillage Research, 2013, 126, 78-89.	2.6	142
119	Carbon Depletion by Plowing and its Restoration by No-till Cropping Systems in Oxisols of Subtropical and Tropical Agro-ecoregions in Brazil. Land Degradation and Development, 2015, 26, 531-543.	1.8	140
120	Distribution of organic carbon in physical fractions of soils as affected by agricultural management. Biology and Fertility of Soils, 2010, 46, 543-554.	2.3	139
121	Sequestering carbon in soils of arid ecosystems. Land Degradation and Development, 2009, 20, 441-454.	1.8	138
122	Modeling soil organic matter dynamics as affected by soil water erosion. Environment International, 2004, 30, 547-556.	4.8	136
123	Nitrogen Management Affects Carbon Sequestration in North American Cropland Soils. Critical Reviews in Plant Sciences, 2007, 26, 45-64.	2.7	136
124	Carbon sequestration in dryland ecosystems of West Asia and North Africa. Land Degradation and Development, 2002, 13, 45-59.	1.8	134
125	Carbon Sequestration in Reclaimed Minesoils. Critical Reviews in Plant Sciences, 2005, 24, 151-165.	2.7	134
126	Agroforestry and biochar to offset climate change: a review. Agronomy for Sustainable Development, 2013, 33, 81-96.	2.2	134

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127	Soils and sustainable development goals of the United Nations: An International Union of Soil Sciences perspective. <i>Geoderma Regional</i> , 2021, 25, e00398.	0.9	133
128	Enhancing Eco-efficiency in Agroecosystems through Soil Carbon Sequestration. <i>Crop Science</i> , 2010, 50, S-120.	0.8	132
129	Tillage effects on soil organic carbon storage and dynamics in Corn Belt of Ohio USA. <i>Soil and Tillage Research</i> , 2010, 107, 88-96.	2.6	129
130	Long-Term No-Till Impacts on Organic Carbon and Properties of Two Contrasting Soils and Corn Yields in Ohio. <i>Soil Science Society of America Journal</i> , 2012, 76, 1798-1809.	1.2	129
131	Food security in a changing climate. <i>Ecohydrology and Hydrobiology</i> , 2013, 13, 8-21.	1.0	127
132	Manuring and rotation effects on soil organic carbon concentration for different aggregate size fractions on two soils in northeastern Ohio, USA. <i>Soil and Tillage Research</i> , 2005, 81, 239-252.	2.6	124
133	Recent spatiotemporal temperature and rainfall variability and trends over the Upper Blue Nile River Basin, Ethiopia. <i>International Journal of Climatology</i> , 2014, 34, 2278-2292.	1.5	124
134	Accelerated Soil erosion as a source of atmospheric CO ₂ . <i>Soil and Tillage Research</i> , 2019, 188, 35-40.	2.6	124
135	Soil Properties and Carbon Sequestration of Afforested Pastures in Reclaimed Minesoils of Ohio. <i>Soil Science Society of America Journal</i> , 2006, 70, 1797-1806.	1.2	123
136	Soil organic matter and CO ₂ emission as affected by water erosion on field runoff plots. <i>Geoderma</i> , 2008, 143, 216-222.	2.3	122
137	Soil carbon stocks under present and future climate with specific reference to European ecoregions. <i>Nutrient Cycling in Agroecosystems</i> , 2008, 81, 113-127.	1.1	118
138	Experimental Consideration, Treatments, and Methods in Determining Soil Organic Carbon Sequestration Rates. <i>Soil Science Society of America Journal</i> , 2014, 78, 348-360.	1.2	118
139	Soil Science and the Carbon Civilization. <i>Soil Science Society of America Journal</i> , 2007, 71, 1425-1437.	1.2	117
140	Soil Structure and Sustainability. <i>Agroecology and Sustainable Food Systems</i> , 1991, 1, 67-92.	0.9	116
141	Potential of mine land reclamation for soil organic carbon sequestration in Ohio. <i>Land Degradation and Development</i> , 2000, 11, 289-297.	1.8	116
142	Carbon stocks in Ethiopian soils in relation to land use and soil management. <i>Land Degradation and Development</i> , 2008, 19, 351-367.	1.8	116
143	Soil carbon management and climate change. <i>Carbon Management</i> , 2013, 4, 439-462.	1.2	116
144	Potential Soil Carbon Sequestration and CO ₂ Offset by Dedicated Energy Crops in the USA. <i>Critical Reviews in Plant Sciences</i> , 2006, 25, 441-472.	2.7	115

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145	Managing woody bamboos for carbon farming and carbon trading. <i>Global Ecology and Conservation</i> , 2015, 3, 654-663.	1.0	115
146	Soil conservation and ecosystem services. <i>International Soil and Water Conservation Research</i> , 2014, 2, 36-47.	3.0	114
147	SOIL EROSION AND CARBON DYNAMICS UNDER SIMULATED RAINFALL. <i>Soil Science</i> , 2004, 169, 590-599.	0.9	113
148	Regional Study of No-till Effects on Carbon Sequestration in the Midwestern United States. <i>Soil Science Society of America Journal</i> , 2009, 73, 207-216.	1.2	113
149	Methane and nitrous oxide emissions under no-till farming in China: a meta-analysis. <i>Global Change Biology</i> , 2016, 22, 1372-1384.	4.2	113
150	Soil organic carbon stock as an indicator for monitoring land and soil degradation in relation to 'United Nations' Sustainable Development Goals. <i>Land Degradation and Development</i> , 2019, 30, 824-838.	1.8	113
151	Soil degradation: I. Basic processes. <i>Land Degradation and Development</i> , 1989, 1, 51-69.	1.8	112
152	Nitrogen fertilization and cropping system impacts on soil properties and their relationship to crop yield in the central Corn Belt, USA. <i>Soil and Tillage Research</i> , 2008, 98, 120-129.	2.6	112
153	Effects of soil erosion on crop productivity. <i>Critical Reviews in Plant Sciences</i> , 1987, 5, 303-367.	2.7	110
154	Soil organic matter and water retention. <i>Agronomy Journal</i> , 2020, 112, 3265-3277.	0.9	108
155	A mass balance approach to assess carbon dioxide evolution during erosional events. <i>Land Degradation and Development</i> , 2001, 12, 329-339.	1.8	106
156	Towards a standard technique for soil quality assessment. <i>Geoderma</i> , 2016, 265, 96-102.	2.3	106
157	The role of ruminants in reducing agriculture's carbon footprint in North America. <i>Journal of Soils and Water Conservation</i> , 2016, 71, 156-164.	0.8	106
158	Towards sustainable land management in the drylands: Scientific connections in monitoring and assessing dryland degradation, climate change and biodiversity. <i>Land Degradation and Development</i> , 2011, 22, 248-260.	1.8	105
159	Crop Response in Salt-Affected Soils. <i>Agroecology and Sustainable Food Systems</i> , 2005, 27, 5-50.	0.9	103
160	Anthropogenic Influences on World Soils and Implications to Global Food Security. <i>Advances in Agronomy</i> , 2007, , 69-93.	2.4	103
161	Carbon and nitrogen pools in reclaimed land under forest and pasture ecosystems in Ohio, USA. <i>Geoderma</i> , 2010, 157, 196-205.	2.3	103
162	Tillage effects on gaseous emissions from an intensively farmed organic soil in North Central Ohio. <i>Soil and Tillage Research</i> , 2008, 98, 45-55.	2.6	102

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163	A standardized soil quality index for diverse field conditions. <i>Science of the Total Environment</i> , 2016, 541, 424-434.	3.9	101
164	Carbon budget study using CO ₂ flux measurements from a no till system in central Ohio. <i>Soil and Tillage Research</i> , 2000, 54, 21-30.	2.6	100
165	Carbon budget and seasonal carbon dioxide emission from a central Ohio Luvisol as influenced by wheat residue amendment. <i>Soil and Tillage Research</i> , 2002, 67, 147-157.	2.6	100
166	Soil carbon sequestration potential of US croplands and grasslands: Implementing the 4 per Thousand Initiative. <i>Journal of Soils and Water Conservation</i> , 2016, 71, 68A-74A.	0.8	100
167	Agroforestry systems and soil surface management of a tropical alfisol. <i>Agroforestry Systems</i> , 1989, 8, 97-111.	0.9	99
168	The Role of Residues Management in Sustainable Agricultural Systems. <i>Agroecology and Sustainable Food Systems</i> , 1995, 5, 51-78.	0.9	99
169	Long-term tillage systems impacts on soil C dynamics, soil resilience and agronomic productivity of a Brazilian Oxisol. <i>Soil and Tillage Research</i> , 2014, 136, 38-50.	2.6	99
170	Managing the Soils of Sub-Saharan Africa. <i>Science</i> , 1987, 236, 1069-1076.	6.0	97
171	Aggregate C depletion by plowing and its restoration by diverse biomass-C inputs under no-till in sub-tropical and tropical regions of Brazil. <i>Soil and Tillage Research</i> , 2013, 126, 203-218.	2.6	96
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