

Rattan Lal

List of Publications by Citations

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739
papers

51,390
citations

112
h-index

205
g-index

766
ext. papers

59,029
ext. citations

4.8
avg, IF

8.84
L-index

#	Paper	IF	Citations
739	Soil carbon sequestration impacts on global climate change and food security. <i>Science</i> , 2004 , 304, 1623-733.3	33.3	4199
738	Soil structure and management: a review. <i>Geoderma</i> , 2005 , 124, 3-22	6.7	2217
737	Soil carbon sequestration to mitigate climate change. <i>Geoderma</i> , 2004 , 123, 1-22	6.7	2044
736	Soil erosion and the global carbon budget. <i>Environment International</i> , 2003 , 29, 437-50	12.9	992
735	The knowns, known unknowns and unknowns of sequestration of soil organic carbon. <i>Agriculture, Ecosystems and Environment</i> , 2013 , 164, 80-99	5.7	834
734	Carbon emission from farm operations. <i>Environment International</i> , 2004 , 30, 981-90	12.9	822
733	Forest soils and carbon sequestration. <i>Forest Ecology and Management</i> , 2005 , 220, 242-258	3.9	800
732	Carbon sequestration. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008 , 363, 815-30	5.8	762
731	Soil degradation by erosion. <i>Land Degradation and Development</i> , 2001 , 12, 519-539	4.4	720
730	World crop residues production and implications of its use as a biofuel. <i>Environment International</i> , 2005 , 31, 575-84	12.9	660
729	Potentials of engineered nanoparticles as fertilizers for increasing agronomic productions. <i>Science of the Total Environment</i> , 2015 , 514, 131-9	10.2	609
728	Restoring Soil Quality to Mitigate Soil Degradation. <i>Sustainability</i> , 2015 , 7, 5875-5895	3.6	574
727	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	4.4	530
726	Carbon sequestration in dryland ecosystems. <i>Environmental Management</i> , 2004 , 33, 528-44	3.1	376
725	Soil carbon dynamics in cropland and rangeland. <i>Environmental Pollution</i> , 2002 , 116, 353-62	9.3	368
724	Crop Residue Removal Impacts on Soil Productivity and Environmental Quality. <i>Critical Reviews in Plant Sciences</i> , 2009 , 28, 139-163	5.6	354
723	Mechanisms of Carbon Sequestration in Soil Aggregates. <i>Critical Reviews in Plant Sciences</i> , 2004 , 23, 481-504	5.6	354

722	No-Tillage and Soil-Profile Carbon Sequestration: An On-Farm Assessment. <i>Soil Science Society of America Journal</i> , 2008 , 72, 693-701	2.5	350
721	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	7.7	326
720	Global Potential of Soil Carbon Sequestration to Mitigate the Greenhouse Effect. <i>Critical Reviews in Plant Sciences</i> , 2003 , 22, 151-184	5.6	318
719	Residue management, conservation tillage and soil restoration for mitigating greenhouse effect by CO ₂ -enrichment. <i>Soil and Tillage Research</i> , 1997 , 43, 81-107	6.5	312
718	Determining soil quality indicators by factor analysis. <i>Soil and Tillage Research</i> , 2006 , 87, 194-204	6.5	307
717	Mulching effects on selected soil physical properties. <i>Soil and Tillage Research</i> , 2008 , 98, 106-111	6.5	299
716	Challenges and opportunities in soil organic matter research. <i>European Journal of Soil Science</i> , 2009 , 60, 158-169	3.4	294
715	Permanganate Oxidizable Carbon Reflects a Processed Soil Fraction that is Sensitive to Management. <i>Soil Science Society of America Journal</i> , 2012 , 76, 494-504	2.5	291
714	Bioenergy Crops and Carbon Sequestration. <i>Critical Reviews in Plant Sciences</i> , 2005 , 24, 1-21	5.6	287
713	Soil Erosion Impact on Agronomic Productivity and Environment Quality. <i>Critical Reviews in Plant Sciences</i> , 1998 , 17, 319-464	5.6	283
712	Strengthening the soil organic carbon pool by increasing contributions from recalcitrant aliphatic bio(macro)molecules. <i>Geoderma</i> , 2007 , 142, 1-10	6.7	282
711	SOIL CARBON SEQUESTRATION TO MITIGATE CLIMATE CHANGE AND ADVANCE FOOD SECURITY. <i>Soil Science</i> , 2007 , 172, 943-956	0.9	279
710	Biochar Impacts on Soil Physical Properties and Greenhouse Gas Emissions. <i>Agronomy</i> , 2013 , 3, 313-339	3.6	276
709	Managing Soils and Ecosystems for Mitigating Anthropogenic Carbon Emissions and Advancing Global Food Security. <i>BioScience</i> , 2010 , 60, 708-721	5.7	275
708	Sequestering carbon in soils of agro-ecosystems. <i>Food Policy</i> , 2011 , 36, S33-S39	5	260
707	Sequestering carbon and increasing productivity by conservation agriculture. <i>Journal of Soils and Water Conservation</i> , 2015 , 70, 55A-62A	2.2	258
706	Sequestration of atmospheric CO ₂ in global carbon pools. <i>Energy and Environmental Science</i> , 2008 , 1, 86	35.4	256
705	Soil health and carbon management. <i>Food and Energy Security</i> , 2016 , 5, 212-222	4.1	238

704	Ecology. Managing soil carbon. <i>Science</i> , 2004 , 304, 393	33.3	229
703	Potential of Desertification Control to Sequester Carbon and Mitigate the Greenhouse Effect. <i>Climatic Change</i> , 2001 , 51, 35-72	4.5	226
702	Management to mitigate and adapt to climate change. <i>Journal of Soils and Water Conservation</i> , 2011 , 66, 276-285	2.2	218
701	Crop Management for Soil Carbon Sequestration. <i>Critical Reviews in Plant Sciences</i> , 2003 , 22, 471-502	5.6	218
700	Synthetic apatite nanoparticles as a phosphorus fertilizer for soybean (Glycine max). <i>Scientific Reports</i> , 2014 , 4, 5686	4.9	217
699	Digging deeper: A holistic perspective of factors affecting soil organic carbon sequestration in agroecosystems. <i>Global Change Biology</i> , 2018 , 24, 3285-3301	11.4	214
698	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	6.5	207
697	Tillage effects on soil degradation, soil resilience, soil quality, and sustainability. <i>Soil and Tillage Research</i> , 1993 , 27, 1-8	6.5	207
696	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	2.5	205
695	Biogeochemical C and N cycles in urban soils. <i>Environment International</i> , 2009 , 35, 1-8	12.9	200
694	Agricultural activities and the global carbon cycle. <i>Nutrient Cycling in Agroecosystems</i> , 2004 , 70, 103-116	3.3	198
693	Soil organic carbon sequestration in agroforestry systems. A review. <i>Agronomy for Sustainable Development</i> , 2014 , 34, 443-454	6.8	197
692	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	6.5	197
691	The potential of world cropland soils to sequester C and mitigate the greenhouse effect. <i>Environmental Science and Policy</i> , 1999 , 2, 177-185	6.2	197
690	Soil degradation as a reason for inadequate human nutrition. <i>Food Security</i> , 2009 , 1, 45-57	6.7	194
689	World cropland soils as a source or sink for atmospheric carbon. <i>Advances in Agronomy</i> , 2001 , 71, 145-197	7.7	190
688	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	6.5	188
687	Soil erosion and carbon dynamics. <i>Soil and Tillage Research</i> , 2005 , 81, 137-142	6.5	186

686	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	10.2	184
685	Soil and crop response to harvesting corn residues for biofuel production. <i>Geoderma</i> , 2007 , 141, 355-362	6.7	184
684	Carbon sequestration in soil. <i>Current Opinion in Environmental Sustainability</i> , 2015 , 15, 79-86	7.2	179
683	Crop residue and tillage effects on carbon sequestration in a Luvisol in central Ohio. <i>Soil and Tillage Research</i> , 1999 , 52, 73-81	6.5	178
682	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	3.3	176
681	Soil organic carbon pools and sequestration rates in reclaimed minesoils in Ohio. <i>Journal of Environmental Quality</i> , 2001 , 30, 2098-104	3.4	175
680	Soil Erosion Impact on Agronomic Productivity and Environment Quality		175
679	Soil Security: Solving the Global Soil Crisis. <i>Global Policy</i> , 2013 , 4, 434-441	1.8	173
678	No-tillage Effects on Soil Properties under Different Crops in Western Nigeria. <i>Soil Science Society of America Journal</i> , 1976 , 40, 762-768	2.5	173
677	Degradation and resilience of soils. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1997 , 352, 997-1010	5.8	170
676	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	6.5	170
675	Soils and sustainable agriculture. A review. <i>Agronomy for Sustainable Development</i> , 2008 , 28, 57-64	6.8	167
674	A geographically weighted regression kriging approach for mapping soil organic carbon stock. <i>Geoderma</i> , 2012 , 189-190, 627-634	6.7	161
673	Soils and food sufficiency. A review. <i>Agronomy for Sustainable Development</i> , 2009 , 29, 113-133	6.8	159
672	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	2.6	158
671	Long-Term Tillage and Rotation Effects on Properties of a Central Ohio Soil. <i>Soil Science Society of America Journal</i> , 1994 , 58, 517-522	2.5	158
670	Beyond Copenhagen: mitigating climate change and achieving food security through soil carbon sequestration. <i>Food Security</i> , 2010 , 2, 169-177	6.7	152
669	Sustainability of sugarcane production in Brazil. A review. <i>Agronomy for Sustainable Development</i> , 2018 , 38, 1	6.8	150

668	Beyond COP 21: Potential and challenges of the "4 per Thousand" initiative. <i>Journal of Soils and Water Conservation</i> , 2016 , 71, 20A-25A	2.2	150
667	Changes in physical and chemical properties of soil after surface mining and reclamation. <i>Geoderma</i> , 2011 , 161, 168-176	6.7	150
666	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	6.5	149
665	Twenty-Eight Years of Tillage Effects on Two Soils in Ohio. <i>Soil Science Society of America Journal</i> , 1993 , 57, 506-512	2.5	147
664	Carbon Management in Agricultural Soils. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2007 , 12, 303-322	3.9	146
663	Predicting the Spatial Variation of the Soil Organic Carbon Pool at a Regional Scale. <i>Soil Science Society of America Journal</i> , 2010 , 74, 906-914	2.5	145
662	Crop residues as soil amendments and feedstock for bioethanol production. <i>Waste Management</i> , 2008 , 28, 747-58	8.6	145
661	Corn Stover Removal for Expanded Uses Reduces Soil Fertility and Structural Stability. <i>Soil Science Society of America Journal</i> , 2009 , 73, 418-426	2.5	143
660	Continuous Application of No-Tillage to Ohio Soils. <i>Agronomy Journal</i> , 1991 , 83, 65-73	2.2	143
659	Long-term impacts of topsoil depth and amendments on soil physical and hydrological properties of an Alfisol in central Ohio, USA. <i>Geoderma</i> , 2020 , 363, 114164	6.7	142
658	SOIL MANAGEMENT IN THE DEVELOPING COUNTRIES. <i>Soil Science</i> , 2000 , 165, 57-72	0.9	142
657	Stratification ratio of soil organic matter pools as an indicator of carbon sequestration in a tillage chronosequence on a Brazilian Oxisol. <i>Soil and Tillage Research</i> , 2009 , 103, 46-56	6.5	141
656	Ecosystem carbon budgeting and soil carbon sequestration in reclaimed mine soil. <i>Environment International</i> , 2006 , 32, 781-96	12.9	140
655	ACHIEVING SOIL CARBON SEQUESTRATION IN THE UNITED STATES: A CHALLENGE TO THE POLICY MAKERS. <i>Soil Science</i> , 2003 , 168, 827-845	0.9	140
654	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	5.8	137
653	Transport of labile carbon in runoff as affected by land use and rainfall characteristics. <i>Soil and Tillage Research</i> , 2004 , 77, 111-123	6.5	137
652	The biochar dilemma. <i>Soil Research</i> , 2014 , 52, 217	1.8	135
651	Soil erosion: a carbon sink or source?. <i>Science</i> , 2008 , 319, 1040-2; author reply 1040-2	33.3	135

650	Relationships between surface soil organic carbon pool and site variables. <i>Geoderma</i> , 2004 , 121, 187-195.	6.7	133
649	Achieving Zero Net Land Degradation: Challenges and opportunities. <i>Journal of Arid Environments</i> , 2015 , 112, 44-51	2.5	132
648	LONG-TERM MANURING AND FERTILIZER EFFECTS ON DEPLETION OF SOIL ORGANIC CARBON STOCKS UNDER PEARL MILLET-CLUSTER BEAN-CASTOR ROTATION IN WESTERN INDIA. <i>Land Degradation and Development</i> , 2014 , 25, 173-183	4.4	131
647	Erosion-Crop Productivity Relationships for Soils of Africa. <i>Soil Science Society of America Journal</i> , 1995 , 59, 661-667	2.5	130
646	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	5.7	127
645	An increase in topsoil SOC stock of China's croplands between 1985 and 2006 revealed by soil monitoring. <i>Agriculture, Ecosystems and Environment</i> , 2010 , 136, 133-138	5.7	127
644	Soil carbon sequestration in sub-Saharan Africa: a review. <i>Land Degradation and Development</i> , 2005 , 16, 53-71	4.4	126
643	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	5.7	124
642	Edaphic Controls on Soil Organic Carbon Retention in the Brazilian Cerrado: Texture and Mineralogy. <i>Soil Science Society of America Journal</i> , 2007 , 71, 1204-1214	2.5	120
641	Predicting Soil Organic Carbon Stock Using Profile Depth Distribution Functions and Ordinary Kriging. <i>Soil Science Society of America Journal</i> , 2009 , 73, 614-621	2.5	119
640	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	4.4	118
639	Soil quality impacts of residue removal for bioethanol production. <i>Soil and Tillage Research</i> , 2009 , 102, 233-241	6.5	117
638	Nitrogen Management Affects Carbon Sequestration in North American Cropland Soils. <i>Critical Reviews in Plant Sciences</i> , 2007 , 26, 45-64	5.6	117
637	Soil Carbon Sequestration in India. <i>Climatic Change</i> , 2004 , 65, 277-296	4.5	117
636	Changes in soil organic carbon stocks under agriculture in Brazil. <i>Soil and Tillage Research</i> , 2005 , 84, 28-40.	5.5	117
635	Changes in soil organic carbon and nitrogen as affected by tillage and residue management under wheat/maize cropping system in the North China Plain. <i>Soil and Tillage Research</i> , 2014 , 144, 110-118	6.5	116
634	Global Soil Nutrient Depletion and Yield Reduction. <i>Agroecology and Sustainable Food Systems</i> , 2005 , 26, 123-146		116
633	Modeling soil organic matter dynamics as affected by soil water erosion. <i>Environment International</i> , 2004 , 30, 547-56	12.9	116

632	Comparison of soil quality index using three methods. <i>PLoS ONE</i> , 2014 , 9, e105981	3.7	116
631	Home gardening and urban agriculture for advancing food and nutritional security in response to the COVID-19 pandemic. <i>Food Security</i> , 2020 , 12, 1-6	6.7	115
630	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	2.3	114
629	Potential benefits of climate change for crop productivity in China. <i>Agricultural and Forest Meteorology</i> , 2015 , 208, 76-84	5.8	114
628	Carbon Sequestration in Reclaimed Minesoils. <i>Critical Reviews in Plant Sciences</i> , 2005 , 24, 151-165	5.6	112
627	Sequestering carbon in soils of arid ecosystems. <i>Land Degradation and Development</i> , 2009 , 20, 441-454	4.4	111
626	Carbon sequestration in dryland ecosystems of West Asia and North Africa. <i>Land Degradation and Development</i> , 2002 , 13, 45-59	4.4	110
625	Carbon Depletion by Plowing and its Restoration by No-Till Cropping Systems in Oxisols of Subtropical and Tropical Agro-Ecoregions in Brazil. <i>Land Degradation and Development</i> , 2015 , 26, 531-543	4.4	108
624	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	6.5	108
623	Evaluation of Different Soil Carbon Determination Methods. <i>Critical Reviews in Plant Sciences</i> , 2009 , 28, 164-178	5.6	107
622	Distribution of organic carbon in physical fractions of soils as affected by agricultural management. <i>Biology and Fertility of Soils</i> , 2010 , 46, 543-554	6.1	107
621	Energy budget and carbon footprint in a no-till and mulch based rice-mustard cropping system. <i>Journal of Cleaner Production</i> , 2018 , 191, 144-157	10.3	106
620	Societal value of soil carbon. <i>Journal of Soils and Water Conservation</i> , 2014 , 69, 186A-192A	2.2	106
619	Soil aggregation and greenhouse gas flux after 15 years of wheat straw and fertilizer management in a no-till system. <i>Soil and Tillage Research</i> , 2013 , 126, 78-89	6.5	106
618	Agroforestry and biochar to offset climate change: a review. <i>Agronomy for Sustainable Development</i> , 2013 , 33, 81-96	6.8	105
617	Enhancing Eco-efficiency in Agro-ecosystems through Soil Carbon Sequestration. <i>Crop Science</i> , 2010 , 50, S-120-S-131	2.4	104
616	Soil organic matter and CO ₂ emission as affected by water erosion on field runoff plots. <i>Geoderma</i> , 2008 , 143, 216-222	6.7	103
615	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	2.5	103

614	Food security in a changing climate. <i>Ecohydrology and Hydrobiology</i> , 2013 , 13, 8-21	2.8	102
613	Low-carbon agriculture in South America to mitigate global climate change and advance food security. <i>Environment International</i> , 2017 , 98, 102-112	12.9	100
612	Potential of mine land reclamation for soil organic carbon sequestration in Ohio. <i>Land Degradation and Development</i> , 2000 , 11, 289-297	4.4	100
611	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	5.6	99
610	Carbon stocks in Ethiopian soils in relation to land use and soil management. <i>Land Degradation and Development</i> , 2008 , 19, 351-367	4.4	98
609	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	2.5	96
608	Soil Science and the Carbon Civilization. <i>Soil Science Society of America Journal</i> , 2007 , 71, 1425-1437	2.5	95
607	A mass balance approach to assess carbon dioxide evolution during erosional events. <i>Land Degradation and Development</i> , 2001 , 12, 329-339	4.4	94
606	Carbon Footprint and Sustainability of Agricultural Production Systems in Punjab, India, and Ohio, USA. <i>Journal of Crop Improvement</i> , 2009 , 23, 332-350	1.4	93
605	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	6.5	93
604	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	3.5	91
603	Agroforestry systems and soil surface management of a tropical alfisol. <i>Agroforestry Systems</i> , 1989 , 8, 97-111	2	91
602	Experimental Consideration, Treatments, and Methods in Determining Soil Organic Carbon Sequestration Rates. <i>Soil Science Society of America Journal</i> , 2014 , 78, 348-360	2.5	90
601	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	2.5	89
600	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	6.5	89
599	Soil carbon stocks under present and future climate with specific reference to European ecoregions. <i>Nutrient Cycling in Agroecosystems</i> , 2008 , 81, 113-127	3.3	89
598	Towards a global-scale soil climate mitigation strategy. <i>Nature Communications</i> , 2020 , 11, 5427	17.4	87
597	SOIL EROSION AND CARBON DYNAMICS UNDER SIMULATED RAINFALL. <i>Soil Science</i> , 2004 , 169, 590-596	0.9	86

596	Soil degradation: I. Basic processes. <i>Land Degradation and Development</i> , 1989 , 1, 51-69	4.4	86
595	Managing the soils of sub-saharan Africa. <i>Science</i> , 1987 , 236, 1069-76	33.3	86
594	Anthropogenic Influences on World Soils and Implications to Global Food Security. <i>Advances in Agronomy</i> , 2007 , 69-93	7.7	85
593	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	6.5	85
592	Deforestation and land-use effects on soil degradation and rehabilitation in western Nigeria. I. Soil physical and hydrological properties. <i>Land Degradation and Development</i> , 1996 , 7, 19-45	4.4	84
591	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	6.5	82
590	Soil Structure and Sustainability. <i>Agroecology and Sustainable Food Systems</i> , 1991 , 1, 67-92		82
589	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	6.5	81
588	The carbon sequestration potential of terrestrial ecosystems. <i>Journal of Soils and Water Conservation</i> , 2018 , 73, 145A-152A	2.2	81
587	Effects of soil erosion on crop productivity. <i>Critical Reviews in Plant Sciences</i> , 1987 , 5, 303-367	5.6	80
586	Soil conservation and ecosystem services. <i>International Soil and Water Conservation Research</i> , 2014 , 2, 36-47	6.9	79
585	The Role of Residues Management in Sustainable Agricultural Systems. <i>Agroecology and Sustainable Food Systems</i> , 1995 , 5, 51-78		79
584	Carbon and nitrogen pools in reclaimed land under forest and pasture ecosystems in Ohio, USA. <i>Geoderma</i> , 2010 , 157, 196-205	6.7	78
583	Soil restorative effects of mulching on aggregation and carbon sequestration in a Miamian soil in central Ohio. <i>Land Degradation and Development</i> , 2003 , 14, 481-493	4.4	78
582	Offsetting global CO ₂ emissions by restoration of degraded soils and intensification of world agriculture and forestry. <i>Land Degradation and Development</i> , 2003 , 14, 309-322	4.4	77
581	Long-term effects of tillage and straw management on soil organic carbon, crop yield, and yield stability in a wheat-maize system. <i>Field Crops Research</i> , 2019 , 233, 33-40	5.5	77
580	Soil carbon management and climate change. <i>Carbon Management</i> , 2013 , 4, 439-462	3.3	76
579	A system approach to conservation agriculture. <i>Journal of Soils and Water Conservation</i> , 2015 , 70, 82A-88A		75

578	Carbon dioxide evolution in runoff from simulated rainfall on long-term no-till and plowed soils in southwestern Ohio. <i>Soil and Tillage Research</i> , 2002 , 66, 23-33	6.5	75
577	Managing world soils for food security and environmental quality. <i>Advances in Agronomy</i> , 2001 , 74, 155-192	7.2	75
576	Methane and nitrous oxide emissions under no-till farming in China: a meta-analysis. <i>Global Change Biology</i> , 2016 , 22, 1372-84	11.4	75
575	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	6.5	74
574	Changes in Properties of a Newly Cleared Tropical Alfisol as Affected by Mulching. <i>Soil Science Society of America Journal</i> , 1980 , 44, 827-833	2.5	74
573	Soil organic carbon dynamics 75 years after land-use change in perennial grassland and annual wheat agricultural systems. <i>Biogeochemistry</i> , 2014 , 120, 37-49	3.8	73
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