

Using cover crops to mitigate and adapt to climate change

Agronomy for Sustainable Development

37, 1

DOI: [10.1007/s13593-016-0410-x](https://doi.org/10.1007/s13593-016-0410-x)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Can agricultural practices that mitigate or improve crop resilience to climate change also manage crop pests?. <i>Current Opinion in Insect Science</i> , 2017, 23, 81-88.	2.2	46
2	Improving water resilience with more perennially based agriculture. <i>Agroecology and Sustainable Food Systems</i> , 2017, 41, 799-824.	1.0	18
3	The potential of reducing tillage frequency and incorporating plant residues as a strategy for climate change mitigation in semiarid Mediterranean agroecosystems. <i>Agriculture, Ecosystems and Environment</i> , 2017, 246, 210-220.	2.5	53
4	Mapping and linking supply- and demand-side measures in climate-smart agriculture. A review. <i>Agronomy for Sustainable Development</i> , 2017, 37, 1.	2.2	55
5	In-Field Habitat Management to Optimize Pest Control of Novel Soil Communities in Agroecosystems. <i>Insects</i> , 2017, 8, 82.	1.0	26
6	Cover crops mitigate direct greenhouse gases balance but reduce drainage under climate change scenarios in temperate climate with dry summers. <i>Global Change Biology</i> , 2018, 24, 2513-2529.	4.2	41
7	Importance of cover crops in alleviating negative effects of reduced soil tillage and promoting soil fertility in a winter wheat cropping system. <i>Agriculture, Ecosystems and Environment</i> , 2018, 256, 92-104.	2.5	81
8	Analysis and modeling of cover crop emergence: Accuracy of a static model and the dynamic STICS soil-crop model. <i>European Journal of Agronomy</i> , 2018, 93, 73-81.	1.9	25
9	What is the potential of cropland albedo management in the fight against global warming? A case study based on the use of cover crops. <i>Environmental Research Letters</i> , 2018, 13, 044030.	2.2	56
10	Framework for improved confidence in modeled nitrous oxide estimates for biofuel regulatory standards. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2018, 23, 1281-1301.	1.0	8
11	Cover crops to mitigate soil degradation and enhance soil functionality in irrigated land. <i>Geoderma</i> , 2018, 322, 81-88.	2.3	74
12	Exploring the Connections between Agroecological Practices and Ecosystem Services: A Systematic Literature Review. <i>Sustainability</i> , 2018, 10, 4339.	1.6	47
13	Impact of land use during winter on the balance of greenhouse gases. <i>Soil Use and Management</i> , 2018, 34, 525-532.	2.6	5
14	Intercrops improve the drought resistance of young rubber trees. <i>Agronomy for Sustainable Development</i> , 2018, 38, 1.	2.2	9
15	Cover Crops May Cause Winter Warming in Snow-Covered Regions. <i>Geophysical Research Letters</i> , 2018, 45, 9889-9897.	1.5	22
16	Response of Soil Surface Greenhouse Gas Fluxes to Crop Residue Removal and Cover Crops under a Corn-Soybean Rotation. <i>Journal of Environmental Quality</i> , 2018, 47, 1146-1154.	1.0	38
17	Legacy of eight-year cover cropping on mycorrhizae, soil, and plants. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 818-826.	1.1	21
18	Quantitative synthesis on the ecosystem services of cover crops. <i>Earth-Science Reviews</i> , 2018, 185, 357-373.	4.0	228

#	ARTICLE	IF	CITATIONS
19	Potentials to mitigate greenhouse gas emissions from Swiss agriculture. <i>Agriculture, Ecosystems and Environment</i> , 2018, 265, 84-102.	2.5	20
20	Cover Crops and Fertilization Alter Nitrogen Loss in Organic and Conventional Conservation Agriculture Systems. <i>Frontiers in Plant Science</i> , 2017, 8, 2260.	1.7	43
21	Improving the Yield and Nutritional Quality of Forage Crops. <i>Frontiers in Plant Science</i> , 2018, 9, 535.	1.7	122
22	Implications of Observed and Simulated Soil Carbon Sequestration for Management Options in Corn-based Rotations. <i>Journal of Environmental Quality</i> , 2018, 47, 617-624.	1.0	11
23	<i>Brachypodium distachyon</i> , <i>Sinapis alba</i> , and controlled spontaneous vegetation as groundcovers: Soil protection and modeling decomposition. <i>Agriculture, Ecosystems and Environment</i> , 2018, 265, 62-72.	2.5	14
24	Cover crop rotations affect greenhouse gas emissions and crop production in Illinois, USA. <i>Field Crops Research</i> , 2019, 241, 107580.	2.3	38
25	Service crop management to maximize crop water supply and improve agroecosystem resilience: A review. <i>Journal of Soils and Water Conservation</i> , 2019, 74, 389-404.	0.8	13
26	Adoption of Cover Crops by U.S. Soybean Producers. <i>Journal of Agricultural &amp; Applied Economics</i> , 2019, 51, 527-544.	0.8	26
27	Sustainable intensification of agricultural drainage. <i>Nature Sustainability</i> , 2019, 2, 914-921.	11.5	80
28	Soil and Water Conservation in Agricultural and Forestry Systems. <i>Water (Switzerland)</i> , 2019, 11, 1937.	1.2	10
29	Effects of cover crops on multiple ecosystem services: Ten meta-analyses of data from arable farmland in California and the Mediterranean. <i>Land Use Policy</i> , 2019, 88, 104204.	2.5	65
30	Effective climate change mitigation through cover cropping and integrated fertilization: A global warming potential assessment from a 10-year field experiment. <i>Journal of Cleaner Production</i> , 2019, 241, 118307.	4.6	43
31	Greenhouse Gas Emissions from Soil Cultivated with Vegetables in Crop Rotation under Integrated, Organic and Organic Conservation Management in a Mediterranean Environment. <i>Agronomy</i> , 2019, 9, 446.	1.3	20
32	Crucifer-legume cover crop mixtures for biocontrol: Toward a new multi-service paradigm. <i>Advances in Agronomy</i> , 2019, , 55-139.	2.4	33
33	Assessing the cover crop effect on soil hydraulic properties by inverse modelling in a 10-year field trial. <i>Agricultural Water Management</i> , 2019, 222, 62-71.	2.4	23
34	Managing Ecosystem Services with Cover Crop Mixtures on Organic Farms. <i>Agronomy Journal</i> , 2019, 111, 826-840.	0.9	21
35	Nutrient cycling in multifunctional agroecosystems with the use of plant cocktail as cover crop and green manure in the semi-arid. <i>African Journal of Agricultural Research Vol Pp</i> , 2019, 14, 241-251.	0.2	4
36	Effect of Cover Crop on Farm Profitability and Risk in the Southern High Plains. <i>Sustainability</i> , 2019, 11, 7119.	1.6	3

#	ARTICLE	IF	CITATIONS
37	Nitrogen fixation in summer-grown soybean crops and fate of fixed-N over a winter fallow in subtropical sugarcane systems. <i>Soil Research</i> , 2019, 57, 845.	0.6	5
38	Characterization of Cover Crop Rooting Types from Integration of Rhizobox Imaging and Root Atlas Information. <i>Plants</i> , 2019, 8, 514.	1.6	14
39	Agro-environmental aspects of conservation agriculture compared to conventional systems: A 3-year experience on 20 farms in the Po valley (Northern Italy). <i>Agricultural Systems</i> , 2019, 168, 73-87.	3.2	34
40	Emergence of Climate Change Ecology. , 2019, , 42-49.		1
41	Greenhouse mitigation strategies for agronomic and grazing lands of the US Southern Great Plains. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2020, 25, 819-853.	1.0	11
42	Input and mineralization of carbon and nitrogen in soil from legume-based cover crops. <i>Nutrient Cycling in Agroecosystems</i> , 2020, 116, 1-18.	1.1	37
43	Optimizing livestock feed provision to improve the efficiency of the agri-food system. <i>Agroecology and Sustainable Food Systems</i> , 2020, 44, 188-214.	1.0	8
44	Advancing the Understanding of Adaptive Capacity of Social-€Ecological Systems to Absorb Climate Extremes. <i>Earth's Future</i> , 2020, 8, e2019EF001221.	2.4	28
45	Integrated management for sustainable cropping systems: Looking beyond the greenhouse balance at the field scale. <i>Global Change Biology</i> , 2020, 26, 2584-2598.	4.2	23
46	Cover crops improve early season natural enemy recruitment and pest management in cotton production. <i>Biological Control</i> , 2020, 141, 104149.	1.4	31
47	Do cover crops benefit soil microbiome? A meta-analysis of current research. <i>Soil Biology and Biochemistry</i> , 2020, 142, 107701.	4.2	224
48	Cover crop diversity improves multiple soil properties via altering root architectural traits. <i>Rhizosphere</i> , 2020, 16, 100248.	1.4	49
49	Straw Type and Nitrogen Fertilization Influence Winter Common Bean Yield and Quality. <i>International Journal of Plant Production</i> , 2020, 14, 703-712.	1.0	5
50	Cover crops and precipitation influence soluble reactive phosphorus losses via tile drain discharge in an agricultural watershed. <i>Hydrological Processes</i> , 2020, 34, 4446-4458.	1.1	8
51	Optimized crop rotations increase biomass production without significantly changing soil carbon and nitrogen stock. <i>Ecological Indicators</i> , 2020, 117, 106669.	2.6	28
52	Effectiveness of Cover Crops to Reduce Loss of Soil Organic Matter in a Rainfed Vineyard. <i>Land</i> , 2020, 9, 230.	1.2	66
53	Cumulative impact of cover crops on soil carbon sequestration and profitability in a temperate humid climate. <i>Scientific Reports</i> , 2020, 10, 13381.	1.6	47
54	How mulching and canopy architecture interact in trapping solar radiation inside a Mediterranean greenhouse. <i>Agricultural and Forest Meteorology</i> , 2020, 294, 108132.	1.9	6

#	ARTICLE	IF	CITATIONS
55	Soil aggregation and potential carbon and nitrogen mineralization with cover crops under tropical no-till. <i>Journal of Soils and Water Conservation</i> , 2020, 75, 601-609.	0.8	23
56	Using the organic system plan template as a policy lever for improving biodiversity on US organic farms. <i>Organic Agriculture</i> , 2020, 10, 149-157.	1.2	0
57	Assessing Soil Organic Carbon in Soils to Enhance and Track Future Carbon Stocks. <i>Agronomy</i> , 2020, 10, 1139.	1.3	8
58	Soil carbon fluxes and balances of crop rotations under long-term no-till. <i>Carbon Balance and Management</i> , 2020, 15, 19.	1.4	16
59	Adherence to recommended intake of pulses and related factors in university students in the UniHcos project. <i>British Journal of Nutrition</i> , 2021, 126, 428-440.	1.2	1
60	Vertical Root Distribution of Different Cover Crops Determined with the Profile Wall Method. <i>Agriculture (Switzerland)</i> , 2020, 10, 503.	1.4	24
61	Drainage N Loads Under Climate Change with Winter Rye Cover Crop in a Northern Mississippi River Basin Corn-Soybean Rotation. <i>Sustainability</i> , 2020, 12, 7630.	1.6	8
62	Mitigation of emerging implications of climate change on food production systems. <i>Food Research International</i> , 2020, 134, 109256.	2.9	143
63	Spatiotemporal variations of albedo in managed agricultural landscapes: inferences to global warming impacts (GWI). <i>Landscape Ecology</i> , 2020, 35, 1385-1402.	1.9	13
64	Soil functions are affected by transition from conventional to organic mulch-based cropping system. <i>Applied Soil Ecology</i> , 2020, 153, 103639.	2.1	16
65	Impact of Cover Crops on Insect Community Dynamics in Organic Farming. <i>Agriculture (Switzerland)</i> , 2020, 10, 209.	1.4	10
66	The Ability of Conservation Agriculture to Conserve Soil Organic Carbon and the Subsequent Impact on Soil Physical, Chemical, and Biological Properties and Yield. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	1.8	141
67	The Duality of Reforestation Impacts on Surface and Air Temperature. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005543.	1.3	38
68	Sustainable intensification of corn silage cropping systems with winter rye. <i>Agronomy for Sustainable Development</i> , 2020, 40, 1.	2.2	21
69	Agroecology for adaptation to climate change and resource depletion in the Mediterranean region. A review. <i>Agricultural Systems</i> , 2020, 181, 102809.	3.2	90
70	Do Cover Crop And Soil-Mediated Legacy Influence Succeeding Wheat Production?. <i>Communications in Soil Science and Plant Analysis</i> , 2020, 51, 1514-1524.	0.6	1
71	Estimation of daily CO <sub>2</sub> fluxes and of the components of the carbon budget for winter wheat by the assimilation of Sentinel 2-like remote sensing data into a crop model. <i>Geoderma</i> , 2020, 376, 114428.	2.3	19
72	Soil test biological activity with the flush of CO <sub>2</sub> : V. Validation of nitrogen prediction for corn production. <i>Agronomy Journal</i> , 2020, 112, 2188-2204.	0.9	23

#	ARTICLE	IF	CITATIONS
73	Assessing synergistic effects of no-tillage and cover crops on soil carbon dynamics in a long-term maize cropping system under climate change. <i>Agricultural and Forest Meteorology</i> , 2020, 291, 108090.	1.9	34
74	Impact of Cover Crops on the Soil Microbiome of Tree Crops. <i>Microorganisms</i> , 2020, 8, 328.	1.6	39
75	Floating Azolla Cover Influences Evapotranspiration from Flooded Water Surfaces. <i>Wetlands</i> , 2020, 40, 1425-1432.	0.7	9
76	A database for global soil health assessment. <i>Scientific Data</i> , 2020, 7, 16.	2.4	39
77	Cover crops reduce drainage but not always soil water content due to interactions between rainfall distribution and management. <i>Agricultural Water Management</i> , 2020, 231, 105998.	2.4	28
78	A calculator to quantify cover crop effects on soil health and productivity. <i>Soil and Tillage Research</i> , 2020, 199, 104575.	2.6	41
79	Impacts of Smooth Pigweed ( <i>Amaranthus hybridus</i> ) on Cover Crops in Southern Ontario. <i>Agronomy</i> , 2020, 10, 529.	1.3	4
80	How Can Sustainable Agriculture Increase Climate Resilience? A Systematic Review. <i>Sustainability</i> , 2020, 12, 3119.	1.6	43
81	Climate-resilient and smart agricultural management tools to cope with climate change-induced soil quality decline. , 2020, , 613-662.		5
82	Root traits of cover crops and carbon inputs in an organic grain rotation. <i>Renewable Agriculture and Food Systems</i> , 2021, 36, 182-191.	0.8	27
83	Climate change versus land-use change—What affects the ecosystem services more in the forest-steppe ecotone?. <i>Science of the Total Environment</i> , 2021, 759, 143525.	3.9	61
84	Soil carbon and nitrogen fractions and physical attributes affected by soil acidity amendments under no-till on Oxisol in Brazil. <i>Geoderma Regional</i> , 2021, 24, e00347.	0.9	12
85	Management of cover crops in temperate climates influences soil organic carbon stocks: a meta-analysis. <i>Ecological Applications</i> , 2021, 31, e02278.	1.8	95
86	Restoring soil quality of woody agroecosystems in Mediterranean drylands through regenerative agriculture. <i>Agriculture, Ecosystems and Environment</i> , 2021, 306, 107191.	2.5	36
87	Smallholder oil palm farmers's pro-adaptation behaviour under climate impact scenario: application of protection Motivation Theory. <i>Climate and Development</i> , 2021, 13, 475-483.	2.2	8
88	Evaluation of Warm Season Annual Forages for Livestock: Biomass and Cost of Production. <i>Kansas Agricultural Experiment Station Research Reports</i> , 2021, 7, .	0.0	0
89	Grazing of cover crops in integrated crop-livestock systems. <i>Animal</i> , 2021, 15, 100054.	1.3	12
91	Improving the representation of cropland sites in the Community Land Model (CLM) version 5.0. <i>Geoscientific Model Development</i> , 2021, 14, 573-601.	1.3	18

#	ARTICLE	IF	CITATIONS
93	Best Management Practices for Sustaining Agricultural Production at Choctawhatchee Watershed in Alabama, USA, in Response to Climate Change. <i>Air, Soil and Water Research</i> , 2021, 14, 117862212199178.	1.2	5
94	Soil organic C affected by dry-season management of no-till soybean crop rotations in the tropics. <i>Plant and Soil</i> , 2021, 462, 577-590.	1.8	4
95	Cover Crop Complements Flue Gas Desulfurized Gypsum to Improve No-till Soil Quality. <i>Communications in Soil Science and Plant Analysis</i> , 2021, 52, 926-947.	0.6	23
96	Weeds in Cover Crops: Context and Management Considerations. <i>Agriculture (Switzerland)</i> , 2021, 11, 193.	1.4	4
97	Estimating the carbon storage potential and greenhouse gas emissions of French arable cropland using high-resolution modeling. <i>Global Change Biology</i> , 2021, 27, 1645-1661.	4.2	41
98	Large-scale farmer-led experiment demonstrates positive impact of cover crops on multiple soil health indicators. <i>Nature Food</i> , 2021, 2, 97-103.	6.2	44
99	Mitigating nitrogen pollution with under-sown legume-grass cover crop mixtures in winter cereals. <i>Journal of Environmental Quality</i> , 2021, 50, 324-335.	1.0	7
100	Intercropping and rotation with leguminous plants in organic vegetables: crop performance, soil properties and sustainability assessment. <i>Biological Agriculture and Horticulture</i> , 2021, 37, 141-167.	0.5	8
101	Are climate risks encouraging cover crop adoption among farmers in the southern Wabash River Basin?. <i>Land Use Policy</i> , 2021, 102, 105268.	2.5	14
102	Greenhouse gas balance and mitigation potential of agricultural systems in Colombia: A systematic analysis. , 2021, 11, 554-572.		6
103	Soil Productivity Degradation in a Long-Term Eroded Olive Orchard under Semiarid Mediterranean Conditions. <i>Agronomy</i> , 2021, 11, 812.	1.3	14
104	Cover crops decrease maize yield variability in sloping landscapes through increased water during reproductive stages. <i>Field Crops Research</i> , 2021, 265, 108111.	2.3	18
105	Cover crop effects on maize drought stress and yield. <i>Agriculture, Ecosystems and Environment</i> , 2021, 311, 107294.	2.5	35
106	Short-term cover crop carbon inputs to soil as affected by long-term cropping system management and soil fertility. <i>Agriculture, Ecosystems and Environment</i> , 2021, 311, 107339.	2.5	17
107	Impact of climate change on cereal production: evidence from lower-middle-income countries. <i>Environmental Science and Pollution Research</i> , 2021, 28, 51597-51611.	2.7	60
108	Combined heat and drought suppress rainfed maize and soybean yields and modify irrigation benefits in the USA. <i>Environmental Research Letters</i> , 2021, 16, 064023.	2.2	31
109	Relative contributions of climate and land-use change to ecosystem services in arid inland basins. <i>Journal of Cleaner Production</i> , 2021, 298, 126844.	4.6	38
110	Detecting Winter Cover Crops and Crop Residues in the Midwest US Using Machine Learning Classification of Thermal and Optical Imagery. <i>Remote Sensing</i> , 2021, 13, 1998.	1.8	12

#	ARTICLE	IF	CITATIONS
111	Understanding spatial and temporal variability of N leaching reduction by winter cover crops under climate change. <i>Science of the Total Environment</i> , 2021, 771, 144770.	3.9	20
112	Agricultural Greenhouse Gas Emissions in a Data-Scarce Region Using a Scenario-Based Modeling Approach: A Case Study in Southeastern USA. <i>Agronomy</i> , 2021, 11, 1323.	1.3	5
113	Climate-resilient strategies for sustainable management of water resources and agriculture. <i>Environmental Science and Pollution Research</i> , 2021, 28, 41576-41595.	2.7	78
114	Watershed-scale Land Use Change Increases Ecosystem Metabolism in an Agricultural Stream. <i>Ecosystems</i> , 0, , 1.	1.6	2
115	Comparison of resilience of different plant teams to drought and temperature extremes in Denmark in sole and intercropping systems. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 2021, 71, 645-655.	0.3	2
116	Nitrogen Fertilizer Efficiency Determined by the 15N Dilution Technique in Maize Followed or Not by a Cover Crop in Mediterranean Chile. <i>Agriculture (Switzerland)</i> , 2021, 11, 721.	1.4	3
117	Organic Fertilization and Tree Orchards. <i>Agriculture (Switzerland)</i> , 2021, 11, 692.	1.4	15
118	Organic fertility inputs synergistically increase denitrification-derived nitrous oxide emissions in agroecosystems. <i>Ecological Applications</i> , 2021, 31, e02403.	1.8	21
119	Quantifying nitrogen loss hotspots and mitigation potential for individual fields in the US Corn Belt with a metamodeling approach. <i>Environmental Research Letters</i> , 2021, 16, 075008.	2.2	5
120	Modelling land system evolution and dynamics of terrestrial carbon stocks in the Luanhe River Basin, China: a scenario analysis of trade-offs and synergies between sustainable development goals. <i>Sustainability Science</i> , 2022, 17, 1323-1345.	2.5	19
121	Impact of Cover Crop Monocultures and Mixtures on Organic Carbon Contents of Soil Aggregates. <i>Soil Systems</i> , 2021, 5, 43.	1.0	4
122	Phytomanagement of Metal(loid)-Contaminated Soils: Options, Efficiency and Value. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	17
123	Conservation Agriculture Effects on Soil Water Holding Capacity and Water-Saving Varied with Management Practices and Agroecological Conditions: A Review. <i>Agronomy</i> , 2021, 11, 1681.	1.3	32
124	Harnessing Indigenous Technologies for Sustainable Management of Land, Water, and Food Resources Amidst Climate Change. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	9
125	Conservation management decreases surface runoff and soil erosion. <i>International Soil and Water Conservation Research</i> , 2022, 10, 188-196.	3.0	57
126	The role of soil in the contribution of food and feed. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200181.	1.8	29
127	A 3-year field study to assess winter cover crops as nitrogen sources for an organic maize crop in Mediterranean Portugal. <i>European Journal of Agronomy</i> , 2021, 128, 126302.	1.9	6
128	Responses of $\beta$ -glucosidase, permanganate oxidizable carbon, and fluorescein diacetate hydrolysis to conservation practices. <i>Soil Science Society of America Journal</i> , 2021, 85, 1649-1662.	1.2	5



#	ARTICLE	IF	CITATIONS
129	Climate change and cover crop effects on water use efficiency of a corn-soybean rotation system. <i>Agricultural Water Management</i> , 2021, 255, 107042.	2.4	10
130	Cover crops promote primary crop yield in China: A meta-regression of factors affecting yield gain. <i>Field Crops Research</i> , 2021, 271, 108237.	2.3	29
131	Using cover crops to offset greenhouse gas emissions from a tropical soil under no-till. <i>Experimental Agriculture</i> , 2021, 57, 217-231.	0.4	1
132	Winter cover crops and no-till promote soil macrofauna communities in irrigated, Mediterranean cropland in California, USA. <i>Applied Soil Ecology</i> , 2021, 166, 104068.	2.1	11
133	Projections of soil loss by water erosion in Europe by 2050. <i>Environmental Science and Policy</i> , 2021, 124, 380-392.	2.4	111
134	Assessing the impacts of cover crops on maize and soybean yield in the U.S. Midwestern agroecosystems. <i>Field Crops Research</i> , 2021, 273, 108264.	2.3	40
135	Optimizing cover crop and fertilizer timing for high maize yield and nitrogen cycle control. <i>Geoderma</i> , 2022, 405, 115423.	2.3	20
136	Combined Impact of No-Till and Cover Crops with or without Short-Term Water Stress as Revealed by Physicochemical and Microbiological Indicators. <i>Biology</i> , 2021, 10, 23.	1.3	4
137	Regional Drought Monitoring for Managing Water Security in South Asia. , 2021, , 465-481.		0
138	Agroecological practices for whole-system sustainability. <i>CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources</i> , 0, , .	0.6	4
139	A Pathway to Carbon Neutral Agriculture in Denmark. , 0, , .		12
140	Crop cover is more important than rotational diversity for soil multifunctionality and cereal yields in European cropping systems. <i>Nature Food</i> , 2021, 2, 28-37.	6.2	120
141	Efficient Groundcovers in Mediterranean Olive Groves Under Changing Climate. , 2020, , 729-760.		2
142	Catch crop diversity increases rhizosphere carbon input and soil microbial biomass. <i>Biology and Fertility of Soils</i> , 2020, 56, 943-957.	2.3	31
143	Maximising climate mitigation potential by carbon and radiative agricultural land management with cover crops. <i>Environmental Research Letters</i> , 2020, 15, 094075.	2.2	26
144	The evaluation of basal respiration and some chemical properties of soils under cover crop treatments in a cherry orchard. <i>Eurasian Journal of Soil Science</i> , 2020, 9, 151-164.	0.2	2
146	The Role of Cover Crops towards Sustainable Soil Health and Agriculture – A Review Paper. <i>American Journal of Plant Sciences</i> , 2018, 09, 1935-1951.	0.3	81
149	Agronomic and Environmental Performances of On-Farm Compost Production and Application in an Organic Vegetable Rotation. <i>Agronomy</i> , 2021, 11, 2073.	1.3	5

#	ARTICLE	IF	CITATIONS
150	The Role of Sequential Cropping and Biogasdonerightâ„¢ in Enhancing the Sustainability of Agricultural Systems in Europe. <i>Agronomy</i> , 2021, 11, 2102.	1.3	3
152	Building Climate Change Adaptation and Resilience through Soil Organic Carbon Restoration in Sub-Saharan Rural Communities: Challenges and Opportunities. <i>Sustainability</i> , 2021, 13, 10966.	1.6	10
153	Short-term response of soil greenhouse gas fluxes to alfalfa termination methods in a Mediterranean cropping system. <i>Soil Science and Plant Nutrition</i> , 2022, 68, 124-132.	0.8	7
154	<i>Trifolium subterraneum</i> cover cropping enhances soil fertility and weed seedbank dynamics in a Mediterranean apricot orchard. <i>Agronomy for Sustainable Development</i> , 2021, 41, 1.	2.2	16
156	Genotypic Differences in Root System Size in White Mustard in Relation to Biomass Yield and Soil Nitrogen Content. <i>Acta Universitatis Agriculturae Et Silviculturae Mendelianae Brunensis</i> , 2018, 66, 871-881.	0.2	1
158	Detecting spikes and change points in climate-food system: A case study in France. <i>Environmental Science and Policy</i> , 2022, 127, 146-160.	2.4	3
159	No-Till Farming Systems for Sustaining Soil Health. , 2020, , 619-631.		0
160	Sustainable agriculture through perennial grains: Wheat, rice, maize, and other species. A review. <i>Agriculture, Ecosystems and Environment</i> , 2022, 325, 107747.	2.5	26
161	Short-term effects of cover crops on soil properties and the abundance of N-cycling genes in citrus agroecosystems. <i>Applied Soil Ecology</i> , 2022, 172, 104341.	2.1	16
163	Agricultural Greenhouse Gas Fluxes Under Different Cover Crop Systems. <i>Frontiers in Climate</i> , 2022, 3, .	1.3	3
164	Greenhouse gas emissions and C costs of N release associated with cover crop decomposition are plant specific and depend on soil moisture: A microcosm study. <i>Journal of Environmental Quality</i> , 2022, 51, 193-204.	1.0	2
165	Cultivating trust in technologyâ€mediated sustainable agricultural research. <i>Agronomy Journal</i> , 2022, 114, 2669-2680.	0.9	2
166	Effect of field pea ( <i>Pisum sativum</i> subsp. <i>arvense</i> (L.) Asch.) and pea-oat ( <i>Avena sativa</i> L.) biculture cover crops on high tunnel vegetable under organic production system. <i>Organic Agriculture</i> , 2022, 12, 91-106.	1.2	2
167	Cover crops in a wisconsin annual cropping system: Feasibility and yield impacts. <i>Agronomy Journal</i> , 0, , .	0.9	7
168	Albedo-Induced Global Warming Impact at Multiple Temporal Scales within an Upper Midwest USA Watershed. <i>Land</i> , 2022, 11, 283.	1.2	5
169	The role of cover crops for cropland soil carbon, nitrogen leaching, and agricultural yields â€ a global simulation study with LPJmL (V. 5.0-tillage-cc). <i>Biogeosciences</i> , 2022, 19, 957-977.	1.3	15
170	Using aquatic animals as partners to increase yield and maintain soil nitrogen in the paddy ecosystems. <i>ELife</i> , 2022, 11, .	2.8	17
171	How Much Margin Is Left for Degrading Agricultural Soils? The Coming Soil Crises. <i>Soil Systems</i> , 2022, 6, 22.	1.0	5

#	ARTICLE	IF	CITATIONS
172	Root traits in cover crop mixtures of blue lupin and winter rye. <i>Plant and Soil</i> , 2022, 475, 309-328.	1.8	2
173	Cover crop mixtures increase ecosystem multifunctionality in summer crop rotations with low N fertilization. <i>Agronomy for Sustainable Development</i> , 2022, 42, .	2.2	6
174	Mapping Agricultural Lands: From Conventional to Regenerative. <i>Land</i> , 2022, 11, 437.	1.2	4
175	Informing Nature-based Climate Solutions for the United States with the best available science. <i>Global Change Biology</i> , 2022, 28, 3778-3794.	4.2	28
176	Soil nitrogen and water management by winter-killed catch crops. <i>Soil</i> , 2022, 8, 269-281.	2.2	7
177	How much is policy driving the adoption of cover crops? Evidence from four EU regions. <i>Land Use Policy</i> , 2022, 116, 106016.	2.5	23
178	Improvements in soil health and soil carbon sequestration by an agroforestry for food production system. <i>Agriculture, Ecosystems and Environment</i> , 2022, 333, 107945.	2.5	18
179	Cover crop legacy impacts on soil water and nitrogen dynamics, and on subsequent crop yields in drylands: a meta-analysis. <i>Agronomy for Sustainable Development</i> , 2022, 42, .	2.2	31
180	Ecosystem services of cover crops: a research roadmap. <i>Trends in Plant Science</i> , 2022, 27, 758-768.	4.3	18
181	Biological nitrogen fixation and prospects for ecological intensification in cereal-based cropping systems. <i>Field Crops Research</i> , 2022, 283, 108541.	2.3	50
182	The potential of cover crops to increase soil organic carbon storage in German croplands. <i>Plant and Soil</i> , 2023, 488, 157-173.	1.8	22
183	Assessment of ecosystem services knowledge, attitudes, and practices of coffee farmers using legume cover crops. <i>Ecosphere</i> , 2022, 13, .	1.0	0
184	Evaluation of a crop rotation with biological inhibition potential to avoid N <sub>2</sub> O emissions in comparison with synthetic nitrification inhibition. <i>Journal of Environmental Sciences</i> , 2023, 127, 222-233.	3.2	8
185	A New Framework to Assess Sustainability of Soil Improving Cropping Systems in Europe. <i>Land</i> , 2022, 11, 729.	1.2	5
186	Prospects for summer cover crops in southern Australian semi-arid cropping systems. <i>Agricultural Systems</i> , 2022, 200, 103415.	3.2	17
187	Albedo on cropland: Field-scale effects of current agricultural practices in Northern Europe. <i>Agricultural and Forest Meteorology</i> , 2022, 321, 108978.	1.9	4
188	Albedo impacts of current agricultural land use: Crop-specific albedo from MODIS data and inclusion in LCA of crop production. <i>Science of the Total Environment</i> , 2022, 835, 155455.	3.9	7
189	Impact of spatio-temporal land surface temperature on cropping pattern and land use and land cover changes using satellite imagery, Hafizabad District, Punjab, Province of Pakistan. <i>Arabian Journal of Geosciences</i> , 2022, 15, .	0.6	28

#	ARTICLE	IF	CITATIONS
190	Does Water Quality Matter for Life Quality? A Study of the Impact of Water Quality on Well-being in a Coastal Community. <i>Environmental Management</i> , 2022, 70, 464-474.	1.2	7
191	Prospecting microbial biofilms as climate smart strategies for improving plant and soil health: A review. <i>Pedosphere</i> , 2023, 33, 129-152.	2.1	8
192	Incorporating energy cover crops for biogas production into agricultural systems: benefits and environmental impacts. A review. <i>Agronomy for Sustainable Development</i> , 2022, 42, .	2.2	9
193	Impact of symbiotic mycorrhiza interrelation in some soil biological parameters and growth of five cover crops. <i>Agrokemia Es Talajtan</i> , 2022, 71, 135-147.	0.1	1
194	Cover Crop Species Affect N2O Emissions at Hotspot Moments of Summer Crops. <i>Frontiers in Soil Science</i> , 0, 2, .	0.8	1
195	Introducing and expanding cover crops at the watershed scale: Impact on water flows. <i>Agriculture, Ecosystems and Environment</i> , 2022, 337, 108050.	2.5	3
196	Soil carbon and legumes. , 2022, , 329-344.		0
197	Pioneering Farmers Value Agronomic Performance of Cover Crops and Their Impacts on Soil and Environment. <i>Sustainability</i> , 2022, 14, 8067.	1.6	4
198	Albedo changes caused by future urbanization contribute to global warming. <i>Nature Communications</i> , 2022, 13, .	5.8	48
199	Assessing Farmer Incentives for Transitioning Toward Sustainable Agriculture and Provisioning of Clean Water. <i>Frontiers in Water</i> , 0, 4, .	1.0	0
200	Environmental Issues: Greenhouse Gas Emissions. , 2023, , .		0
201	Net greenhouse gas balance with cover crops in semi-arid irrigated cropping systems. <i>Scientific Reports</i> , 2022, 12, .	1.6	5
202	Soil hydraulic arrangement and agro-ecological practices in organic rotations: effects on crop performance, soil properties and carbon balance. <i>Agroecology and Sustainable Food Systems</i> , 0, , 1-25.	1.0	1
203	Soil Carbon Sequestration and Biochar. <i>RSC Energy and Environment Series</i> , 2022, , 194-243.	0.2	1
204	Biocharâ€œcompost mixture and cover crop effects on soil carbon and nitrogen dynamics, yield, and fruit quality in an irrigated vineyard. <i>Canadian Journal of Soil Science</i> , 2023, 103, 200-212.	0.5	2
205	A Review of Research Progress on Soil Organic Cover Machinery in China. <i>Agriculture (Switzerland)</i> , 2022, 12, 1311.	1.4	2
206	Ability of cereal species for nitrogen uptake from cover crop rhizodeposits is not related to domestication level. <i>Journal of Plant Nutrition and Soil Science</i> , 2022, 185, 589-602.	1.1	0
207	The Effects of Cover Crops on Multiple Environmental Sustainability Indicatorsâ€œA Review. <i>Agronomy</i> , 2022, 12, 2011.	1.3	3

#	ARTICLE	IF	CITATIONS
208	Adoption of Climate Smart Agricultural Practices through Women Involvement in Decision Making Process: Exploring the Role of Empowerment and Innovativeness. <i>Agriculture (Switzerland)</i> , 2022, 12, 1161.	1.4	9
209	Alfalfa-grass mixtures reduce greenhouse gas emissions and net global warming potential while maintaining yield advantages over monocultures. <i>Science of the Total Environment</i> , 2022, 849, 157765.	3.9	14
210	The impact of cover crops on soil erosion in the US Midwest. <i>Journal of Environmental Management</i> , 2022, 324, 116168.	3.8	8
211	The role of cover crops in improving soil fertility and plant nutritional status in temperate climates. A review. <i>Agronomy for Sustainable Development</i> , 2022, 42, .	2.2	53
212	Explaining farmers' reluctance to adopt green manure cover crops planting for sustainable agriculture in Northwestern China <sup>1</sup> . <i>Journal of Integrative Agriculture</i> , 2022, , .	1.7	1
213	Mineral N suppressed priming effect while increasing microbial C use efficiency and N <sub>2</sub> O production in sandy soils under long-term conservation management. <i>Biology and Fertility of Soils</i> , 2022, 58, 903-915.	2.3	11
214	Knowledge Mapping of the Extant Literature on the Environmental Impacts of Using Cover Crops <sup>â€™</sup> A Scientometric Study. <i>Environments - MDPI</i> , 2022, 9, 120.	1.5	3
215	Process-based modeling of soil nitrous oxide emissions from United States corn fields under different management and climate scenarios coupled with evaluation using regional estimates. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	0
216	Climate Change and the Agro-food System. , 2022, , 105-113.		0
217	Plant Growth-Promoting Bacteria and Nitrogen Fixing Bacteria: Sustainability of Non-legume Crops. <i>Microorganisms for Sustainability</i> , 2022, , 233-275.	0.4	0
218	Associating farmers <sup>â€™</sup> perception of climate change and variability with historical climate data. <i>Journal of Agricultural Sciences (Belgrade)</i> , 2022, 67, 299-320.	0.1	1
219	Rediscovering wild food to diversify production across Australia's agricultural landscapes. <i>Frontiers in Sustainable Food Systems</i> , 0, 6, .	1.8	3
220	Weed Pressure, Nutrient Content, and Seed Yield in Field Grown Sulfonylurea-Resistant <i>Camelina sativa</i> and <i>Brassica napus</i> . <i>Agronomy</i> , 2022, 12, 2622.	1.3	1
221	Climate change impacts on European arable crop yields: Sensitivity to assumptions about rotations and residue management. <i>European Journal of Agronomy</i> , 2023, 142, 126670.	1.9	7
222	A sustainable way of increasing productivity of coconut cultivation using cover crops: A review. <i>Circular Agricultural Systems</i> , 2022, 2, 1-9.	0.5	2
223	Anaerobic Digestion of Cereal Rye Cover Crop. <i>Fermentation</i> , 2022, 8, 617.	1.4	4
224	Dynamic Linkages among Climate Change, Mechanization and Agricultural Carbon Emissions in Rural China. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 14508.	1.2	8
225	Host status of cover crops for root-lesion nematodes ( <i>Pratylenchus</i> spp.) associated with apple orchards in South Africa. <i>Journal of Plant Diseases and Protection</i> , 2023, 130, 105-113.	1.6	1

#	ARTICLE	IF	CITATIONS
226	Recent Rapid Increase of Cover Crop Adoption Across the U.S. Midwest Detected by Fusing Multi-Source Satellite Data. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	15
227	Native Rhizobia Improve Plant Growth, Fix N <sub>2</sub> , and Reduce Greenhouse Emissions of Sunnhemp More than Commercial Rhizobia Inoculants in Florida Citrus Orchards. <i>Plants</i> , 2022, 11, 3011.	1.6	1
228	Influence of cover crops at the four spheres: A review of ecosystem services, potential barriers, and future directions for North America. <i>Science of the Total Environment</i> , 2023, 858, 159990.	3.9	15
229	Soil Microbial Response to Cover Crop Termination Methods under Two Water Levels. <i>Agronomy</i> , 2022, 12, 3002.	1.3	2
230	Cover Crops for Sustainable Cropping Systems: A Review. <i>Agriculture (Switzerland)</i> , 2022, 12, 2076.	1.4	15
231	A critical analysis on multifaceted benefits of mixture of cover crops over pure stand. <i>Symbiosis</i> , 0, , .	1.2	1
232	Climate Change and Process-Based Soil Modeling. , 2022, , 73-106.		0
233	Testing cover crop species under three soil moisture conditions in a controlled greenhouse environment. <i>Canadian Journal of Plant Science</i> , 2023, 103, 175-183.	0.3	1
234	Soil Properties and Bacterial Communities Associated with the Rhizosphere of the Common Bean after Using <i>Brachiaria brizantha</i> as a Service Crop: A 10-Year Field Experiment. <i>Sustainability</i> , 2023, 15, 488.	1.6	3
235	Regenerative Agriculture—A Literature Review on the Practices and Mechanisms Used to Improve Soil Health. <i>Sustainability</i> , 2023, 15, 2338.	1.6	26
236	A synthesis of the effect of regenerative agriculture on soil carbon sequestration in Southeast Asian croplands. <i>Agriculture, Ecosystems and Environment</i> , 2023, 349, 108450.	2.5	6
237	Evaluation of long-term impact of cereal rye as a winter cover crop in Illinois. <i>Science of the Total Environment</i> , 2023, 877, 162956.	3.9	1
238	Climate plays a dominant role over land management in governing soil carbon dynamics in North Western Himalayas. <i>Journal of Environmental Management</i> , 2023, 338, 117740.	3.8	3
239	Agroecological practices in organic fennel cultivation to improve environmental sustainability. <i>Agroecology and Sustainable Food Systems</i> , 2023, 47, 668-686.	1.0	1
240	Conservation Agriculture and Soil Organic Carbon: Principles, Processes, Practices and Policy Options. <i>Soil Systems</i> , 2023, 7, 17.	1.0	27
241	Cover Crops Modulate the Response of Arbuscular Mycorrhizal Fungi to Water Supply: A Field Study in Corn. <i>Plants</i> , 2023, 12, 1015.	1.6	3
242	Cover Crop Identity Differently Affects Biomass Productivity as well as Nitrogen and Phosphorus Uptake of Maize ( <i>Zea mays</i> L.) in Relation to Soil Type. <i>Journal of Soil Science and Plant Nutrition</i> , 2023, 23, 2392-2403.	1.7	2
243	Estimating Net Carbon and Greenhouse Gas Balances of Potato and Pea Crops on a Conventional Farm in Western Canada. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2023, 128, .	1.3	1

#	ARTICLE	IF	CITATIONS
244	Overwintering Camelina and Canola/Rapeseed Show Promise for Improving Integrated Weed Management Approaches in the Upper Midwestern U.S.. <i>Plants</i> , 2023, 12, 1329.	1.6	0
245	Using machine learning with case studies to identify practices that reduce greenhouse gas emissions across Australian grain production regions. <i>Agronomy for Sustainable Development</i> , 2023, 43, .	2.2	0
246	US farmers' adaptations to climate change: a systematic review of the adaptation-focused studies in the US agriculture context. , 0, , .		2
279	Food, Water, and Climate. , 2023, , 545-569.		0
283	Harnessing Soil Potential: Innovation in Strategic Tillage and Management - New Perspectives. , 0, , .		0
287	Crop Management for Sustainable Wheat Production. , 2023, , 107-123.		0
300	Bridging the Gap Between Climate Change and Plant Biology. Impact of Meat Consumption on Health and Environmental Sustainability, 2023, , 173-193.	0.4	0
307	Diversified cropping systems with complementary root growth strategies improve crop adaptation to and remediation of hostile soils. <i>Plant and Soil</i> , 0, , .	1.8	1
310	Mitigating strategies for agricultural water pollution exacerbated by climate change. , 2024, , 173-195.		0