

Pete Smith

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

575 papers	47,280 citations	114 h-index	201 g-index
641 ext. papers	56,574 ext. citations	7.9 avg, IF	7.76 L-index

#	Paper	IF	Citations
575	Evaluation of the DNDC Model to Estimate Soil Parameters, Crop Yield and Nitrous Oxide Emissions for Alternative Long-Term Multi-Cropping Systems in the North China Plain. <i>Agronomy</i> , 2022 , 12, 109	3.6	0
574	Actions to halt biodiversity loss generally benefit the climate.. <i>Global Change Biology</i> , 2022 ,	11.4	7
573	Permanent grasslands in Europe: Land use change and intensification decrease their multifunctionality. <i>Agriculture, Ecosystems and Environment</i> , 2022 , 330, 107891	5.7	5
572	The biodiversity and ecosystem service contributions and trade-offs of forest restoration approaches.. <i>Science</i> , 2022 , 376, eabl4649	33.3	18
571	China's low-emission pathways toward climate-neutral livestock production for animal-derived foods.. <i>Innovation(China)</i> , 2022 , 3, 100220	17.8	2
570	An Integrated Framework to Assess Greenwashing. <i>Sustainability</i> , 2022 , 14, 4431	3.6	5
569	Does liming grasslands increase biomass productivity without causing detrimental impacts on net greenhouse gas emissions?. <i>Environmental Pollution</i> , 2022 , 300, 118999	9.3	
568	Can Regenerative Agriculture increase national soil carbon stocks? Simulated country-scale adoption of reduced tillage, cover cropping, and ley-arable integration using RothC.. <i>Science of the Total Environment</i> , 2022 , 825, 153955	10.2	4
567	Exploring the environmental impact of crop production in China using a comprehensive footprint approach.. <i>Science of the Total Environment</i> , 2022 , 153898	10.2	1
566	Agricultural systems 2022 , 375-402		
565	Modelling soil carbon stocks following reduced tillage intensity: A framework to estimate decomposition rate constant modifiers for RothC-26.3, demonstrated in north-west Europe. <i>Soil and Tillage Research</i> , 2022 , 222, 105428	6.5	0
564	How do we best synergise climate mitigation actions to co-benefit biodiversity?. <i>Global Change Biology</i> , 2021 ,	11.4	6
563	Elevated CO does not necessarily enhance greenhouse gas emissions from rice paddies.. <i>Science of the Total Environment</i> , 2021 , 810, 152363	10.2	0
562	Assessing the carbon capture potential of a reforestation project. <i>Scientific Reports</i> , 2021 , 11, 19907	4.9	2
561	Land-based measures to mitigate climate change: Potential and feasibility by country. <i>Global Change Biology</i> , 2021 , 27, 6025-6058	11.4	17
560	Food and feed trade has greatly impacted global land and nitrogen use efficiencies over 1961-2017. <i>Nature Food</i> , 2021 , 2, 780-791	14.4	1
559	Comparison of carbon footprint and net ecosystem carbon budget under organic material retention combined with reduced mineral fertilizer. <i>Carbon Balance and Management</i> , 2021 , 16, 7	3.6	1

558	1,135 ionomes reveal the global pattern of leaf and seed mineral nutrient and trace element diversity in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2021 , 106, 536-554	6.9	4
557	Technologies to deliver food and climate security through agriculture. <i>Nature Plants</i> , 2021 , 7, 250-255	11.5	16
556	Projecting the effect of crop yield increases, dietary change and different price scenarios on land use under two different state security regimes. <i>International Journal of Agricultural Sustainability</i> , 2021 , 19, 288-304	2.2	
555	Co-benefits and trade-offs of climate change mitigation actions and the Sustainable Development Goals. <i>Sustainable Production and Consumption</i> , 2021 , 26, 805-813	8.2	17
554	The impact of climate and societal change on food and nutrition security: A case study of Malawi. <i>Food and Energy Security</i> , 2021 , 10, e290	4.1	1
553	Is domestic agricultural production sufficient to meet national food nutrient needs in Brazil?. <i>PLoS ONE</i> , 2021 , 16, e0251778	3.7	1
552	The consolidated European synthesis of CH ₄ and N ₂ O emissions for the European Union and United Kingdom: 1990-2017. <i>Earth System Science Data</i> , 2021 , 13, 2307-2362	10.5	9
551	The consolidated European synthesis of CO ₂ emissions and removals for the European Union and United Kingdom: 1990-2018. <i>Earth System Science Data</i> , 2021 , 13, 2363-2406	10.5	8
550	Estimating ammonia emissions from cropland in China based on the establishment of agro-region-specific models. <i>Agricultural and Forest Meteorology</i> , 2021 , 303, 108373	5.8	7
549	Animal waste use and implications to agricultural greenhouse gas emissions in the United States. <i>Environmental Research Letters</i> , 2021 , 16, 064079	6.2	1
548	Bioenergy for climate change mitigation: Scale and sustainability. <i>GCB Bioenergy</i> , 2021 , 13, 1346-1371	5.6	6
547	Impacts of land use, population, and climate change on global food security. <i>Food and Energy Security</i> , 2021 , 10, e261	4.1	30
546	Ensemble modelling, uncertainty and robust predictions of organic carbon in long-term bare-fallow soils. <i>Global Change Biology</i> , 2021 , 27, 904-928	11.4	13
545	The Top 100 questions for the sustainable intensification of agriculture in India's rainfed drylands. <i>International Journal of Agricultural Sustainability</i> , 2021 , 19, 106-127	2.2	2
544	A systematic analysis and review of the impacts of afforestation on soil quality indicators as modified by climate zone, forest type and age. <i>Science of the Total Environment</i> , 2021 , 757, 143824	10.2	8
543	Delayed impact of natural climate solutions. <i>Global Change Biology</i> , 2021 , 27, 215-217	11.4	6
542	Articulating the effect of food systems innovation on the Sustainable Development Goals. <i>Lancet Planetary Health</i> , 2021 , 5, e50-e62	9.8	48
541	Climate warming from managed grasslands cancels the cooling effect of carbon sinks in sparsely grazed and natural grasslands. <i>Nature Communications</i> , 2021 , 12, 118	17.4	34

540	Getting the message right on nature-based solutions to climate change. <i>Global Change Biology</i> , 2021 , 27, 1518-1546	11.4	82
539	Greenhouse gas emissions from Mediterranean agriculture: Evidence of unbalanced research efforts and knowledge gaps. <i>Global Environmental Change</i> , 2021 , 69, 102319	10.1	7
538	Can cropland management practices lower net greenhouse emissions without compromising yield?. <i>Global Change Biology</i> , 2021 , 27, 4657-4670	11.4	5
537	An anticipatory life cycle assessment of the use of biochar from sugarcane residues as a greenhouse gas removal technology. <i>Journal of Cleaner Production</i> , 2021 , 312, 127764	10.3	8
536	Soil-derived Nature's Contributions to People and their contribution to the UN Sustainable Development Goals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200185	5.8	7
535	The role of soils in delivering Nature's Contributions to People. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200169	5.8	2
534	The role of soils in provision of energy. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20200180	5.8	3
533	The role of soil in regulation of climate. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021 , 376, 20210084	5.8	13
532	Emerging reporting and verification needs under the Paris Agreement: How can the research community effectively contribute?. <i>Environmental Science and Policy</i> , 2021 , 122, 116-126	6.2	6
531	Global greenhouse gas emissions from animal-based foods are twice those of plant-based foods. <i>Nature Food</i> , 2021 , 2, 724-732	14.4	39
530	Agricultural methane emissions and the potential for mitigation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200451	3	4
529	Climate change may interact with nitrogen fertilizer management leading to different ammonia loss in China's croplands. <i>Global Change Biology</i> , 2021 , 27, 6525-6535	11.4	4
528	Impacts of land use and salinization on soil inorganic and organic carbon in the middle-lower Yellow River Delta. <i>Pedosphere</i> , 2021 , 31, 839-848	5	4
527	Climate change and drinking water from Scottish peatlands: Where increasing DOC is an issue?. <i>Journal of Environmental Management</i> , 2021 , 300, 113688	7.9	0
526	Food and nutrition security under global trade: a relation-driven agent-based global trade model. <i>Royal Society Open Science</i> , 2021 , 8, 201587	3.3	5
525	Agricultural GHG emission and calorie intake nexus among different socioeconomic households of rural eastern India. <i>Environment, Development and Sustainability</i> , 2021 , 23, 11563-11582	4.5	0
524	Impacts of enhanced weathering on biomass production for negative emission technologies and soil hydrology. <i>Biogeosciences</i> , 2020 , 17, 2107-2133	4.6	5
523	Changes in soil organic carbon under perennial crops. <i>Global Change Biology</i> , 2020 , 26, 4158-4168	11.4	42

522	Innovation can accelerate the transition towards a sustainable food system. <i>Nature Food</i> , 2020 , 1, 266-272	11.4	121
521	Climate change: 'no get out of jail free card'. <i>Veterinary Record</i> , 2020 , 186, 71	0.9	3
520	The impact of interventions in the global land and agri-food sectors on Nature's Contributions to People and the UN Sustainable Development Goals. <i>Global Change Biology</i> , 2020 , 26, 4691-4721	11.4	38
519	The value of habitats of conservation importance to climate change mitigation in the UK. <i>Biological Conservation</i> , 2020 , 248, 108619	6.2	2
518	Forests and Decarbonization [Roles of Natural and Planted Forests. <i>Frontiers in Forests and Global Change</i> , 2020 , 3,	3.7	14
517	The role of soil carbon in natural climate solutions. <i>Nature Sustainability</i> , 2020 , 3, 391-398	22.1	130
516	Interacting with Members of the Public to Discuss the Impact of Food Choices on Climate Change-Experiences from Two UK Public Engagement Events. <i>Sustainability</i> , 2020 , 12, 2323	3.6	5
515	Global Research Alliance N O chamber methodology guidelines: Summary of modeling approaches. <i>Journal of Environmental Quality</i> , 2020 , 49, 1168-1185	3.4	12
514	Abundance changes of marsh plant species over 40 years are better explained by niche position water level than functional traits. <i>Ecological Indicators</i> , 2020 , 117, 106639	5.8	2
513	A deep dive into the modelling assumptions for biomass with carbon capture and storage (BECCS): a transparency exercise. <i>Environmental Research Letters</i> , 2020 , 15, 084008	6.2	11
512	PopFor: A new model for estimating poplar yields. <i>Biomass and Bioenergy</i> , 2020 , 134, 105470	5.3	3
511	Potential yield challenges to scale-up of zero budget natural farming. <i>Nature Sustainability</i> , 2020 , 3, 247-252	2.5	15
510	Climate drives global soil carbon sequestration and crop yield changes under conservation agriculture. <i>Global Change Biology</i> , 2020 , 26, 3325-3335	11.4	54
509	National mitigation potential from natural climate solutions in the tropics. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190126	5.8	77
508	Comparing the impact of future cropland expansion on global biodiversity and carbon storage across models and scenarios. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190189	5.8	8
507	Ensemble modelling of carbon fluxes in grasslands and croplands. <i>Field Crops Research</i> , 2020 , 252, 107795	15	17
506	Surveying topographical changes and climate variations to detect the urban heat island in the city of Málaga (Spain). <i>Cuadernos De Investigacion Geografica</i> , 2020 , 46, 521-543	2.5	6
505	A New Approach Using Modeling to Interpret Measured Changes in Soil Organic Carbon in Forests; The Case of a 200 Year Pine Chronosequence on a Podzolic Soil in Scotland. <i>Frontiers in Environmental Science</i> , 2020 , 8,	4.8	3

504	Soil carbon sequestration in grazing systems: managing expectations. <i>Climatic Change</i> , 2020 , 161, 385-394	15	15
503	Calibration and validation of the DNDC model to estimate nitrous oxide emissions and crop productivity for a summer maize-winter wheat double cropping system in Hebei, China. <i>Environmental Pollution</i> , 2020 , 262, 114199	9.3	11
502	The influence of nutrient management on soil organic carbon storage, crop production, and yield stability varies under different climates. <i>Journal of Cleaner Production</i> , 2020 , 268, 121922	10.3	14
501	How to measure, report and verify soil carbon change to realize the potential of soil carbon sequestration for atmospheric greenhouse gas removal. <i>Global Change Biology</i> , 2020 , 26, 219-241	11.4	142
500	Which practices co-deliver food security, climate change mitigation and adaptation, and combat land degradation and desertification?. <i>Global Change Biology</i> , 2020 , 26, 1532-1575	11.4	75
499	Dynamics of pedogenic carbonate in the cropland of the North China Plain: Influences of intensive cropping and salinization. <i>Agriculture, Ecosystems and Environment</i> , 2020 , 292, 106820	5.7	6
498	Multimodel Evaluation of Nitrous Oxide Emissions From an Intensively Managed Grassland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005261	3.7	8
497	Measurement of NO emissions over the whole year is necessary for estimating reliable emission factors. <i>Environmental Pollution</i> , 2020 , 259, 113864	9.3	17
496	Evaluating the Potential of Legumes to Mitigate N ₂ O Emissions From Permanent Grassland Using Process-Based Models. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2020GB006561	5.9	8
495	Not seeing the carbon for the trees? Why area-based targets for establishing new woodlands can limit or underplay their climate change mitigation benefits. <i>Land Use Policy</i> , 2020 , 97, 104690	5.6	8
494	Soil organic carbon and nitrogen pools are increased by mixed grass and legume cover crops in vineyard agroecosystems: Detecting short-term management effects using infrared spectroscopy. <i>Geoderma</i> , 2020 , 379, 114619	6.7	11
493	Robust paths to net greenhouse gas mitigation and negative emissions via advanced biofuels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 21968-21977	11.5	48
492	Modelling the potential for soil carbon sequestration using biochar from sugarcane residues in Brazil. <i>Scientific Reports</i> , 2020 , 10, 19479	4.9	22
491	Response to "The "4p1000" initiative: A new name should be adopted" by Baveye and White (2019). <i>Ambio</i> , 2020 , 49, 363-364	6.5	0
490	The 4p1000 initiative: Opportunities, limitations and challenges for implementing soil organic carbon sequestration as a sustainable development strategy. <i>Ambio</i> , 2020 , 49, 350-360	6.5	82
489	Characterising the biophysical, economic and social impacts of soil carbon sequestration as a greenhouse gas removal technology. <i>Global Change Biology</i> , 2020 , 26, 1085-1108	11.4	44
488	Towards more predictive and interdisciplinary climate change ecosystem experiments. <i>Nature Climate Change</i> , 2019 , 9, 809-816	21.4	20
487	Mitigation potential and environmental impact of centralized versus distributed BECCS with domestic biomass production in Great Britain. <i>GCB Bioenergy</i> , 2019 , 11, 1234-1252	5.6	14

486	Potential carbon loss from Scottish peatlands under climate change. <i>Regional Environmental Change</i> , 2019 , 19, 2101-2111	4.3	11
485	Data for long-term marginal abatement cost curves of non-CO greenhouse gases. <i>Data in Brief</i> , 2019 , 25, 104334	1.2	2
484	The paleoclimatic footprint in the soil carbon stock of the Tibetan permafrost region. <i>Nature Communications</i> , 2019 , 10, 4195	17.4	16
483	Using agent-based modelling to simulate social-ecological systems across scales. <i>GeoInformatica</i> , 2019 , 23, 269-298	2.5	24
482	Ecosystem services in different agro-climatic zones in eastern India: impact of land use and land cover change. <i>Environmental Monitoring and Assessment</i> , 2019 , 191, 98	3.1	14
481	Modelling greenhouse gas emissions and mitigation potentials in fertilized paddy rice fields in Bangladesh. <i>Geoderma</i> , 2019 , 341, 206-215	6.7	15
480	Nitrogen Surplus Benchmarks for Controlling N Pollution in the Main Cropping Systems of China. <i>Environmental Science & Technology</i> , 2019 , 53, 6678-6687	10.3	58
479	A global, empirical, harmonised dataset of soil organic carbon changes under perennial crops. <i>Scientific Data</i> , 2019 , 6, 57	8.2	5
478	Weakened growth of cropland-N O emissions in China associated with nationwide policy interventions. <i>Global Change Biology</i> , 2019 , 25, 3706-3719	11.4	22
477	The relationship between forest cover and diet quality: a case study of rural southern Malawi. <i>Food Security</i> , 2019 , 11, 635-650	6.7	9
476	Assessing the potential of soil carbonation and enhanced weathering through Life Cycle Assessment: A case study for Sao Paulo State, Brazil. <i>Journal of Cleaner Production</i> , 2019 , 233, 468-481	10.3	22
475	Long-term marginal abatement cost curves of non-CO2 greenhouse gases. <i>Environmental Science and Policy</i> , 2019 , 99, 136-149	6.2	24
474	Land-Management Options for Greenhouse Gas Removal and Their Impacts on Ecosystem Services and the Sustainable Development Goals. <i>Annual Review of Environment and Resources</i> , 2019 , 44, 255-286	17.2	95
473	Invited review: Intergovernmental Panel on Climate Change, agriculture, and food-A case of shifting cultivation and history. <i>Global Change Biology</i> , 2019 , 25, 2518-2529	11.4	35
472	A Review of Criticisms of Integrated Assessment Models and Proposed Approaches to Address These, through the Lens of BECCS. <i>Energies</i> , 2019 , 12, 1747	3.1	59
471	"More crop per drop": Exploring India's cereal water use since 2005. <i>Science of the Total Environment</i> , 2019 , 673, 207-217	10.2	27
470	Natural climate solutions are not enough. <i>Science</i> , 2019 , 363, 933-934	33.3	56
469	A critical review of the impacts of cover crops on nitrogen leaching, net greenhouse gas balance and crop productivity. <i>Global Change Biology</i> , 2019 , 25, 2530-2543	11.4	134

468	Modelling biological N fixation and grass-legume dynamics with process-based biogeochemical models of varying complexity. <i>European Journal of Agronomy</i> , 2019 , 106, 58-66	5	9
467	Environmental impacts of dietary shifts in India: A modelling study using nationally-representative data. <i>Environment International</i> , 2019 , 126, 207-215	12.9	28
466	The vulnerabilities of agricultural land and food production to future water scarcity. <i>Global Environmental Change</i> , 2019 , 58, 101944	10.1	60
465	Deriving Emission Factors and Estimating Direct Nitrous Oxide Emissions for Crop Cultivation in China. <i>Environmental Science & Technology</i> , 2019 , 53, 10246-10257	10.3	24
464	Long-term organic farming on a citrus plantation results in soil organic carbon recovery. <i>Cuadernos De Investigacion Geografica</i> , 2019 , 45, 271	2.5	50
463	Climate Change as a Driving Force on Urban Energy Consumption Patterns. <i>Advances in Public Policy and Administration</i> , 2019 , 547-563	0.2	
462	Assessment of ecosystem services of rice farms in eastern India. <i>Ecological Processes</i> , 2019 , 8,	3.6	15
461	The technological and economic prospects for CO utilization and removal. <i>Nature</i> , 2019 , 575, 87-97	50.4	479
460	Contribution of the land sector to a 1.5 °C world. <i>Nature Climate Change</i> , 2019 , 9, 817-828	21.4	150
459	Using plant, microbe, and soil fauna traits to improve the predictive power of biogeochemical models. <i>Methods in Ecology and Evolution</i> , 2019 , 10, 146-157	7.7	28
458	Is the expansion of sugarcane over pasturelands a sustainable strategy for Brazil's bioenergy industry?. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 102, 346-355	16.2	29
457	The increase of rainfall erosivity and initial soil erosion processes due to rainfall acidification. <i>Hydrological Processes</i> , 2019 , 33, 261-270	3.3	12
456	Evaluation of four modelling approaches to estimate nitrous oxide emissions in China's cropland. <i>Science of the Total Environment</i> , 2019 , 652, 1279-1289	10.2	14
455	Cost-effective opportunities for climate change mitigation in Indian agriculture. <i>Science of the Total Environment</i> , 2019 , 655, 1342-1354	10.2	60
454	Matching policy and science: Rationale for the 4 per 1000 - soils for food security and climate initiative. <i>Soil and Tillage Research</i> , 2019 , 188, 3-15	6.5	131
453	Managing the global land resource. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	19
452	Perennial-GHG: A new generic allometric model to estimate biomass accumulation and greenhouse gas emissions in perennial food and bioenergy crops. <i>Environmental Modelling and Software</i> , 2018 , 102, 292-305	5.2	13
451	Bioenergy in the IPCC Assessments. <i>GCB Bioenergy</i> , 2018 , 10, 428-431	5.6	12

450	Extent to which pH and topographic factors control soil organic carbon level in dry farming cropland soils of the mountainous region of Southwest China. <i>Catena</i> , 2018 , 163, 204-209	5.8	27
449	Cleaning up nitrogen pollution may reduce future carbon sinks. <i>Global Environmental Change</i> , 2018 , 48, 56-66	10.1	29
448	Impacts on terrestrial biodiversity of moving from a 2°C to a 1.5°C target. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	19
447	Consensus, uncertainties and challenges for perennial bioenergy crops and land use. <i>GCB Bioenergy</i> , 2018 , 10, 150-164	5.6	58
446	Assessing uncertainties in crop and pasture ensemble model simulations of productivity and N O emissions. <i>Global Change Biology</i> , 2018 , 24, e603-e616	11.4	74
445	Carbon uptake by European agricultural land is variable, and in many regions could be increased: Evidence from remote sensing, yield statistics and models of potential productivity. <i>Science of the Total Environment</i> , 2018 , 643, 902-911	10.2	6
444	Negative emissionsPart 1: Research landscape and synthesis. <i>Environmental Research Letters</i> , 2018 , 13, 063001	6.2	283
443	Carbon emission avoidance and capture by producing in-reactor microbial biomass based food, feed and slow release fertilizer: Potentials and limitations. <i>Science of the Total Environment</i> , 2018 , 644, 1525-1530	10.2	22
442	Negative emissionsPart 2: Costs, potentials and side effects. <i>Environmental Research Letters</i> , 2018 , 13, 063002	6.2	431
441	Greenhouse gas emissions and water footprints of typical dietary patterns in India. <i>Science of the Total Environment</i> , 2018 , 643, 1411-1418	10.2	40
440	Abundant pre-industrial carbon detected in Canadian Arctic headwaters: implications for the permafrost carbon feedback. <i>Environmental Research Letters</i> , 2018 , 13, 034024	6.2	22
439	Moving beyond calories and protein: Micronutrient assessment of UK diets and land use. <i>Global Environmental Change</i> , 2018 , 52, 108-116	10.1	9
438	Soil organic carbon sequestration and mitigation potential in a rice cropland in Bangladesh: A modelling approach. <i>Field Crops Research</i> , 2018 , 226, 16-27	5.5	8
437	Chinese cropping systems are a net source of greenhouse gases despite soil carbon sequestration. <i>Global Change Biology</i> , 2018 , 24, 5590-5606	11.4	40
436	The potential to reduce GHG emissions in egg production using a GHG calculator: A Cool Farm Tool case study. <i>Journal of Cleaner Production</i> , 2018 , 202, 1068-1076	10.3	8
435	Global assessment of agricultural system redesign for sustainable intensification. <i>Nature Sustainability</i> , 2018 , 1, 441-446	22.1	250
434	Simulation of Soil Organic Carbon Effects on Long-Term Winter Wheat () Production Under Varying Fertilizer Inputs. <i>Frontiers in Plant Science</i> , 2018 , 9, 1158	6.2	7
433	The potential for implementation of Negative Emission Technologies in Scotland. <i>International Journal of Greenhouse Gas Control</i> , 2018 , 76, 85-91	4.2	25

432	The use of biogeochemical models to evaluate mitigation of greenhouse gas emissions from managed grasslands. <i>Science of the Total Environment</i> , 2018 , 642, 292-306	10.2	28
431	Projecting Soil C Under Future Climate and Land-Use Scenarios (Modeling) 2018 , 281-309		4
430	Methane and Global Environmental Change. <i>Annual Review of Environment and Resources</i> , 2018 , 43, 165-192	19.2	22
429	Climate Change as a Driving Force on Urban Energy Consumption Patterns 2018 , 7815-7830		
428	Deforestation may increase soil carbon but it is unlikely to be continuous or unlimited. <i>Global Change Biology</i> , 2018 , 24, 557-558	11.4	4
427	The changing faces of soil organic matter research. <i>European Journal of Soil Science</i> , 2018 , 69, 23-30	3.4	29
426	Modelling daily to seasonal carbon fluxes and annual net ecosystem carbon balance of cereal grain-cropland using DailyDayCent: A model data comparison. <i>Agriculture, Ecosystems and Environment</i> , 2018 , 252, 159-177	5.7	5
425	Critical review of the impacts of grazing intensity on soil organic carbon storage and other soil quality indicators in extensively managed grasslands. <i>Agriculture, Ecosystems and Environment</i> , 2018 , 253, 62-81	5.7	181
424	Soil erosion is unlikely to drive a future carbon sink in Europe. <i>Science Advances</i> , 2018 , 4, eaau3523	14.3	42
423	The carbon sequestration potential of terrestrial ecosystems. <i>Journal of Soils and Water Conservation</i> , 2018 , 73, 145A-152A	2.2	81
422	Soil Organic Carbon and Nitrogen Feedbacks on Crop Yields under Climate Change. <i>Agricultural and Environmental Letters</i> , 2018 , 3, 180026	1.5	20
421	Global projections of future cropland expansion to 2050 and direct impacts on biodiversity and carbon storage. <i>Global Change Biology</i> , 2018 , 24, 5895-5908	11.4	65
420	Re-assessing nitrous oxide emissions from croplands across Mainland China. <i>Agriculture, Ecosystems and Environment</i> , 2018 , 268, 70-78	5.7	15
419	The environmental costs and benefits of high-yield farming. <i>Nature Sustainability</i> , 2018 , 1, 477-485	22.1	130
418	Model Based Regional Estimates of Soil Organic Carbon Sequestration and Greenhouse Gas Mitigation Potentials from Rice Croplands in Bangladesh. <i>Land</i> , 2018 , 7, 82	3.5	11
417	Negative emissionsPart 3: Innovation and upscaling. <i>Environmental Research Letters</i> , 2018 , 13, 063003	6.2	140
416	Environmental impacts of current and future diets in India. <i>Lancet Planetary Health, The</i> , 2018 , 2, S28	9.8	2
415	Nitrogen application rates need to be reduced for half of the rice paddy fields in China. <i>Agriculture, Ecosystems and Environment</i> , 2018 , 265, 8-14	5.7	36

414	Bioenergy production and sustainable development: science base for policymaking remains limited. <i>GCB Bioenergy</i> , 2017 , 9, 541-556	5.6	53
413	High-resolution spatial modelling of greenhouse gas emissions from land-use change to energy crops in the United Kingdom. <i>GCB Bioenergy</i> , 2017 , 9, 627-644	5.6	31
412	Protein futures for Western Europe: potential land use and climate impacts in 2050. <i>Regional Environmental Change</i> , 2017 , 17, 367-377	4.3	42
411	Impact analysis of climate data aggregation at different spatial scales on simulated net primary productivity for croplands. <i>European Journal of Agronomy</i> , 2017 , 88, 41-52	5	20
410	Greenhouse gas emissions from agricultural food production to supply Indian diets: Implications for climate change mitigation. <i>Agriculture, Ecosystems and Environment</i> , 2017 , 237, 234-241	5.7	109
409	Mitigation and quantification of greenhouse gas emissions in Mediterranean cropping systems. <i>Agriculture, Ecosystems and Environment</i> , 2017 , 238, 1-4	5.7	5
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