

David Styles

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

3,799
citations

126858

33
h-index

149623

56
g-index

90
all docs

90
docs citations

90
times ranked

4189
citing authors

#	ARTICLE	IF	CITATIONS
1	Construction and demolition waste best management practice in Europe. <i>Resources, Conservation and Recycling</i> , 2018, 136, 166-178.	5.3	467
2	Environmental performance comparison of bioplastics and petrochemical plastics: A review of life cycle assessment (LCA) methodological decisions. <i>Resources, Conservation and Recycling</i> , 2021, 168, 105451.	5.3	169
3	Bioenergy from "surplus" land: environmental and socio-economic implications. <i>BioRisk</i> , 0, 7, 5-50.	0.2	165
4	Using microalgae in the circular economy to valorise anaerobic digestate: challenges and opportunities. <i>Bioresource Technology</i> , 2018, 267, 732-742.	4.8	159
5	Energy crops in Ireland: An economic comparison of willow and <i>Miscanthus</i> production with conventional farming systems. <i>Biomass and Bioenergy</i> , 2008, 32, 407-421.	2.9	135
6	Energy crops in Ireland: Quantifying the potential life-cycle greenhouse gas reductions of energy-crop electricity. <i>Biomass and Bioenergy</i> , 2007, 31, 759-772.	2.9	119
7	Energy recovery in the water industry using micro-hydropower: an opportunity to improve sustainability. <i>Water Policy</i> , 2014, 16, 168-183.	0.7	103
8	Hemp: A more sustainable annual energy crop for climate and energy policy. <i>Energy Policy</i> , 2013, 58, 152-162.	4.2	100
9	Environmental balance of the UK biogas sector: An evaluation by consequential life cycle assessment. <i>Science of the Total Environment</i> , 2016, 560-561, 241-253.	3.9	100
10	Phosphorus sorption, supply potential and availability in soils with contrasting parent material and soil chemical properties. <i>European Journal of Soil Science</i> , 2015, 66, 792-801.	1.8	96
11	Recycling of European plastic is a pathway for plastic debris in the ocean. <i>Environment International</i> , 2020, 142, 105893.	4.8	83
12	Consequential life cycle assessment of biogas, biofuel and biomass energy options within an arable crop rotation. <i>GCB Bioenergy</i> , 2015, 7, 1305-1320.	2.5	70
13	Life Cycle Assessment of Biofertilizer Production and Use Compared with Conventional Liquid Digestate Management. <i>Environmental Science & Technology</i> , 2018, 52, 7468-7476.	4.6	68
14	Importance of spatial and temporal patterns for assessment of risk of diffuse nutrient emissions to surface waters. <i>Journal of Hydrology</i> , 2005, 304, 183-192.	2.3	65
15	Water management in the European hospitality sector: Best practice, performance benchmarks and improvement potential. <i>Tourism Management</i> , 2015, 46, 187-202.	5.8	65
16	Commercial afforestation can deliver effective climate change mitigation under multiple decarbonisation pathways. <i>Nature Communications</i> , 2021, 12, 3831.	5.8	63
17	Environmental improvement of product supply chains: A review of European retailers'™ performance. <i>Resources, Conservation and Recycling</i> , 2012, 65, 57-78.	5.3	57
18	Life cycle environmental balance and greenhouse gas mitigation potential of micro-hydropower energy recovery in the water industry. <i>Journal of Cleaner Production</i> , 2015, 99, 152-159.	4.6	54

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19	Cattle feed or bioenergy? Consequential life cycle assessment of biogas feedstock options on dairy farms. <i>GCB Bioenergy</i> , 2015, 7, 1034-1049.	2.5	54
20	The Impact of Pay-As-You-Throw Schemes on Municipal Solid Waste Management: The Exemplar Case of the County of Aschaffenburg, Germany. <i>Resources</i> , 2017, 6, 8.	1.6	54
21	Closing nutrient loops through decentralized anaerobic digestion of organic residues in agricultural regions: A multi-dimensional sustainability assessment. <i>Resources, Conservation and Recycling</i> , 2018, 136, 110-117.	5.3	52
22	Climate mitigation by dairy intensification depends on intensive use of spared grassland. <i>Global Change Biology</i> , 2018, 24, 681-693.	4.2	50
23	Adapting Stand-Alone Renewable Energy Technologies for the Circular Economy through Eco-Design and Recycling. <i>Journal of Industrial Ecology</i> , 2019, 23, 133-140.	2.8	49
24	Laboratory drying of organic-matter rich soils: Phosphorus solubility effects, influence of soil characteristics, and consequences for environmental interpretation. <i>Geoderma</i> , 2006, 136, 120-135.	2.3	46
25	Comparing the environmental efficiency of milk and beef production through life cycle assessment of interconnected cattle systems. <i>Journal of Cleaner Production</i> , 2020, 277, 124108.	4.6	43
26	Case study evidence that direct regulation remains the main driver of industrial pollution avoidance and may benefit operational efficiency. <i>Journal of Cleaner Production</i> , 2012, 21, 1-10.	4.6	41
27	Substitution of beef with pea protein reduces the environmental footprint of meat balls whilst supporting health and climate stabilisation goals. <i>Journal of Cleaner Production</i> , 2021, 297, 126447.	4.6	41
28	Evidence on the environmental impacts of farm land abandonment in high altitude/mountain regions: a systematic map. <i>Environmental Evidence</i> , 2014, 3, .	1.1	40
29	Identified best environmental management practices to improve the energy performance of the retail trade sector in Europe. <i>Energy Policy</i> , 2013, 63, 982-994.	4.2	39
30	Metrics and methods for characterizing dairy farm intensification using farm survey data. <i>PLoS ONE</i> , 2018, 13, e0195286.	1.1	39
31	Economic and environmental efficiency of UK and Ireland water companies: Influence of exogenous factors and rurality. <i>Journal of Environmental Management</i> , 2019, 241, 363-373.	3.8	39
32	Current and future financial competitiveness of electricity and heat from energy crops: A case study from Ireland. <i>Energy Policy</i> , 2007, 35, 4355-4367.	4.2	36
33	Key performance indicators to explain energy & economic efficiency across water utilities, and identifying suitable proxies. <i>Journal of Environmental Management</i> , 2020, 269, 110810.	3.8	36
34	Environmental impacts of farm land abandonment in high altitude/mountain regions: a systematic map of the evidence. <i>Environmental Evidence</i> , 2013, 2, .	1.1	34
35	Climate regulation, energy provisioning and water purification: Quantifying ecosystem service delivery of bioenergy willow grown on riparian buffer zones using life cycle assessment. <i>Ambio</i> , 2016, 45, 872-884.	2.8	34
36	Substituting wheat with chickpea flour in pasta production delivers more nutrition at a lower environmental cost. <i>Sustainable Production and Consumption</i> , 2020, 24, 26-38.	5.7	34

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37	Environmental performance of bioplastic packaging on fresh food produce: A consequential life cycle assessment. <i>Journal of Cleaner Production</i> , 2021, 317, 128377.	4.6	34
38	The sustainability of rice-crayfish coculture systems: a mini review of evidence from Jiangnan plain in China. <i>Journal of the Science of Food and Agriculture</i> , 2021, 101, 3843-3853.	1.7	31
39	Environmental improvement of product supply chains: Proposed best practice techniques, quantitative indicators and benchmarks of excellence for retailers. <i>Journal of Environmental Management</i> , 2012, 110, 135-150.	3.8	29
40	Rice-crayfish coculture delivers more nutrition at a lower environmental cost. <i>Sustainable Production and Consumption</i> , 2022, 29, 14-24.	5.7	29
41	Improving livestock production efficiencies presents a major opportunity to reduce sectoral greenhouse gas emissions. <i>Agricultural Systems</i> , 2016, 147, 123-131.	3.2	28
42	A quantitative integrated assessment of pollution prevention achieved by Integrated Pollution Prevention Control licensing. <i>Environment International</i> , 2009, 35, 1177-1187.	4.8	27
43	Assessing the impact of within crop heterogeneity (‘‘patchiness’’™) in young <i>Miscanthus giganteus</i> fields on economic feasibility and soil carbon sequestration. <i>GCB Bioenergy</i> , 2014, 6, 566-576.	2.5	27
44	A proposed framework for determining the environmental impact of replacing agricultural grassland with <i>Miscanthus</i> in Ireland. <i>GCB Bioenergy</i> , 2011, 3, 247-263.	2.5	26
45	<i>Miscanthus</i> and willow heat production: An effective land-use strategy for greenhouse gas emission avoidance in Ireland?. <i>Energy Policy</i> , 2008, 36, 97-107.	4.2	25
46	Current and Future Environmental Balance of Small-Scale Run-of-River Hydropower. <i>Environmental Science & Technology</i> , 2015, 49, 6344-6351.	4.6	24
47	Just the tonic! Legume biorefining for alcohol has the potential to reduce Europe's protein deficit and mitigate climate change. <i>Environment International</i> , 2019, 130, 104870.	4.8	24
48	Greenhouse Gas Mitigation of Rural Household Biogas Systems in China: A Life Cycle Assessment. <i>Energies</i> , 2017, 10, 239.	1.6	23
49	Region-specific emission factors for Brazil increase the estimate of nitrous oxide emissions from nitrogen fertiliser application by 21%. <i>Atmospheric Environment</i> , 2020, 230, 117506.	1.9	23
50	Responsible agriculture must adapt to the wetland character of mid-latitude peatlands. <i>Global Change Biology</i> , 2022, 28, 3795-3811.	4.2	23
51	Meteorological and management influences on seasonal variation in phosphorus fractions extracted from soils in western Ireland. <i>Geoderma</i> , 2007, 142, 152-164.	2.3	22
52	Life-cycle environmental and economic impacts of energy-crop fuel-chains: an integrated assessment of potential GHG avoidance in Ireland. <i>Environmental Science and Policy</i> , 2008, 11, 294-306.	2.4	22
53	A life cycle assessment of the construction phase of eleven micro-hydropower installations in the UK. <i>Journal of Cleaner Production</i> , 2019, 218, 1-9.	4.6	22
54	Aligning efficiency benchmarking with sustainable outcomes in the United Kingdom water sector. <i>Journal of Environmental Management</i> , 2021, 287, 112317.	3.8	22

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55	Comparative life cycle assessment of plant and beef-based patties, including carbon opportunity costs. <i>Sustainable Production and Consumption</i> , 2021, 28, 936-952.	5.7	21
56	Effects of high-sugar grasses and improved manure management on the environmental footprint of milk production at the farm level. <i>Journal of Cleaner Production</i> , 2018, 202, 1241-1252.	4.6	19
57	Crafty Marketing: An Evaluation of Distinctive Criteria for "Craft" Beer. <i>Food Reviews International</i> , 2022, 38, 913-929.	4.3	18
58	Afforestation: Replacing livestock emissions with carbon sequestration. <i>Journal of Environmental Management</i> , 2020, 264, 110523.	3.8	18
59	Challenges to implementing greenhouse gas mitigation measures in livestock agriculture: A conceptual framework for policymakers. <i>Environmental Science and Policy</i> , 2019, 92, 107-115.	2.4	17
60	Maintaining production while reducing local and global environmental emissions in dairy farming. <i>Journal of Environmental Management</i> , 2020, 272, 111054.	3.8	17
61	A Multifunctional Solution for Wicked Problems: Value-Chain Wide Facilitation of Legumes Cultivated at Bioregional Scales Is Necessary to Address the Climate-Biodiversity-Nutrition Nexus. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	17
62	Measuring the environmental performance of IPPC industry: I. Devising a quantitative science-based and policy-weighted Environmental Emissions Index. <i>Environmental Science and Policy</i> , 2009, 12, 226-242.	2.4	16
63	Packaging choice and coordinated distribution logistics to reduce the environmental footprint of small-scale beer value chains. <i>Journal of Environmental Management</i> , 2022, 307, 114591.	3.8	16
64	Land-use change and valorisation of feedstock side-streams determine the climate mitigation potential of bioplastics. <i>Resources, Conservation and Recycling</i> , 2022, 180, 106185.	5.3	16
65	Linking soil phosphorus to water quality in the Mask catchment of western Ireland through the analysis of moist soil samples. <i>Agriculture, Ecosystems and Environment</i> , 2006, 112, 300-312.	2.5	15
66	Using a Strategic Environmental Assessment framework to quantify the environmental impact of bioenergy plans. <i>GCB Bioenergy</i> , 2012, 4, 311-329.	2.5	15
67	Key traits for ruminant livestock across diverse production systems in the context of climate change: perspectives from a global platform of research farms. <i>Reproduction, Fertility and Development</i> , 2021, 33, 1.	0.1	15
68	Making green technology greener: Achieving a balance between carbon and resource savings through ecodesign in hydropower systems. <i>Resources, Conservation and Recycling</i> , 2015, 105, 11-17.	5.3	14
69	Thirsty work: Assessing the environmental footprint of craft beer. <i>Sustainable Production and Consumption</i> , 2021, 27, 242-253.	5.7	14
70	Legume-Modified Rotations Deliver Nutrition With Lower Environmental Impact. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	14
71	Pitfalls in international benchmarking of energy intensity across wastewater treatment utilities. <i>Journal of Environmental Management</i> , 2021, 300, 113613.	3.8	14
72	Emissions down the drain: Balancing life cycle energy and greenhouse gas savings with resource use for heat recovery from kitchen drains. <i>Journal of Environmental Management</i> , 2020, 271, 110988.	3.8	12

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73	Defining national biogenic methane targets: Implications for national food production & climate neutrality objectives. <i>Journal of Environmental Management</i> , 2021, 295, 113058.	3.8	12
74	Greenhouse gas mitigation and rural electricity generation by a novel two-stroke biogas engine. <i>Journal of Cleaner Production</i> , 2021, 280, 124473.	4.6	11
75	Does Circular Reuse of Chickpea Cooking Water to Produce Vegan Mayonnaise Reduce Environmental Impact Compared with Egg Mayonnaise?. <i>Sustainability</i> , 2021, 13, 4726.	1.6	11
76	Circular use of feed by-products from alcohol production mitigates water scarcity. <i>Sustainable Production and Consumption</i> , 2022, 30, 158-170.	5.7	11
77	Measuring the environmental performance of IPPC industry: II. Applying the Environmental Emissions Index to quantify environmental performance trends from routinely reported data. <i>Environmental Science and Policy</i> , 2009, 12, 243-256.	2.4	10
78	Climate mitigation efficacy of anaerobic digestion in a decarbonising economy. <i>Journal of Cleaner Production</i> , 2022, 338, 130441.	4.6	10
79	Diversification not specialization reduces global and local environmental burdens from livestock production. <i>Environment International</i> , 2019, 132, 104837.	4.8	8
80	Marginal Abatement Cost Curves for Latin American dairy production: A Costa Rica case study. <i>Journal of Cleaner Production</i> , 2021, 311, 127556.	4.6	8
81	GOBLIN version 1.0: a land balance model to identify national agriculture and land use pathways to climate neutrality via backcasting. <i>Geoscientific Model Development</i> , 2022, 15, 2239-2264.	1.3	8
82	Inventory compilation for renewable energy systems: the pitfalls of materiality thresholds and priority impact categories using hydropower case studies. <i>International Journal of Life Cycle Assessment</i> , 2015, 20, 1701-1707.	2.2	6
83	Consequential life cycle assessment of miscanthus livestock bedding, diverting straw to bioelectricity generation. <i>GCB Bioenergy</i> , 2020, 12, 39-53.	2.5	5
84	Introducing a Calculator for the Environmental and Financial Potential of Drain Water Heat Recovery in Commercial Kitchens. <i>Water (Switzerland)</i> , 2021, 13, 3486.	1.2	5
85	Data for life cycle assessment of legume biorefining for alcohol. <i>Data in Brief</i> , 2019, 25, 104242.	0.5	4
86	Implementation solutions for greenhouse gas mitigation measures in livestock agriculture: A framework for coherent strategy. <i>Environmental Science and Policy</i> , 2019, 101, 232-244.	2.4	3
87	Optimized ratoon rice system to sustain cleaner food production in Jiangnan Plain, China: a comprehensive energy assessment. <i>Environmental Science and Pollution Research</i> , 2021, , 1.	2.7	3
88	Improving nutrient and economic efficiency of dairy intensification depends on intensive use of scattered cropland. <i>Sustainable Production and Consumption</i> , 2022, 30, 454-466.	5.7	2