

Adrian Leip

List of Publications by Citations

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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.

102
papers

5,450
citations

36
h-index

72
g-index

107
ext. papers

6,759
ext. citations

7.7
avg, IF

5.91
L-index

#	Paper	IF	Citations
102	Too much of a good thing. <i>Nature</i> , 2011 , 472, 159-61	50.4	583
101	Food choices, health and environment: Effects of cutting Europe's meat and dairy intake. <i>Global Environmental Change</i> , 2014 , 26, 196-205	10.1	430
100	Impacts of European livestock production: nitrogen, sulphur, phosphorus and greenhouse gas emissions, land-use, water eutrophication and biodiversity. <i>Environmental Research Letters</i> , 2015 , 10, 115004	6.2	222
99	Food systems are responsible for a third of global anthropogenic GHG emissions. <i>Nature Food</i> , 2021 , 2, 198-209	14.4	211
98	Recycling of livestock manure in a whole-farm perspective. <i>Livestock Science</i> , 2007 , 112, 180-191	1.7	177
97	Factors controlling regional differences in forest soil emission of nitrogen oxides (NO and N ₂ O). <i>Biogeosciences</i> , 2006 , 3, 651-661	4.6	173
96	The European carbon balance. Part 2: croplands. <i>Global Change Biology</i> , 2010 , 16, 1409-1428	11.4	165
95	Nitrogen footprints: past, present and future. <i>Environmental Research Letters</i> , 2014 , 9, 115003	6.2	161
94	Greenhouse gas emissions from the EU livestock sector: A life cycle assessment carried out with the CAPRI model. <i>Agriculture, Ecosystems and Environment</i> , 2012 , 149, 124-134	5.7	147
93	Inventories of N ₂ O and NO emissions from European forest soils. <i>Biogeosciences</i> , 2005 , 2, 353-375	4.6	147
92	Environmental footprint family to address local to planetary sustainability and deliver on the SDGs. <i>Science of the Total Environment</i> , 2019 , 693, 133642	10.2	144
91	Livestock greenhouse gas emissions and mitigation potential in Europe. <i>Global Change Biology</i> , 2013 , 19, 3-18	11.4	140
90	The European carbon balance. Part 4: integration of carbon and other trace-gas fluxes. <i>Global Change Biology</i> , 2010 , 16, 1451-1469	11.4	138
89	Linking an economic model for European agriculture with a mechanistic model to estimate nitrogen and carbon losses from arable soils in Europe. <i>Biogeosciences</i> , 2008 , 5, 73-94	4.6	132
88	A new European plant-specific emission inventory of biogenic volatile organic compounds for use in atmospheric transport models. <i>Biogeosciences</i> , 2009 , 6, 1059-1087	4.6	111
87	Lost water and nitrogen resources due to EU consumer food waste. <i>Environmental Research Letters</i> , 2015 , 10, 084008	6.2	108
86	Farm, land, and soil nitrogen budgets for agriculture in Europe calculated with CAPRI. <i>Environmental Pollution</i> , 2011 , 159, 3243-53	9.3	105

85	The nitrogen footprint of food products in the European Union. <i>Journal of Agricultural Science</i> , 2014 , 152, 20-33	1	104
84	The potential of future foods for sustainable and healthy diets. <i>Nature Sustainability</i> , 2018 , 1, 782-789	22.1	103
83	Environmental impact food labels combining carbon, nitrogen, and water footprints. <i>Food Policy</i> , 2016 , 61, 213-223	5	102
82	Nitrogen and biofuels; an overview of the current state of knowledge. <i>Nutrient Cycling in Agroecosystems</i> , 2010 , 86, 211-223	3.3	93
81	Fertilizer nitrogen recovery efficiencies in crop production systems of China with and without consideration of the residual effect of nitrogen. <i>Environmental Research Letters</i> , 2014 , 9, 095002	6.2	85
80	Livestock and greenhouse gas emissions: The importance of getting the numbers right. <i>Animal Feed Science and Technology</i> , 2011 , 166-167, 779-782	3	79
79	A comparison of eight metamodelling techniques for the simulation of N ₂ O fluxes and N leaching from corn crops. <i>Environmental Modelling and Software</i> , 2012 , 34, 51-66	5.2	77
78	Comparison of land nitrogen budgets for European agriculture by various modeling approaches. <i>Environmental Pollution</i> , 2011 , 159, 3254-68	9.3	77
77	Modelling of land cover and agricultural change in Europe: Combining the CLUE and CAPRI-Spat approaches. <i>Agriculture, Ecosystems and Environment</i> , 2011 , 142, 40-50	5.7	65
76	Mitigation potential of soil carbon management overestimated by neglecting N ₂ O emissions. <i>Nature Climate Change</i> , 2018 , 8, 219-223	21.4	64
75	Major challenges of integrating agriculture into climate change mitigation policy frameworks. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2018 , 23, 451-468	3.9	64
74	Developing spatially stratified N ₂ O emission factors for Europe. <i>Environmental Pollution</i> , 2011 , 159, 3223-32	9.3	57
73	Integrating nitrogen fluxes at the European scale 345-376		54
72	Nitrogen emissions along global livestock supply chains. <i>Nature Food</i> , 2020 , 1, 437-446	14.4	51
71	Nitrogen pollution policy beyond the farm. <i>Nature Food</i> , 2020 , 1, 27-32	14.4	51
70	The carbon balance of European croplands: A cross-site comparison of simulation models. <i>Agriculture, Ecosystems and Environment</i> , 2010 , 139, 419-453	5.7	47
69	Nitrogen flows from European regional watersheds to coastal marine waters 271-297		45
68	Development of marginal emission factors for N losses from agricultural soils with the DNDC-CAPRI meta-model. <i>Agriculture, Ecosystems and Environment</i> , 2009 , 133, 267-279	5.7	40

67	A new method to study simultaneous methane oxidation and methane production in soils. <i>Global Biogeochemical Cycles</i> , 1998 , 12, 587-594	5.9	40
66	Toward a nitrogen footprint calculator for Tanzania. <i>Environmental Research Letters</i> , 2017 , 12, 034016	6.2	32
65	Nitrogen-neutrality: a step towards sustainability. <i>Environmental Research Letters</i> , 2014 , 9, 115001	6.2	32
64	Quantitative quality assessment of the greenhouse gas inventory for agriculture in Europe. <i>Climatic Change</i> , 2010 , 103, 245-261	4.5	31
63	Assessing Sustainable Food and Nutrition Security of the EU Food System: An Integrated Approach. <i>Sustainability</i> , 2018 , 10, 4271	3.6	29
62	Estimation of N ₂ O fluxes at the regional scale: data, models, challenges. <i>Current Opinion in Environmental Sustainability</i> , 2011 , 3, 328-338	7.2	28
61	Multicompartmental fate of persistent substances. Comparison of predictions from multi-media box models and a multicompartment chemistry-atmospheric transport model. <i>Environmental Science and Pollution Research</i> , 2007 , 14, 153-65	5.1	28
60	Indicators for persistence and long-range transport potential as derived from multicompartment chemistry-transport modelling. <i>Environmental Pollution</i> , 2004 , 128, 205-21	9.3	28
59	Metrics, models and foresight for European sustainable food and nutrition security: The vision of the SUSFANS project. <i>Agricultural Systems</i> , 2018 , 163, 45-57	6.1	27
58	Soil Organic Carbon Thresholds and Nitrogen Management in Tropical Agroecosystems: Concepts and Prospects. <i>Journal of Sustainable Development</i> , 2013 , 6,	1.3	26
57	Modeled Changes in Potential Grassland Productivity and in Grass-Fed Ruminant Livestock Density in Europe over 1961-2010. <i>PLoS ONE</i> , 2015 , 10, e0127554	3.7	26
56	Spatial patterns of nitrogen runoff from Chinese paddy fields. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 231, 246-254	5.7	23
55	Impact of 40 years poplar cultivation on soil carbon stocks and greenhouse gas fluxes		23
54	Shared Socio-economic Pathways for European agriculture and food systems: The Eur-Agri-SSPs. <i>Global Environmental Change</i> , 2020 , 65, 102159	10.1	23
53	Nitrogen in current European policies		22
52	Estimating the gross nitrogen budget under soil nitrogen stock changes: A case study for Turkey. <i>Agriculture, Ecosystems and Environment</i> , 2015 , 205, 48-56	5.7	21
51	Sustainable food system policies need to address environmental pressures and impacts: The example of water use and water stress. <i>Science of the Total Environment</i> , 2020 , 730, 139151	10.2	21
50	European anthropogenic AFOLU greenhouse gas emissions: a review and benchmark data. <i>Earth System Science Data</i> , 2020 , 12, 961-1001	10.5	20

49	A model for simulating the timelines of field operations at a European scale for use in complex dynamic models. <i>Biogeosciences</i> , 2012 , 9, 4487-4496	4.6	19
48	The value of manure - Manure as co-product in life cycle assessment. <i>Journal of Environmental Management</i> , 2019 , 241, 293-304	7.9	18
47	Nitrogen futures in the shared socioeconomic pathways 4. <i>Global Environmental Change</i> , 2020 , 61, 102029	10.1	18
46	Environmental change impacts on the C- and N-cycle of European forests: a model comparison study. <i>Biogeosciences</i> , 2013 , 10, 1751-1773	4.6	17
45	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
44	A complete rethink is needed on how greenhouse gas emissions are quantified for national reporting. <i>Atmospheric Environment</i> , 2018 , 174, 237-240	5.3	17
43	Geographical variation in terrestrial nitrogen budgets across Europe	317-344	15
42	Demand-side solutions to climate change mitigation consistent with high levels of well-being. <i>Nature Climate Change</i> ,	21.4	15
41	Forest conversion to poplar plantation in a Lombardy floodplain (Italy): effects on soil organic carbon stock. <i>Biogeosciences</i> , 2014 , 11, 6483-6493	4.6	14
40	Assessing the impact of Cross Compliance measures on nitrogen fluxes from European farmlands with DNDC-EUROPE. <i>Environmental Pollution</i> , 2011 , 159, 3233-42	9.3	14
39	Measures to increase the nitrogen use efficiency of European agricultural production. <i>Global Food Security</i> , 2020 , 26, 100381	8.3	14
38	A protocol to develop Shared Socio-economic Pathways for European agriculture. <i>Journal of Environmental Management</i> , 2019 , 252, 109701	7.9	13
37	Complementing the topsoil information of the Land Use/Land Cover Area Frame Survey (LUCAS) with modelled N ₂ O emissions. <i>PLoS ONE</i> , 2017 , 12, e0176111	3.7	12
36	Integrated management for sustainable cropping systems: Looking beyond the greenhouse balance at the field scale. <i>Global Change Biology</i> , 2020 , 26, 2584	11.4	12
35	Interactions between reactive nitrogen and the Canadian landscape: A budget approach. <i>Global Biogeochemical Cycles</i> , 2014 , 28, 1343-1357	5.9	11
34	Quantifying anthropogenic mobilization, flows (in product systems) and emissions of fixed nitrogen in process-based environmental life cycle assessment: rationale, methods and application to a life cycle inventory. <i>International Journal of Life Cycle Assessment</i> , 2014 , 19, 166-173	4.6	11
33	A European perspective of innovations towards mitigation of nitrogen-related greenhouse gases. <i>Current Opinion in Environmental Sustainability</i> , 2014 , 9-10, 37-45	7.2	10
32	Development and testing of a European Union-wide farm-level carbon calculator. <i>Integrated Environmental Assessment and Management</i> , 2015 , 11, 404-16	2.5	10

31	The quality of European (EU-15) greenhouse gas inventories from agriculture. <i>Journal of Integrative Environmental Sciences</i> , 2005 , 2, 177-192		10
30	Formation of nitrate and sulfate in the plume of Berlin. <i>Environmental Science and Pollution Research</i> , 2005 , 12, 213-20	5.1	10
29	Demand-Side Food Policies for Public and Planetary Health. <i>Sustainability</i> , 2020 , 12, 5924	3.6	9
28	Implications of a food system approach for policy agenda-setting design. <i>Global Food Security</i> , 2021 , 28, 100451	8.3	9
27	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
26	A Sustainability Compass for policy navigation to sustainable food systems. <i>Global Food Security</i> , 2021 , 29, 100546	8.3	9
25	How EU policies could reduce nutrient pollution in European inland and coastal waters. <i>Global Environmental Change</i> , 2021 , 69, 102281	10.1	9
24	Future scenarios of nitrogen in Europe		8
23	Linking an economic model for European agriculture with a mechanistic model to estimate nitrogen losses from cropland soil in Europe		8
22	Transformation of Aerosol Chemical Properties due to Transport Over a City. <i>Journal of Atmospheric Chemistry</i> , 2005 , 51, 95-117	3.2	7
21	Paying the price for environmentally sustainable and healthy EU diets. <i>Global Food Security</i> , 2021 , 28, 100437	8.3	7
20	A grassland strategy for farming systems in Europe to mitigate GHG emissions: An integrated spatially differentiated modelling approach. <i>Land Use Policy</i> , 2016 , 58, 318-334	5.6	6
19	Technical summary		6
18	Multi-scale land-use disaggregation modelling: Concept and application to EU countries. <i>Environmental Modelling and Software</i> , 2016 , 82, 183-217	5.2	5
17	The European carbon balance. Part 4: integration of carbon and other trace-gas fluxes. <i>Global Change Biology</i> , 2009 , 16, 2399-2399	11.4	5
16	Environmental change impacts on the C- and N-cycle of European forests: a model comparison study		5
15	Applying the Human Appropriation of Net Primary Production framework to map provisioning ecosystem services and their relation to ecosystem functioning across the European Union. <i>Ecosystem Services</i> , 2021 , 51, 101344	6.1	4
14	Unveiling the potential for an efficient use of nitrogen along the food supply and consumption chain. <i>Global Food Security</i> , 2020 , 25, 100368	8.3	3

13	Biomass for transport, heat and electricity: scientific challenges. <i>Management of Environmental Quality</i> , 2010 , 21, 523-547	3.6	3
12	Quantitative quality assessment of the greenhouse gas inventory for agriculture in Europe 2010 , 245-261		3
11	Phosphorous stock changes in agricultural soils: a case study in Turkey. <i>Nutrient Cycling in Agroecosystems</i> , 2016 , 105, 51-59	3.3	3
10	The role of nitrogen in achieving sustainable food systems for healthy diets. <i>Global Food Security</i> , 2021 , 28, 100408	8.3	3
9	Greenhouse gas mitigation technologies in agriculture: Regional circumstances and interactions determine cost-effectiveness. <i>Journal of Cleaner Production</i> , 2021 , 317, 128406	10.3	3
8	Assessing the Environmental Impact of Agriculture in Europe: The Indicator Database for European Agriculture. <i>ACS Symposium Series</i> , 2011 , 371-385	0.4	2
7	Isotope fractionation in methane reactions studied by gas chromatography and liquid scintillation. <i>Applied Radiation and Isotopes</i> , 1997 , 48, 501-509	1.7	2
6	Bestimmung des Ferntransports von persistenten organischen Spurenstoffen und der Umweltexposition mittels Modelluntersuchungen. <i>Environmental Sciences Europe</i> , 2006 , 18, 254-261		2
5	Forest conversion to poplar plantation in a Lombardy floodplain (Italy): effects on soil organic carbon stock		2
4	Pre-informed Consumers on a Pre-adjusted Menu Had Smaller Nitrogen Footprints During the N2013 Conference, Kampala, Than Those on a Conventional Menu 2020 , 561-582		1
3	Agri-Environmental Nitrogen Indicators for EU27 2011 , 109-123		1
2	Climate goals require food systems emission inventories. <i>Nature Food</i> , 2022 , 3, 1-1	14.4	0
1	Nitrogen Footprints 2019 , 370-382		