

# Asae Umr Sas

## 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.

94  
papers

3,009  
citations

35  
h-index

48  
g-index

95  
ext. papers

3,489  
ext. citations

5.5  
avg, IF

5.32  
L-index

#	Paper	IF	Citations
94	Management, regulation and environmental impacts of nitrogen fertilization in northwestern Europe under the Nitrates Directive; a benchmark study. <i>Biogeosciences</i> , <b>2012</b> , 9, 5143-5160	4.6	138
93	Transit times: The link between hydrology and water quality at the catchment scale. <i>Wiley Interdisciplinary Reviews: Water</i> , <b>2016</b> , 3, 629-657	5.7	130
92	Soil quality in Life Cycle Assessment: Towards development of an indicator. <i>Ecological Indicators</i> , <b>2012</b> , 18, 434-442	5.8	90
91	Greenhouse gas mitigation in animal production: towards an integrated life cycle sustainability assessment. <i>Current Opinion in Environmental Sustainability</i> , <b>2011</b> , 3, 423-431	7.2	81
90	Life Cycle Assessment for environmentally sustainable aquaculture management: a case study of combined aquaculture systems for carp and tilapia. <i>Journal of Cleaner Production</i> , <b>2013</b> , 57, 249-256	10.3	78
89	Solute transport dynamics in small, shallow groundwater-dominated agricultural catchments: insights from a high-frequency, multisolute 10 yr-long monitoring study. <i>Hydrology and Earth System Sciences</i> , <b>2013</b> , 17, 1379-1391	5.5	68
88	Evaluation of the environmental implications of the incorporation of feed-use amino acids in pig production using Life Cycle Assessment. <i>Livestock Science</i> , <b>2014</b> , 161, 158-175	1.7	64
87	Environmental impacts of plant-based salmonid diets at feed and farm scales. <i>Aquaculture</i> , <b>2011</b> , 321, 61-70	4.4	63
86	Effects of type of ration and allocation methods on the environmental impacts of beef-production systems. <i>Livestock Science</i> , <b>2012</b> , 145, 239-251	1.7	59
85	Linking microbial community to soil water-stable aggregation during crop residue decomposition. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 50, 126-133	7.5	59
84	Farming system design for innovative crop-livestock integration in Europe. <i>Animal</i> , <b>2014</b> , 8, 1204-17	3.1	59
83	Spatial differentiation in Life Cycle Assessment LCA applied to an agricultural territory: current practices and method development. <i>Journal of Cleaner Production</i> , <b>2016</b> , 112, 2472-2484	10.3	58
82	Environmental impacts of French and Brazilian broiler chicken production scenarios: an LCA approach. <i>Journal of Environmental Management</i> , <b>2014</b> , 133, 222-31	7.9	58
81	LCA and emergy accounting of aquaculture systems: towards ecological intensification. <i>Journal of Environmental Management</i> , <b>2013</b> , 121, 96-109	7.9	58
80	Best available technology for European livestock farms: Availability, effectiveness and uptake. <i>Journal of Environmental Management</i> , <b>2016</b> , 166, 1-11	7.9	56
79	Enteric methane production and greenhouse gases balance of diets differing in concentrate in the fattening phase of a beef production system. <i>Journal of Animal Science</i> , <b>2011</b> , 89, 2518-28	0.7	52
78	Water use by livestock: A global perspective for a regional issue?. <i>Animal Frontiers</i> , <b>2012</b> , 2, 9-16	5.5	51

77	Evaluation of the environmental implications of the incorporation of feed-use amino acids in the manufacturing of pig and broiler feeds using Life Cycle Assessment. <i>Animal</i> , <b>2011</b> , 5, 1972-83	3.1	46
76	Influence of emission-factor uncertainty and farm-characteristic variability in LCA estimates of environmental impacts of French dairy farms. <i>Journal of Cleaner Production</i> , <b>2014</b> , 81, 150-157	10.3	44
75	Effect of dairy production system, breed and co-product handling methods on environmental impacts at farm level. <i>Journal of Environmental Management</i> , <b>2013</b> , 120, 127-37	7.9	41
74	The Use of Reference Values in Indicator-Based Methods for the Environmental Assessment of Agricultural Systems. <i>Sustainability</i> , <b>2011</b> , 3, 424-442	3.6	41
73	Exploring variability in methods and data sensitivity in carbon footprints of feed ingredients. <i>International Journal of Life Cycle Assessment</i> , <b>2013</b> , 18, 768-782	4.6	40
72	Influence of water temperature on the economic value of growth rate in fish farming: The case of sea bass ( <i>Dicentrarchus labrax</i> ) cage farming in the Mediterranean. <i>Aquaculture</i> , <b>2016</b> , 462, 47-55	4.4	40
71	Environmental impacts of dairy system intensification: the functional unit matters!. <i>Journal of Cleaner Production</i> , <b>2017</b> , 140, 445-454	10.3	39
70	SyNE: An improved indicator to assess nitrogen efficiency of farming systems. <i>Agricultural Systems</i> , <b>2014</b> , 127, 41-52	6.1	39
69	Evaluation of SPOT imagery for the estimation of grassland biomass. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2015</b> , 38, 72-77	7.3	39
68	A guide for choosing the most appropriate method for multi-criteria assessment of agricultural systems according to decision-makers' expectations. <i>Agricultural Systems</i> , <b>2013</b> , 115, 51-62	6.1	39
67	Life cycle assessment (LCA) of two rearing techniques of sea bass ( <i>Dicentrarchus labrax</i> ). <i>Aquacultural Engineering</i> , <b>2012</b> , 46, 1-9	3	38
66	Using environmental constraints to formulate low-impact poultry feeds. <i>Journal of Cleaner Production</i> , <b>2012</b> , 28, 215-224	10.3	37
65	Environmental assessment of seabass ( <i>Dicentrarchus labrax</i> ) and seabream ( <i>Sparus aurata</i> ) farming from a life cycle perspective: A case study of a Tunisian aquaculture farm. <i>Aquaculture</i> , <b>2017</b> , 471, 204-212	4.4	36
64	Comparative environmental performance of artisanal and commercial feed use in Peruvian freshwater aquaculture. <i>Aquaculture</i> , <b>2015</b> , 435, 52-66	4.4	35
63	Environmental impacts of farms integrating aquaculture and agriculture in Cameroon. <i>Journal of Cleaner Production</i> , <b>2012</b> , 28, 208-214	10.3	35
62	Life cycle assessment applied to pea-wheat intercrops: A new method for handling the impacts of co-products. <i>Journal of Cleaner Production</i> , <b>2014</b> , 73, 80-87	10.3	35
61	The use of benthic invertebrate community and water quality analyses to assess ecological consequences of fish farm effluents in rivers. <i>Ecological Indicators</i> , <b>2012</b> , 23, 356-365	5.8	35
60	Reconciling technical, economic and environmental efficiency of farming systems in vulnerable areas. <i>Agriculture, Ecosystems and Environment</i> , <b>2012</b> , 147, 89-99	5.7	35

59	Earthworm effects on gaseous emissions during vermifiltration of pig fresh slurry. <i>Bioresource Technology</i> , <b>2011</b> , 102, 3679-86	11	35
58	Influence of rearing conditions and manure management practices on ammonia and greenhouse gas emissions from poultry houses. <i>World's Poultry Science Journal</i> , <b>2011</b> , 67, 441-456	3	35
57	ECOALIM: A Dataset of Environmental Impacts of Feed Ingredients Used in French Animal Production. <i>PLoS ONE</i> , <b>2016</b> , 11, e0167343	3.7	35
56	Environmental impacts of genetic improvement of growth rate and feed conversion ratio in fish farming under rearing density and nitrogen output limitations. <i>Journal of Cleaner Production</i> , <b>2016</b> , 116, 100-109	10.3	34
55	Exploring sustainable farming scenarios at a regional scale: an application to dairy farms in Brittany. <i>Journal of Cleaner Production</i> , <b>2012</b> , 28, 160-167	10.3	34
54	Differential and successive effects of residue quality and soil mineral N on water-stable aggregation during crop residue decomposition. <i>Soil Biology and Biochemistry</i> , <b>2011</b> , 43, 1955-1960	7.5	34
53	Soil C and N models that integrate microbial diversity. <i>Environmental Chemistry Letters</i> , <b>2016</b> , 14, 331-344	4.3	32
52	Methods to simplify diet and food life cycle inventories: Accuracy versus data-collection resources. <i>Journal of Cleaner Production</i> , <b>2017</b> , 140, 410-420	10.3	31
51	Infrared photoacoustic spectroscopy in animal houses: Effect of non-compensated interferences on ammonia, nitrous oxide and methane air concentrations. <i>Biosystems Engineering</i> , <b>2013</b> , 114, 318-326	4.8	28
50	Economic value as a functional unit for environmental labelling of food and other consumer products. <i>Journal of Cleaner Production</i> , <b>2015</b> , 94, 394-397	10.3	28
49	Environmental assessment of trout farming in France by life cycle assessment: using bootstrapped principal component analysis to better define system classification. <i>Journal of Cleaner Production</i> , <b>2015</b> , 87, 87-95	10.3	27
48	Modelling heat and mass transfer of a broiler house using computational fluid dynamics. <i>Biosystems Engineering</i> , <b>2015</b> , 136, 25-38	4.8	26
47	Modelling nitrogen and carbon interactions in composting of animal manure in naturally aerated piles. <i>Waste Management</i> , <b>2015</b> , 46, 588-98	8.6	26
46	Stockless organic farming: strengths and weaknesses evidenced by a multicriteria sustainability assessment model. <i>Agronomy for Sustainable Development</i> , <b>2013</b> , 33, 593-608	6.8	23
45	Development of a soil compaction indicator in life cycle assessment. <i>International Journal of Life Cycle Assessment</i> , <b>2013</b> , 18, 1316-1324	4.6	23
44	CASIMODN: An agro-hydrological distributed model of catchment-scale nitrogen dynamics integrating farming system decisions. <i>Agricultural Systems</i> , <b>2013</b> , 118, 41-51	6.1	23
43	Sensitivity Analysis of Environmental Process Modeling in a Life Cycle Context: A Case Study of Hemp Crop Production. <i>Journal of Industrial Ecology</i> , <b>2015</b> , 19, 978-993	7.2	23
42	Earthworm ( <i>Eisenia fetida</i> ) behavioral and respiration responses to sublethal mercury concentrations in an artificial soil substrate. <i>Applied Soil Ecology</i> , <b>2016</b> , 104, 48-53	5	22

41	Environmental performance of brackish water polyculture system from a life cycle perspective: A Filipino case study. <i>Aquaculture</i> , <b>2015</b> , 435, 217-227	4.4	21
40	Data strategy for environmental assessment of agricultural regions via LCA: case study of a French catchment. <i>International Journal of Life Cycle Assessment</i> , <b>2016</b> , 21, 476-491	4.6	20
39	Modelling the interplay between nitrogen cycling processes and mitigation options in farming catchments. <i>Journal of Agricultural Science</i> , <b>2015</b> , 153, 959-974	1	19
38	AGRIBALYSE <sup>®</sup> , the French LCI Database for agricultural products: high quality data for producers and environmental labelling. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , <b>2015</b> , 22, D104	1.5	19
37	'I am an Intensive Guy': The Possibility and Conditions of Reconciliation Through the Ecological Intensification Framework. <i>Environmental Management</i> , <b>2015</b> , 56, 1184-98	3.1	18
36	Comparing environmental impacts of native and introduced freshwater prawn farming in Brazil and the influence of better effluent management using LCA. <i>Aquaculture</i> , <b>2015</b> , 444, 151-159	4.4	18
35	Consequential LCA of switching from maize silage-based to grass-based dairy systems. <i>International Journal of Life Cycle Assessment</i> , <b>2013</b> , 18, 1470-1484	4.6	18
34	Accounting for farm diversity in Life Cycle Assessment studies [The case of poultry production in a tropical island. <i>Journal of Cleaner Production</i> , <b>2013</b> , 57, 280-292	10.3	18
33	Modeling the potential benefits of catch-crop introduction in fodder crop rotations in a Western Europe landscape. <i>Science of the Total Environment</i> , <b>2012</b> , 437, 276-84	10.2	18
32	Environmental Life Cycle Assessment of Diets with Improved Omega-3 Fatty Acid Profiles. <i>PLoS ONE</i> , <b>2016</b> , 11, e0160397	3.7	18
31	Indicators to evaluate agricultural nitrogen efficiency of the 27 member states of the European Union. <i>Ecological Indicators</i> , <b>2016</b> , 66, 612-622	5.8	18
30	High-resolution mapping of soil phosphorus concentration in agricultural landscapes with readily available or detailed survey data. <i>European Journal of Soil Science</i> , <b>2017</b> , 68, 281-294	3.4	17
29	Emergy evaluation of contrasting dairy systems at multiple levels. <i>Journal of Environmental Management</i> , <b>2013</b> , 129, 44-53	7.9	17
28	Relative nitrogen efficiency, a new indicator to assess crop livestock farming systems. <i>Agronomy for Sustainable Development</i> , <b>2015</b> , 35, 857-868	6.8	16
27	Antioxidant and behavior responses of earthworms after introduction to a simulated vermifilter environment. <i>Ecological Engineering</i> , <b>2015</b> , 81, 218-227	3.9	16
26	Effect of production quotas on economic and environmental values of growth rate and feed efficiency in sea cage fish farming. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173131	3.7	15
25	Agricultural practices in grasslands detected by spatial remote sensing. <i>Environmental Monitoring and Assessment</i> , <b>2014</b> , 186, 8249-65	3.1	15
24	Contrasting the spatial management of nitrogen and phosphorus for improved water quality: Modelling studies in New Zealand and France. <i>European Journal of Agronomy</i> , <b>2014</b> , 57, 52-61	5	15

23	Life Cycle Assessment as applied to environmental choices regarding farmed or wild-caught fish.. <i>CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources</i> , <b>2013</b> , 8,	3.2	15
22	Assessing aquaculture sustainability: a comparative methodology. <i>International Journal of Sustainable Development and World Ecology</i> , <b>2014</b> , 21, 503-511	3.8	14
21	Product carbon footprinting in Thailand: A step towards sustainable consumption and production?. <i>Environmental Development</i> , <b>2012</b> , 3, 100-108	4.1	14
20	Microbial Diversity Indexes Can Explain Soil Carbon Dynamics as a Function of Carbon Source. <i>PLoS ONE</i> , <b>2016</b> , 11, e0161251	3.7	14
19	Five propositions to harmonize environmental footprints of food and beverages. <i>Journal of Cleaner Production</i> , <b>2017</b> , 153, 457-464	10.3	13
18	Improved Environmental Life Cycle Assessment of Crop Production at the Catchment Scale via a Process-Based Nitrogen Simulation Model. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 10790-6	10.3	13
17	Computational modelling of thermal and humidity gradients for a naturally ventilated poultry house. <i>Biosystems Engineering</i> , <b>2016</b> , 151, 273-285	4.8	13
16	Construction cost of plant compounds provides a physical relationship for co-product allocation in life cycle assessment. <i>International Journal of Life Cycle Assessment</i> , <b>2015</b> , 20, 777-784	4.6	12
15	A new method of biophysical allocation in LCA of livestock co-products: modeling metabolic energy requirements of body-tissue growth. <i>International Journal of Life Cycle Assessment</i> , <b>2017</b> , 22, 883-895	4.6	12
14	Characterisation of waste output from flow-through trout farms in France: comparison of nutrient mass-balance modelling and hydrological methods. <i>Aquatic Living Resources</i> , <b>2011</b> , 24, 63-70	1.5	12
13	Effect of farming practices for greenhouse gas mitigation and subsequent alternative land use on environmental impacts of beef cattle production systems. <i>Animal</i> , <b>2013</b> , 7, 860-9	3.1	10
12	Changes during winter in water-stable aggregation due to crop residue quality. <i>Soil Use and Management</i> , <b>2012</b> , 28, 590-595	3.1	9
11	LCA Food 2012: Towards sustainable food systems. <i>International Journal of Life Cycle Assessment</i> , <b>2013</b> , 18, 1180-1183	4.6	8
10	Life cycle assessment of three bull-fattening systems: effect of impact categories on ranking. <i>Journal of Agricultural Science</i> , <b>2012</b> , 150, 755-763	1	7
9	Estimating environmental impacts of agricultural systems with LCA using data from the French Farm Accountancy Data Network (FADN). <i>Cahiers Agricultures</i> , <b>2012</b> , 21, 248-257	0.9	7
8	Prediction of nutrient flows with potential impacts on the environment in a rabbit farm: a modelling approach. <i>Animal Production Science</i> , <b>2014</b> , 54, 2042	1.4	6
7	Design of an integrated piggery system with recycled water, biomass production and water purification by vermiculture, macrophyte ponds and constructed wetlands. <i>Water Science and Technology</i> , <b>2011</b> , 63, 1314-20	2.2	6
6	Greenhouse gas emissions from the grassy outdoor run of organic broilers. <i>Biogeosciences</i> , <b>2012</b> , 9, 1493-1508	4.15	5

5	Using reference values to assess environmental sustainability of dairy farms. <i>Renewable Agriculture and Food Systems</i> , <b>2012</b> , 27, 217-227	1.8	5
4	Sustainability of fish pond culture in rural farming systems of Central and Western Cameroon. <i>International Journal of Agricultural Sustainability</i> , <b>2017</b> , 15, 208-222	2.2	4
3	Influence of season and outdoor run characteristics on excretion behaviour of organic broilers and gaseous emissions. <i>Biosystems Engineering</i> , <b>2015</b> , 139, 35-47	4.8	3
2	Responses of the earthworm <i>Eisenia andrei</i> exposed to sublethal aluminium levels in an artificial soil substrate. <i>Chemistry and Ecology</i> , <b>2014</b> , 30, 611-621	2.3	3
1	Freins et motivations à la diversification des cultures dans les exploitations agricoles : Étude de cas en Vendée. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , <b>2013</b> , 20, D405	1.5	2