Rosalie van Zelm

List of Publications by Year
in descending order

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66	4,680	147801	98798
papers	citations	31 h-index	67 g-index

70	70	70	4700
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ReCiPe2016: a harmonised life cycle impact assessment method at midpoint and endpoint level. International Journal of Life Cycle Assessment, 2017, 22, 138-147.	4.7	1,905
2	Review of methods addressing freshwater use in life cycle inventory and impact assessment. International Journal of Life Cycle Assessment, 2013, 18, 707-721.	4.7	268
3	European characterization factors for human health damage of PM10 and ozone in life cycle impact assessment. Atmospheric Environment, 2008, 42, 441-453.	4.1	230
4	Toward Meaningful End Points of Biodiversity in Life Cycle Assessment. Environmental Science & Technology, 2011, 45, 70-79.	10.0	173
5	USES-LCA 2.0â€"a global nested multi-media fate, exposure, and effects model. International Journal of Life Cycle Assessment, 2009, 14, 282-284.	4.7	131
6	Regionalized life cycle impact assessment of air pollution on the global scale: Damage to human health and vegetation. Atmospheric Environment, 2016, 134, 129-137.	4.1	89
7	LCâ€IMPACT: A regionalized life cycle damage assessment method. Journal of Industrial Ecology, 2020, 24, 1201-1219.	5.5	80
8	Valuing the human health damage caused by the fraud of Volkswagen. Environmental Pollution, 2016, 212, 121-127.	7.5	78
9	Understanding farm-level differences in environmental impact and eco-efficiency: The case of rice production in Iran. Sustainable Production and Consumption, 2021, 27, 1021-1029.	11.0	76
10	Characterization factors for terrestrial acidification at the global scale: A systematic analysis of spatial variability and uncertainty. Science of the Total Environment, 2014, 500-501, 270-276.	8.0	73
11	Time Horizon Dependent Characterization Factors for Acidification in Life-Cycle Assessment Based on Forest Plant Species Occurrence in Europe. Environmental Science & Technology, 2007, 41, 922-927.	10.0	69
12	Trade and the role of non-food commodities for global eutrophication. Nature Sustainability, 2018, 1, 314-321.	23.7	68
13	Assessing the Importance of Spatial Variability versus Model Choices in Life Cycle Impact Assessment: The Case of Freshwater Eutrophication in Europe. Environmental Science & Technology, 2013, 47, 13565-13570.	10.0	67
14	A taste of the new ReCiPe for life cycle assessment: consequences of the updated impact assessment method on food product LCAs. International Journal of Life Cycle Assessment, 2020, 25, 2315-2324.	4.7	64
15	Global assessment of the effects of terrestrial acidification on plant species richness. Environmental Pollution, 2013, 174, 10-15.	7.5	62
16	Global guidance on environmental life cycle impact assessment indicators: findings of the scoping phase. International Journal of Life Cycle Assessment, 2014, 19, 962-967.	4.7	62
17	The Glasgow consensus on the delineation between pesticide emission inventory and impact assessment for LCA. International Journal of Life Cycle Assessment, 2015, 20, 765-776.	4.7	62
18	Implementing Groundwater Extraction in Life Cycle Impact Assessment: Characterization Factors Based on Plant Species Richness for the Netherlands. Environmental Science & Technology, 2011, 45, 629-635.	10.0	61

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19	Value Choices in Life Cycle Impact Assessment of Stressors Causing Human Health Damage. Journal of Industrial Ecology, 2011, 15, 796-815.	5.5	46
20	Combined ecological risks of nitrogen and phosphorus in European freshwaters. Environmental Pollution, 2015, 200, 85-92.	7.5	46
21	Uncertainty in msPAF-Based Ecotoxicological Effect Factors for Freshwater Ecosystems in Life Cycle Impact Assessment. Integrated Environmental Assessment and Management, 2007, 3, 203.	2.9	42
22	Species richnessâ€“phosphorus relationships for lakes and streams worldwide. Global Ecology and Biogeography, 2013, 22, 1304-1314.	5.8	42
23	Transformation Products in the Life Cycle Impact Assessment of Chemicals. Environmental Science & Technology, 2010, 44, 1004-1009.	10.0	40
24	Global spatially explicit CO2 emission metrics for forest bioenergy. Scientific Reports, 2016, 6, 20186.	3.3	39
25	Evaluation of SimpleTreat 4.0: Simulations of pharmaceutical removal in wastewater treatment plant facilities. Chemosphere, 2017, 168, 870-876.	8.2	38
26	Variability in the carbon footprint of open-field tomato production in Iran - A case study of Alborz and East-Azerbaijan provinces. Journal of Cleaner Production, 2017, 142, 1510-1517.	9.3	36
27	Pesticide ecotoxicological effect factors and their uncertainties for freshwater ecosystems. International Journal of Life Cycle Assessment, 2009, 14, 43-51.	4.7	35
28	Bridging the gap between life cycle inventory and impact assessment for toxicological assessments of pesticides used in crop production. Chemosphere, 2014, 100, 175-181.	8.2	34
29	Quantifying the Trade-off between Parameter and Model Structure Uncertainty in Life Cycle Impact Assessment. Environmental Science & Technology, 2013, 47, 9274-9280.	10.0	33
30	Biodiversity impacts from water consumption on a global scale for use in life cycle assessment. International Journal of Life Cycle Assessment, 2017, 22, 1247-1256.	4.7	33
31	Operational Life Cycle Impact Assessment weighting factors based on Planetary Boundaries: Applied to cosmetic products. Ecological Indicators, 2019, 107, 105498.	6.3	33
32	Do interspecies correlation estimations increase the reliability of toxicity estimates for wildlife?. Ecotoxicology and Environmental Safety, 2012, 80, 238-243.	6.0	30
33	Plant Species Sensitivity Distributions for ozone exposure. Environmental Pollution, 2013, 178, 1-6.	7.5	29
34	Modeling the environmental fate of perfluorooctanoate and its precursors from global fluorotelomer acrylate polymer use. Environmental Toxicology and Chemistry, 2008, 27, 2216-2223.	4.3	27
35	A spatially explicit data-driven approach to assess the effect of agricultural land occupation on species groups. International Journal of Life Cycle Assessment, 2014, 19, 758-769.	4.7	26
36	Quantifying variability in removal efficiencies of chemicals in activated sludge wastewater treatment plants â€“ a meta-analytical approach. Environmental Sciences: Processes and Impacts, 2018, 20, 171-182.	3.5	26

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37	Spatially explicit life cycle impact assessment for soil erosion from global crop production. Ecosystem Services, 2018, 30, 220-227.	5.4	25
38	Global relative species loss due to firstâ€generation biofuel production for the transport sector. GCB Bioenergy, 2019, 11, 763-772.	5.6	24
39	Chemical footprint of pesticides used in citrus orchards based on canopy deposition and off-target losses. Science of the Total Environment, 2020, 732, 139118.	8.0	23
40	Regionalised life cycle assessment of pasta production in Iran: Damage to terrestrial ecosystems. Journal of Cleaner Production, 2017, 159, 141-146.	9.3	22
41	Regionalization in LCA: current status in concepts, software and databasesâ€"69th LCA forum, Swiss Federal Institute of Technology, Zurich, 13 September, 2018. International Journal of Life Cycle Assessment, 2019, 24, 364-369.	4.7	21
42	Global land use impacts on biomass productionâ€"a spatial-differentiated resource-related life cycle impact assessment method. International Journal of Life Cycle Assessment, 2015, 20, 440-450.	4.7	20
43	Life cycle energy use, costs, and greenhouse gas emission of broiler farms in different production systems in Iranâ€"a case study of Alborz province. Environmental Science and Pollution Research, 2017, 24, 16041-16049.	5.3	20
44	European characterization factors for damage to natural vegetation by ozone in life cycle impact assessment. Atmospheric Environment, 2013, 77, 318-324.	4.1	19
45	Confronting variability with uncertainty in the ecotoxicological impact assessment of down-the-drain products. Environment International, 2019, 126, 37-45.	10.0	18
46	Life cycle assessment of side stream removal and recovery of nitrogen from wastewater treatment plants. Journal of Industrial Ecology, 2020, 24, 913-922.	5.5	17
47	Ranking of agricultural pesticides in the rhineâ€meuseâ€scheldt basin based on toxic pressure in marine ecosystems. Environmental Toxicology and Chemistry, 2008, 27, 737-745.	4.3	16
48	Making fate and exposure models for freshwater ecotoxicity in life cycle assessment suitable for organic acids and bases. Chemosphere, 2013, 90, 312-317.	8.2	16
49	Environmental benefits of urea production from basic oxygen furnace gas. Applied Energy, 2020, 270, 115119.	10.1	15
50	Spatial and technological variability in the carbon footprint of durum wheat production in Iran. International Journal of Life Cycle Assessment, 2017, 22, 1893-1900.	4.7	14
51	Reliable and representative in silico predictions of freshwater ecotoxicological hazardous concentrations. Environment International, 2020, 134, 105334.	10.0	14
52	Variability of Greenhouse Gas Footprints of Field Tomatoes Grown for Processing: Interyear and Intercountry Assessment. Environmental Science & Technology, 2018, 52, 135-144.	10.0	13
53	Do initial concentration and activated sludge seasonality affect pharmaceutical biotransformation rate constants?. Applied Microbiology and Biotechnology, 2021, 105, 6515-6527.	3.6	11
54	Drivers of variability in greenhouse gas footprints of crop production. Journal of Cleaner Production, 2021, 315, 128121.	9.3	11

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55	Including exposure variability in the life cycle impact assessment of indoor chemical emissions: The case of metal degreasing. Environment International, 2014, 71, 36-45.	10.0	10
56	Impacts of biogenic <scp><scp>CO₂</scp></scp> emissions on human health and terrestrial ecosystems: the case of increased wood extraction for bioenergy production on a global scale. GCB Bioenergy, 2015, 7, 608-617.	5.6	10
57	Estimation of chemical emissions from down-the-drain consumer products using consumer survey data at a country and wastewater treatment plant level. Chemosphere, 2018, 193, 32-41.	8.2	10
58	Including ecotoxic impacts on warmâ€blooded predators in life cycle impact assessment. Integrated Environmental Assessment and Management, 2012, 8, 372-378.	2.9	9
59	Impact of energy flow optimization on the mitigation of environmental consequences and costs in greenhouse cucumber production. Environmental Science and Pollution Research, 2021, 28, 8421-8433.	5.3	9
60	Spatial variability versus parameter uncertainty in freshwater fate and exposure factors of chemicals. Chemosphere, 2016, 149, 101-107.	8.2	8
61	Comparing greenhouse gas footprints and payback times of crop-based biofuel production worldwide. Biofuels, 2019, , 1-7.	2.4	8
62	Statistical uncertainty in hazardous terrestrial concentrations estimated with aquatic ecotoxicity data. Chemosphere, 2013, 93, 366-372.	8.2	6
63	Uncertainty in msPAFâ€based ecotoxicological effect factors for freshwater ecosystems in life cycle impact assessment. Integrated Environmental Assessment and Management, 2007, 3, e6.	2.9	5
64	Acidification. LCA Compendium, 2015, , 163-176.	0.8	5
65	Simulating behavior of petroleum compounds during refinery effluent treatment using the SimpleTreat model. Chemosphere, 2021, 263, 128081.	8.2	3
66	Ammonia and chromate interaction explains unresolved Hyalella azteca mortality in Flandersâ€™ sediment bioassays. Chemosphere, 2021, 271, 129446.	8.2	1