

# Rolf Frischknecht

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

5,433  
citations

126907

33  
h-index

144013

57  
g-index

68  
all docs

68  
docs citations

68  
times ranked

4541  
citing authors

#	ARTICLE	IF	CITATIONS
1	The ecoinvent Database: Overview and Methodological Framework (7 pp). International Journal of Life Cycle Assessment, 2005, 10, 3-9.	4.7	832
2	Embodied GHG emissions of buildings – The hidden challenge for effective climate change mitigation. Applied Energy, 2020, 258, 114107.	10.1	457
3	Is Cumulative Fossil Energy Demand a Useful Indicator for the Environmental Performance of Products?. Environmental Science & Technology, 2006, 40, 641-648.	10.0	356
4	Cumulative Energy Demand As Predictor for the Environmental Burden of Commodity Production. Environmental Science & Technology, 2010, 44, 2189-2196.	10.0	323
5	The ecoinvent database system: a comprehensive web-based LCA database. Journal of Cleaner Production, 2005, 13, 1337-1343.	9.3	319
6	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
7	Cumulative energy demand in LCA: the energy harvested approach. International Journal of Life Cycle Assessment, 2015, 20, 957-969.	4.7	241
8	Applying cumulative exergy demand (CExD) indicators to the ecoinvent database. International Journal of Life Cycle Assessment, 2007, 12, 181-190.	4.7	237
9	Ecological footprint accounting in the life cycle assessment of products. Ecological Economics, 2008, 64, 798-807.	5.7	180
10	LCI modelling approaches applied on recycling of materials in view of environmental sustainability, risk perception and eco-efficiency. International Journal of Life Cycle Assessment, 2010, 15, 666-671.	4.7	163
11	LCIA framework and cross-cutting issues guidance within the UNEP-SETAC Life Cycle Initiative. Journal of Cleaner Production, 2017, 161, 957-967.	9.3	141
12	Life Cycle Assessment for Emerging Technologies: Case Studies for Photovoltaic and Wind Power (11) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.7	133
13	Mineral resources in life cycle impact assessment – part I: a critical review of existing methods. International Journal of Life Cycle Assessment, 2020, 25, 784-797.	4.7	95
14	Global guidance on environmental life cycle impact assessment indicators: impacts of climate change, fine particulate matter formation, water consumption and land use. International Journal of Life Cycle Assessment, 2018, 23, 2189-2207.	4.7	94
15	Allocation in Life Cycle Inventory Analysis for Joint Production. International Journal of Life Cycle Assessment, 2000, 5, 85.	4.7	88
16	Global guidance on environmental life cycle impact assessment indicators: progress and case study. International Journal of Life Cycle Assessment, 2016, 21, 429-442.	4.7	88
17	Mineral resources in life cycle impact assessment: part II – recommendations on application-dependent use of existing methods and on future method development needs. International Journal of Life Cycle Assessment, 2020, 25, 798-813.	4.7	84
18	Applying cumulative exergy demand (CExD) indicators to the ecoinvent database. International Journal of Life Cycle Assessment, 2007, 12, 181-190.	4.7	82

#	ARTICLE	IF	CITATIONS
19	A special view on the nature of the allocation problem. International Journal of Life Cycle Assessment, 1998, 3, 321-332.	4.7	80
20	Life cycle inventory analysis for decision-making. International Journal of Life Cycle Assessment, 1998, 3, 67-67.	4.7	64
21	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
22	Energy Return on Energy Invested (ERoEI) for photovoltaic solar systems in regions of moderate insolation: A comprehensive response. Energy Policy, 2017, 102, 377-384.	8.8	59
23	Overview and recommendations for regionalized life cycle impact assessment. International Journal of Life Cycle Assessment, 2019, 24, 856-865.	4.7	57
24	Representing Statistical Distributions for Uncertain Parameters in LCA. Relationships between mathematical forms, their representation in EcoSpold, and their representation in CMLCA (7 pp). International Journal of Life Cycle Assessment, 2005, 10, 248-254.	4.7	52
25	Scope-dependent modelling of electricity supply in life cycle assessments. International Journal of Life Cycle Assessment, 2010, 15, 806-816.	4.7	51
26	Session "Midpoint, endpoint or single score for decision-making?" SETAC Europe 25th Annual Meeting, May 5th, 2015. International Journal of Life Cycle Assessment, 2016, 21, 129-132.	4.7	49
27	Einstein's lessons for energy accounting in LCA. International Journal of Life Cycle Assessment, 1998, 3, 266-272.	4.7	43
28	Environmental assessment of future technologies: how to trim LCA to fit this goal?. International Journal of Life Cycle Assessment, 2009, 14, 584-588.	4.7	43
29	ecoinvent Data v1.1 (2004): From heterogenous databases to unified and transparent LCI data. International Journal of Life Cycle Assessment, 2005, 10, 1-2.	4.7	42
30	Life Cycle Assessment of the Mobile Communication System UMTS: Towards Eco-efficient Systems (12) Tj ETQq0 0,0,rgBT /Overlock 10	4.7	41
31	Making Sense of the Minefield of Footprint Indicators. Environmental Science & Technology, 2015, 49, 2601-2603.	10.0	38
32	Area of concern: a new paradigm in life cycle assessment for the development of footprint metrics. International Journal of Life Cycle Assessment, 2016, 21, 276-280.	4.7	38
33	Environmental benchmarks for buildings: needs, challenges and solutions"71st LCA forum, Swiss Federal Institute of Technology, Zürich, 18 June 2019. International Journal of Life Cycle Assessment, 2019, 24, 2272-2280.	4.7	38
34	Life cycle assessment of electric mobility: answers and challenges"Zurich, April 6, 2011. International Journal of Life Cycle Assessment, 2011, 16, 691-695.	4.7	34
35	Feasibility of environmental product information based on life cycle thinking and recommendations for Switzerland. Journal of Cleaner Production, 2012, 28, 187-197.	9.3	34
36	Life cycle assessment in the building sector: analytical tools, environmental information and labels. International Journal of Life Cycle Assessment, 2015, 20, 421-425.	4.7	31

#	ARTICLE	IF	CITATIONS
37	(Net-) zero-emission buildings: a typology of terms and definitions. Buildings and Cities, 2020, 1, 662-675.	2.3	27
38	LCA and decision making: when and how to use consequential LCA; 62nd LCA forum, Swiss Federal Institute of Technology, Zürich, 9 September 2016. International Journal of Life Cycle Assessment, 2017, 22, 296-301.	4.7	24
39	The Product Environmental Footprint (PEF) of photovoltaic modules – Lessons learned from the environmental footprint pilot phase on the way to a single market for green products in the European Union. Progress in Photovoltaics: Research and Applications, 2018, 26, 553-564.	8.1	24
40	Process on –global guidance for LCA databases–. International Journal of Life Cycle Assessment, 2011, 16, 95-97.	4.7	23
41	Abiotic resources: new impact assessment approaches in view of resource efficiency and resource criticality – 55th Discussion Forum on Life Cycle Assessment, Zurich, Switzerland, April 11, 2014. International Journal of Life Cycle Assessment, 2014, 19, 1686-1692.	4.7	23
42	Factors for Eco-Efficiency Improvement of Thermal Insulation Materials. Key Engineering Materials, 0, 678, 1-13.	0.4	23
43	Regionalization in LCA: current status in concepts, software and databases – 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
44	Lehrbuch der –kobilanzierung. , 2020, , .		21
45	Notions on the Design and Use of an Ideal Regional or Global LCA Database. International Journal of Life Cycle Assessment, 2006, 11, 40-48.	4.7	20
46	Ecological scarcity 2013 – new features and its application in industry and administration – 54th LCA forum, Ittigen/Berne, Switzerland, December 5, 2013. International Journal of Life Cycle Assessment, 2014, 19, 1361-1366.	4.7	20
47	Guidelines for consistent reporting of exchanges/to nature within life cycle inventories (LCI). International Journal of Life Cycle Assessment, 2001, 6, 192.	4.7	19
48	ENVI – PV: an interactive Web Client for multi – criteria life cycle assessment of photovoltaic systems worldwide. Progress in Photovoltaics: Research and Applications, 2017, 25, 484-498.	8.1	15
49	Embodied GHG emissions of buildings – Critical reflection of benchmark comparison and in-depth analysis of drivers. IOP Conference Series: Earth and Environmental Science, 2020, 588, 032048.	0.3	12
50	The seductive effect of identical physical units. International Journal of Life Cycle Assessment, 1997, 2, 125.	4.7	9
51	Life cycle assessment of PV – battery systems for a cloakroom and club building in Zurich. Progress in Photovoltaics: Research and Applications, 2019, 27, 926-933.	8.1	9
52	Carbon footprints and reduction requirements: the Swiss real estate sector. Buildings and Cities, 2020, 1, 325-336.	2.3	6
53	National environmental footprints and planetary boundaries: from methodology to policy implementation 59th LCA forum, Swiss Federal Institute of Technology, Zürich, June 12, 2015. International Journal of Life Cycle Assessment, 2016, 21, 601-605.	4.7	5
54	Life cycle inventory methodology and databases. International Journal of Life Cycle Assessment, 2010, 15, 1-3.	4.7	4

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55	Multifunctionality in Life Cycle Inventory Analysis: Approaches and Solutions. LCA Compendium, 2021, , 73-95.	0.8	4
56	LCA of mobility solutions: approaches and findingsâ€™66th LCA forum, Swiss Federal Institute of Technology, Zurich, 30 August, 2017. International Journal of Life Cycle Assessment, 2018, 23, 381-386.	4.7	3
57	The ecoinvent Database - Reply to the Letter to the Editor of Schmidt & Jensen [Int J LCA 10 (2) 97]. International Journal of Life Cycle Assessment, 2005, 10, 166-167.	4.7	2
58	LCA of key technologies for future electricity supplyâ€™68th LCA forum, Swiss Federal Institute of Technology, Zurich, 16 April, 2018. International Journal of Life Cycle Assessment, 2018, 23, 1716-1721.	4.7	2
59	Wirkungsabschätzung. , 2020, , 101-145.		1
60	Sachbilanz. , 2020, , 43-99.		1
61	Life Cycle Inventory Analysis Applied to Renewable Resources. , 2006, , 55-72.		0
62	The role of environmental life cycle thinking in long-term (energy) strategies, 51st LCA forum, Ittigen/Berne, April 25, 2013. International Journal of Life Cycle Assessment, 2013, 18, 1629-1633.	4.7	0
63	Neue Ansätze. , 2020, , 155-179.		0
64	Informationen für den Einstieg. , 2020, , 181-190.		0