Rolf Frischknecht

List of Publications by Year
in descending order

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	Multifunctionality in Life Cycle Inventory Analysis: Approaches and Solutions. LCA Compendium, 2021, , 73-95.	0.8	4
2	Embodied GHG emissions of buildings â€“ The hidden challenge for effective climate change mitigation. Applied Energy, 2020, 258, 114107.	10.1	457
3	Embodied GHG emissions of buildings â€“ Critical reflection of benchmark comparison and in-depth analysis of drivers. IOP Conference Series: Earth and Environmental Science, 2020, 588, 032048.	0.3	12
4	Lehrbuch der Ã–kobilanzierung. , 2020, , .		21
5	Mineral resources in life cycle impact assessment: part II â€“ 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
6	Mineral resources in life cycle impact assessmentâ€”part I: a critical review of existing methods. International Journal of Life Cycle Assessment, 2020, 25, 784-797.	4.7	95
7	Carbon footprints and reduction requirements: the Swiss real estate sector. Buildings and Cities, 2020, 1, 325-336.	2.3	6
8	(Net-) zero-emission buildings: a typology of terms and definitions. Buildings and Cities, 2020, 1, 662-675.	2.3	27
9	Neue AnsÃtze. , 2020, , 155-179.		0
10	Informationen fÃ¼r den Einstieg. , 2020, , 181-190.		0
11	WirkungsabschÃtzung. , 2020, , 101-145.		1
12	Sachbilanz. , 2020, , 43-99.		1
13	Environmental benchmarks for buildings: needs, challenges and solutionsâ€”71st LCA forum, Swiss Federal Institute of Technology, ZÃ¼rich, 18 June 2019. International Journal of Life Cycle Assessment, 2019, 24, 2272-2280.	4.7	38
14	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
15	Overview and recommendations for regionalized life cycle impact assessment. International Journal of Life Cycle Assessment, 2019, 24, 856-865.	4.7	57
16	Life cycle assessment of PVâ€battery systems for a cloakroom and club building in Zurich. Progress in Photovoltaics: Research and Applications, 2019, 27, 926-933.	8.1	9
17	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
18	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

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19	The Product Environmental Footprint (PEF) of photovoltaic modulesâ€"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
20	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
21	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
22	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
23	LCA and decision making: when and how to use consequential LCA; 62nd LCA forum, Swiss Federal Institute of Technology, ZÃ¼rich, 9 September 2016. International Journal of Life Cycle Assessment, 2017, 22, 296-301.	4.7	24
24	ENVIâ€PV: an interactive Web Client for multiâ€criteria life cycle assessment of photovoltaic systems worldwide. Progress in Photovoltaics: Research and Applications, 2017, 25, 484-498.	8.1	15
25	Session â€œMidpoint, endpoint or single score for decision-making?â€â€"SETAC Europe 25th Annual Meeting, May 5th, 2015. International Journal of Life Cycle Assessment, 2016, 21, 129-132.	4.7	49
26	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
27	National environmental footprints and planetary boundaries: from methodology to policy implementation 59th LCA forum, Swiss Federal Institute of Technology, ZÃ¼rich, June 12, 2015. International Journal of Life Cycle Assessment, 2016, 21, 601-605.	4.7	5
28	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
29	Cumulative energy demand in LCA: the energy harvested approach. International Journal of Life Cycle Assessment, 2015, 20, 957-969.	4.7	241
30	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
31	Making Sense of the Minefield of Footprint Indicators. Environmental Science & Technology, 2015, 49, 2601-2603.	10.0	38
32	Abiotic resources: new impact assessment approaches in view of resource efficiency and resource criticalityâ€"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
33	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
34	Ecological scarcity 2013â€"new features and its application in industry and administrationâ€"54th LCA forum, Ittigen/Berne, Switzerland, December 5, 2013. International Journal of Life Cycle Assessment, 2014, 19, 1361-1366.	4.7	20
35	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
36	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

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37	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
38	Process on â€œglobal guidance for LCA databasesâ€• International Journal of Life Cycle Assessment, 2011, 16, 95-97.	4.7	23
39	Life cycle assessment of electric mobility: answers and challengesâ€”Zurich, April 6, 2011. International Journal of Life Cycle Assessment, 2011, 16, 691-695.	4.7	34
40	Life cycle inventory methodology and databases. International Journal of Life Cycle Assessment, 2010, 15, 1-3.	4.7	4
41	Scope-dependent modelling of electricity supply in life cycle assessments. International Journal of Life Cycle Assessment, 2010, 15, 806-816.	4.7	51
42	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
43	Cumulative Energy Demand As Predictor for the Environmental Burden of Commodity Production. Environmental Science & Technology, 2010, 44, 2189-2196.	10.0	323
44	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
45	Ecological footprint accounting in the life cycle assessment of products. Ecological Economics, 2008, 64, 798-807.	5.7	180
46	Applying cumulative exergy demand (CExD) indicators to the ecoinvent database. International Journal of Life Cycle Assessment, 2007, 12, 181-190.	4.7	237
47	Applying cumulative exergy demand (CExD) indicators to the ecoinvent database. International Journal of Life Cycle Assessment, 2007, 12, 181-190.	4.7	82
48	Is Cumulative Fossil Energy Demand a Useful Indicator for the Environmental Performance of Products?. Environmental Science & Technology, 2006, 40, 641-648.	10.0	356
49	Life Cycle Assessment of the Mobile Communication System UMTS: Towards Eco-efficient Systems (12) Tj ETQq1 1 0.784314 rgBT /Ove	4.7	41
50	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
51	Life Cycle Inventory Analysis Applied to Renewable Resources. , 2006, , 55-72.		0
52	The ecoinvent database system: a comprehensive web-based LCA database. Journal of Cleaner Production, 2005, 13, 1337-1343.	9.3	319
53	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
54	The ecoinvent Database: Overview and Methodological Framework (7 pp). International Journal of Life Cycle Assessment, 2005, 10, 3-9.	4.7	832

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55	Life Cycle Assessment for Emerging Technologies: Case Studies for Photovoltaic and Wind Power (11) Tj ETQq1 1 0.784314 rgBT /Ov	4.7	133
56	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
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	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
59	Allocation in Life Cycle Inventory Analysis for Joint Production. International Journal of Life Cycle Assessment, 2000, 5, 85.	4.7	88
60	Life cycle inventory analysis for decision-making. International Journal of Life Cycle Assessment, 1998, 3, 67-67.	4.7	64
61	A special view on the nature of the allocation problem. International Journal of Life Cycle Assessment, 1998, 3, 321-332.	4.7	80
62	Einsteinâ€™ssons for energy accounting in LCA. International Journal of Life Cycle Assessment, 1998, 3, 266-272.	4.7	43
63	The seductive effect of identical physical units. International Journal of Life Cycle Assessment, 1997, 2, 125.	4.7	9
64	Factors for Eco-Efficiency Improvement of Thermal Insulation Materials. Key Engineering Materials, 0, 678, 1-13.	0.4	23