

# Thomas Gibon

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3726179/publications.pdf>

Version: 2024-02-01

23  
papers

1,364  
citations

516710

16  
h-index

642732

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1608  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated life-cycle assessment of electricity-supply scenarios confirms global environmental benefit of low-carbon technologies. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6277-6282.	7.1	508
2	Environmental co-benefits and adverse side-effects of alternative power sector decarbonization strategies. Nature Communications, 2019, 10, 5229.	12.8	188
3	A Methodology for Integrated, Multiregional Life Cycle Assessment Scenarios under Large-Scale Technological Change. Environmental Science & Technology, 2015, 49, 11218-11226.	10.0	107
4	Real-time carbon accounting method for the European electricity markets. Energy Strategy Reviews, 2019, 26, 100367.	7.3	86
5	Life cycle assessment demonstrates environmental co-benefits and trade-offs of low-carbon electricity supply options. Renewable and Sustainable Energy Reviews, 2017, 76, 1283-1290.	16.4	74
6	Thin-Film Photovoltaic Power Generation Offers Decreasing Greenhouse Gas Emissions and Increasing Environmental Co-benefits in the Long Term. Environmental Science & Technology, 2014, 48, 9834-9843.	10.0	61
7	Health benefits, ecological threats of low-carbon electricity. Environmental Research Letters, 2017, 12, 034023.	5.2	44
8	A tool to operationalize dynamic LCA, including time differentiation on the complete background database. International Journal of Life Cycle Assessment, 2020, 25, 267-279.	4.7	41
9	Shades of green: life cycle assessment of renewable energy projects financed through green bonds. Environmental Research Letters, 2020, 15, 104045.	5.2	36
10	An Enhanced Optimal PV and Battery Sizing Model for Zero Energy Buildings Considering Environmental Impacts. IEEE Transactions on Industry Applications, 2020, 56, 6846-6856.	4.9	32
11	Potential Long-term Global Environmental Implications of Efficient Light-source Technologies. Journal of Industrial Ecology, 2016, 20, 263-275.	5.5	30
12	Building Energy Management Systems: Global Potentials and Environmental Implications of Deployment. Journal of Industrial Ecology, 2016, 20, 223-233.	5.5	27
13	Sustainability assessment of circular economy over time: Modelling of finite and variable loops & impact distribution among related products. Resources, Conservation and Recycling, 2021, 168, 105319.	10.8	26
14	The integration of energy scenarios into LCA: LCM2017 Conference Workshop, Luxembourg, September 5, 2017. International Journal of Life Cycle Assessment, 2018, 23, 970-977.	4.7	23
15	Hybrid life cycle assessment of a geothermal plant: From physical to monetary inventory accounting. Journal of Cleaner Production, 2017, 142, 2509-2523.	9.3	19
16	When to replace a product to decrease environmental impact? a consequential LCA framework and case study on car replacement. International Journal of Life Cycle Assessment, 2020, 25, 1500-1521.	4.7	17
17	A New Bi-Objective Approach for Optimal Sizing of Electrical and Thermal Devices in Zero Energy Buildings Considering Environmental Impacts. IEEE Transactions on Sustainable Energy, 2021, 12, 886-896.	8.8	13
18	Coupling Activity-Based Modeling and Life Cycle Assessment – A Proof-of-Concept Study on Cross-Border Commuting in Luxembourg. Sustainability, 2019, 11, 4067.	3.2	9

#	ARTICLE	IF	CITATIONS
19	Lifting the fog on characteristics and limitations of hybrid LCA—a reply to “Does hybrid LCA with a		

