

# Michael Saidani

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6352583/publications.pdf>

Version: 2024-02-01

30  
papers

1,142  
citations

933447

10  
h-index

552781

26  
g-index

31  
all docs

31  
docs citations

31  
times ranked

938  
citing authors

#	ARTICLE	IF	CITATIONS
1	A taxonomy of circular economy indicators. <i>Journal of Cleaner Production</i> , 2019, 207, 542-559.	9.3	537
2	How to Assess Product Performance in the Circular Economy? Proposed Requirements for the Design of a Circularity Measurement Framework. <i>Recycling</i> , 2017, 2, 6.	5.0	159
3	Two decades of research on waste management in the circular economy: Insights from bibliometric, text mining, and content analyses. <i>Journal of Cleaner Production</i> , 2021, 314, 128009.	9.3	107
4	Heavy vehicles on the road towards the circular economy: Analysis and comparison with the automotive industry. <i>Resources, Conservation and Recycling</i> , 2018, 135, 108-122.	10.8	68
5	Towards a Smart E-Waste System Utilizing Supply Chain Participants and Interactive Online Maps. <i>Recycling</i> , 2021, 6, 8.	5.0	35
6	Closing the loop on platinum from catalytic converters: Contributions from material flow analysis and circularity indicators. <i>Journal of Industrial Ecology</i> , 2019, 23, 1143-1158.	5.5	34
7	Management of the end-of-life of light and heavy vehicles in the U.S.: comparison with the European union in a circular economy perspective. <i>Journal of Material Cycles and Waste Management</i> , 2019, 21, 1449-1461.	3.0	32
8	Dismantling, remanufacturing and recovering heavy vehicles in a circular economy – Technico-economic and organisational lessons learnt from an industrial pilot study. <i>Resources, Conservation and Recycling</i> , 2020, 156, 104684.	10.8	28
9	A Research Roadmap for Sustainable Design Methods and Tools. <i>Sustainability</i> , 2020, 12, 8174.	3.2	26
10	Designing optimal COVID-19 testing stations locally: A discrete event simulation model applied on a university campus. <i>PLoS ONE</i> , 2021, 16, e0253869.	2.5	15
11	TRANSITION TOWARDS A CIRCULAR ECONOMY: THE ROLE OF UNIVERSITY ASSETS IN THE IMPLEMENTATION OF A NEW MODEL. <i>Detritus</i> , 2021, , 3-14.	0.9	11
12	Assessing the environmental and economic sustainability of autonomous systems: A case study in the agricultural industry. <i>Procedia CIRP</i> , 2020, 90, 209-214.	1.9	9
13	Comparative life cycle assessment and costing of an autonomous lawn mowing system with human-operated alternatives: implication for sustainable design improvements. <i>International Journal of Sustainable Engineering</i> , 2021, 14, 704-724.	3.5	9
14	Designing an Optimal Modular-Based Product Family Under Intellectual Property and Sustainability Considerations. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2021, 143, .	2.9	8
15	What about the circular economy of vehicles in the U.S.? An extension of the analysis done in the EU by Saidani et al. (2017). <i>Resources, Conservation and Recycling</i> , 2018, 136, 287-288.	10.8	7
16	COMPARING LIFE CYCLE IMPACT ASSESSMENT, CIRCULARITY AND SUSTAINABILITY INDICATORS FOR SUSTAINABLE DESIGN: RESULTS FROM A HANDS-ON PROJECT WITH 87 ENGINEERING STUDENTS. <i>Proceedings of the Design Society</i> , 2021, 1, 681-690.	0.8	7
17	Framing Product Circularity Performance for Optimized Green Profit. , 2019, , .		7
18	Circular economy as a key for industrial value chain resilience in a post-COVID world: what do future engineers think?. <i>Procedia CIRP</i> , 2021, 103, 26-31.	1.9	7

#	ARTICLE	IF	CITATIONS
19	A Discrete Event Simulation-Based Model to Optimally Design and Dimension Mobile COVID-19 Saliva-Based Testing Stations. <i>Simulation in Healthcare</i> , 2021, 16, 151-152.	1.2	6
20	Quantification of the environmental and economic benefits of the electrification of lawn mowers on the US residential market. <i>International Journal of Life Cycle Assessment</i> , 2021, 26, 1267-1284.	4.7	5
21	Nexus Between Life Cycle Assessment, Circularity, and Sustainability Indicatorsâ€”Part I: a Review. <i>Circular Economy and Sustainability</i> , 2022, 2, 1143-1156.	5.5	5
22	Clarify the nexus between life cycle assessment and circularity indicators: a SETAC/ACLCA interest group. <i>International Journal of Life Cycle Assessment</i> , 2022, 27, 916-925.	4.7	4
23	Optimal Product Family Architecture Design and Commonality Decision for Sustainability and Intellectual Property Protection. , 2020, , .		2
24	Nexus Between Life Cycle Assessment, Circularity and Sustainability Indicatorsâ€”Part II: Experimentations. <i>Circular Economy and Sustainability</i> , 2022, 2, 1399-1424.	5.5	2
25	Testing the Robustness of Circularity Indicators: Empirical Insights from Workshops on an Industrial Product. <i>Proceedings of the Design Society International Conference on Engineering Design</i> , 2019, 1, 3401-3410.	0.6	1
26	Multi-tool methodology to evaluate action levers to close the loop on critical materials â€” Application to precious metals used in catalytic converters. <i>Sustainable Production and Consumption</i> , 2021, 26, 999-1010.	11.0	1
27	UNDERSTANDING AND MONITORING ENVIRONMENTAL PERFORMANCE OF INFRASTRUCTURE DESIGN PROJECTS. <i>Proceedings of the Design Society</i> , 2021, 1, 3269-3278.	0.8	1
28	Switching From Petroleum- to Bio-Based Plastics: Visualization Tools to Screen Sustainable Material Alternatives During the Design Process. , 2020, , .		1
29	Combining life cycle assessment and online customer reviews to design more sustainable products - Case study on a printing machine. <i>Procedia CIRP</i> , 2022, 109, 604-609.	1.9	1
30	Benchmark of Circularity Indicators and Links with Life Cycle Assessment. <i>E3S Web of Conferences</i> , 2022, 349, 01004.	0.5	0