Fabrice Mathieux

List of Publications by Year
in descending order

54	2,787	201674 27	175258 52
papers	citations	h-index	g-index

55	55	55	2537
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Circular economy indicators: What do they measure?. Resources, Conservation and Recycling, 2019, 146, 452-461.	10.8	591
2	Ease of disassembly of products to support circular economy strategies. Resources, Conservation and Recycling, 2018, 135, 323-334.	10.8	174
3	Life Cycle Assessment of repurposed electric vehicle batteries: an adapted method based on modelling energy flows. Journal of Energy Storage, 2018, 19, 213-225.	8.1	132
4	Toward a systematized framework for resource efficiency indicators. Resources, Conservation and Recycling, 2015, 95, 68-76.	10.8	115
5	The recyclability benefit rate of closed-loop and open-loop systems: A case study on plastic recycling in Flanders. Resources, Conservation and Recycling, 2015, 101, 53-60.	10.8	107
6	The search for an appropriate end-of-life formula for the purpose of the European Commission Environmental Footprint initiative. International Journal of Life Cycle Assessment, 2017, 22, 1441-1458.	4.7	98
7	In search of standards to support circularity in product policies: A systematic approach. Journal of Cleaner Production, 2017, 168, 1533-1546.	9.3	97
8	Allocation solutions for secondary material production and end of life recovery: Proposals for product policy initiatives. Resources, Conservation and Recycling, 2014, 88, 1-12.	10.8	96
9	How will second-use of batteries affect stocks and flows in the EU? A model for traction Li-ion batteries. Resources, Conservation and Recycling, 2019, 145, 279-291.	10.8	94
10	Environmental assessment of the durability of energy-using products: method and application. Journal of Cleaner Production, 2014, 74, 62-73.	9.3	91
11	Identification and assessment of product's measures to improve resource efficiency: the case-study of an Energy using Product. Journal of Cleaner Production, 2014, 83, 126-141.	9.3	83
12	Recycling of electronic displays: Analysis of pre-processing and potential ecodesign improvements. Resources, Conservation and Recycling, 2014, 92, 158-171.	10.8	76
13	Contributions to eco-design of machine-to-machine product service systems: the example of waste glass collection. Journal of Cleaner Production, 2011, 19, 1033-1044.	9.3	70
14	ReSICLED: a new recovery-conscious design method for complex products based on a multicriteria assessment of the recoverability. Journal of Cleaner Production, 2008, 16, 277-298.	9.3	68
15	Environmental and economic assessment of durability of energy-using products: Method and application to a case-studyâ€‹ vacuum cleaner. Journal of Cleaner Production, 2016, 137, 762-776.	9.3	53
16	Sustainability Assessment of Second Use Applications of Automotive Batteries: Ageing of Li-Ion Battery Cells in Automotive and Grid-Scale Applications. World Electric Vehicle Journal, 2018, 9, 24.	3.0	51
17	Use of recycled natural fibres in industrial products: A comparative LCA case study on acoustic components in the Brazilian automotive sector. Resources, Conservation and Recycling, 2014, 84, 1-14.	10.8	50
18	Accounting for the environmental benefits of remanufactured products: Method and application. Journal of Cleaner Production, 2018, 198, 1545-1558.	9.3	44

#	Article	IF	Citations
19	An integrated method for environmental assessment and ecodesign of ICT-based optimization services. Journal of Cleaner Production, 2014, 68, 144-154.	9.3	41
20	Title is missing!. The Journal of Sustainable Product Design, 2001, 1, 233-245.	0.4	38
21	Understanding lifetimes and failure modes of defective washing machines and dishwashers. Journal of Cleaner Production, 2019, 215, 1112-1122.	9.3	38
22	Advances towards circular economy policies in the EU: The new Ecodesign regulation of enterprise servers. Resources, Conservation and Recycling, 2020, 154, 104426.	10.8	38
23	Design for Disassembly Criteria in EU Product Policies for a More Circular Economy: A Method for Analyzing Battery Packs in PCâ€Tablets and Subnotebooks. Journal of Industrial Ecology, 2017, 21, 731-741.	5.5	37
24	Assessing impacts of responsible sourcing initiatives for cobalt: Insights from a case study. Resources Policy, 2021, 71, 102015.	9.6	37
25	End-of-life product-specific material flow analysis. Application to aluminum coming from end-of-life commercial vehicles in Europe. Resources, Conservation and Recycling, 2010, 55, 92-105.	10.8	33
26	Towards sustainable resource management: identification and quantification of human actions that compromise the accessibility of metal resources. Resources, Conservation and Recycling, 2021, 167, 105403.	10.8	30
27	Novel indicators to better monitor the collection and recovery of (critical) raw materials in WEEE: Focus on screens. Resources, Conservation and Recycling, 2020, 157, 104772.	10.8	29
28	An environmental assessment method for wireless sensor networks. Journal of Cleaner Production, 2012, 33, 145-154.	9.3	28
29	Analysis of end-of-life treatments of commercial refrigerating appliances: Bridging product and waste policies. Resources, Conservation and Recycling, 2015, 101, 42-52.	10.8	28
30	Collaborative network with SMEs providing a backbone for urban PSS: a model and initial sustainability analysis. Production Planning and Control, 2012, 23, 299-314.	8.8	24
31	Integration of environmental aspects into R&D inter-organizational projects management: application of a life cycle-based method to the development of innovative windows. Journal of Cleaner Production, 2016, 112, 3388-3401.	9.3	24
32	Contribution to the characterisation of eco-design projects. International Journal of Sustainable Engineering, 2011, 4, 301-312.	3.5	23
33	Towards a durability test for washing-machines. Resources, Conservation and Recycling, 2018, 131, 206-215.	10.8	20
34	Drivers and Barriers to the Circular Economy Transition: the Case of Recycled Plastics in the Automotive Sector in the European Union. Procedia CIRP, 2022, 105, 37-42.	1.9	20
35	Bridging Tools to Better Understand Environmental Performances and Raw Materials Supply of Traction Batteries in the Future EU Fleet. Energies, 2020, 13, 2513.	3.1	19
36	A method for manual disassembly analysis to support the ecodesign of electronic displays. Resources, Conservation and Recycling, 2016, 114, 42-58.	10.8	18

#	Article	IF	Citations
37	Results of the first adapted design for sustainability project in a South Pacific small island developing state: Fiji. Journal of Cleaner Production, 2010, 18, 1775-1786.	9.3	16
38	Challenges and opportunities for web-shared publication of quality-assured life cycle data: the contributions of the Life Cycle Data Network. International Journal of Life Cycle Assessment, 2015, 20, 895-902.	4.7	16
39	Resource efficiency, privacy and security by design: A first experience on enterprise servers and data storage products triggered by a policy process. Computers and Security, 2018, 76, 295-310.	6.0	13
40	A methodological approach for manufacturers to enhance value-in-use of service-based offerings considering three dimensions of sustainability. CIRP Annals - Manufacturing Technology, 2019, 68, 33-36.	3.6	13
41	Material system analysis: A novel multilayer system approach to correlate EU flows and stocks of Liâ€ion batteries and their raw materials. Journal of Industrial Ecology, 2022, 26, 1261-1276.	5.5	13
42	Ecodesign of Personal Computers: An Analysis of the Potentials of Material Efficiency Options. Procedia CIRP, 2018, 69, 716-721.	1.9	12
43	Measuring the Time for Extracting Components in End-of-life Products: Needs for a Standardized Method and Aspects to be Considered. Procedia CIRP, 2014, 15, 245-250.	1.9	11
44	Toward a Framework for Resource Efficiency Evaluation in Industry: Recommendations for Research and Innovation Projects. Resources, 2017, 6, 5.	3.5	11
45	Ten years of scientific support for integrating circular economy requirements in the EU ecodesign directive: Overview and lessons learnt. Procedia CIRP, 2020, 90, 137-142.	1.9	11
46	A new â€˜in-use energy consumptionâ€™ indicator for the design of energy-efficient electr(on)ics. Journal of Engineering Design, 2012, 23, 217-235.	2.3	10
47	Influence of Environmental European Product Policies on Product Design-current Status and Future Developments. Procedia CIRP, 2014, 21, 415-420.	1.9	10
48	The enhanced LCA Resources Directory: a tool aimed at improving Life Cycle Thinking practices. International Journal of Life Cycle Assessment, 2013, 18, 273-277.	4.7	9
49	Analysing the contribution of automotive remanufacturing to the circularity of materials. Procedia CIRP, 2020, 90, 67-72.	1.9	9
50	Synergico: a method for systematic integration of energy efficiency into the design process of electr(on)ic equipment. International Journal of Sustainable Engineering, 2013, 6, 225-238.	3.5	5
51	Material system analysis: Functional and nonfunctional cobalt in the EU, 2012â€“2016. Journal of Industrial Ecology, 2022, 26, 1277-1293.	5.5	5
52	Material system analysis: Characterization of flows, stocks, and performance indicators of manganese, nickel, and natural graphite in the EU, 2012â€“2016. Journal of Industrial Ecology, 0, , .	5.5	3
53	A method for supporting the design of efficient heating systems using EU product policy data. International Journal of Sustainable Engineering, 2017, 10, 313-325.	3.5	2
54	From Product to System Approaches in European Sustainable Product Policies: Analysis of the Package Concept of Heating Systems in Buildings. Energies, 2017, 10, 1501.	3.1	2