

Fabrice Mathieux

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,787
citations

201674

27
h-index

175258

52
g-index

55
all docs

55
docs citations

55
times ranked

2537
citing authors

#	ARTICLE	IF	CITATIONS
1	Drivers and Barriers to the Circular Economy Transition: the Case of Recycled Plastics in the Automotive Sector in the European Union. <i>Procedia CIRP</i> , 2022, 105, 37-42.	1.9	20
2	Material system analysis: A novel multilayer system approach to correlate EU flows and stocks of Li-ion batteries and their raw materials. <i>Journal of Industrial Ecology</i> , 2022, 26, 1261-1276.	5.5	13
3	Material system analysis: Functional and nonfunctional cobalt in the EU, 2012-2016. <i>Journal of Industrial Ecology</i> , 2022, 26, 1277-1293.	5.5	5
4	Towards sustainable resource management: identification and quantification of human actions that compromise the accessibility of metal resources. <i>Resources, Conservation and Recycling</i> , 2021, 167, 105403.	10.8	30
5	Assessing impacts of responsible sourcing initiatives for cobalt: Insights from a case study. <i>Resources Policy</i> , 2021, 71, 102015.	9.6	37
6	Advances towards circular economy policies in the EU: The new Ecodesign regulation of enterprise servers. <i>Resources, Conservation and Recycling</i> , 2020, 154, 104426.	10.8	38
7	Ten years of scientific support for integrating circular economy requirements in the EU ecodesign directive: Overview and lessons learnt. <i>Procedia CIRP</i> , 2020, 90, 137-142.	1.9	11
8	Analysing the contribution of automotive remanufacturing to the circularity of materials. <i>Procedia CIRP</i> , 2020, 90, 67-72.	1.9	9
9	Bridging Tools to Better Understand Environmental Performances and Raw Materials Supply of Traction Batteries in the Future EU Fleet. <i>Energies</i> , 2020, 13, 2513.	3.1	19
10	Novel indicators to better monitor the collection and recovery of (critical) raw materials in WEEE: Focus on screens. <i>Resources, Conservation and Recycling</i> , 2020, 157, 104772.	10.8	29
11	Circular economy indicators: What do they measure?. <i>Resources, Conservation and Recycling</i> , 2019, 146, 452-461.	10.8	591
12	A methodological approach for manufacturers to enhance value-in-use of service-based offerings considering three dimensions of sustainability. <i>CIRP Annals - Manufacturing Technology</i> , 2019, 68, 33-36.	3.6	13
13	How will second-use of batteries affect stocks and flows in the EU? A model for traction Li-ion batteries. <i>Resources, Conservation and Recycling</i> , 2019, 145, 279-291.	10.8	94
14	Understanding lifetimes and failure modes of defective washing machines and dishwashers. <i>Journal of Cleaner Production</i> , 2019, 215, 1112-1122.	9.3	38
15	Towards a durability test for washing-machines. <i>Resources, Conservation and Recycling</i> , 2018, 131, 206-215.	10.8	20
16	Resource efficiency, privacy and security by design: A first experience on enterprise servers and data storage products triggered by a policy process. <i>Computers and Security</i> , 2018, 76, 295-310.	6.0	13
17	Ease of disassembly of products to support circular economy strategies. <i>Resources, Conservation and Recycling</i> , 2018, 135, 323-334.	10.8	174
18	Ecodesign of Personal Computers: An Analysis of the Potentials of Material Efficiency Options. <i>Procedia CIRP</i> , 2018, 69, 716-721.	1.9	12

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19	Sustainability Assessment of Second Use Applications of Automotive Batteries: Ageing of Li-Ion Battery Cells in Automotive and Grid-Scale Applications. <i>World Electric Vehicle Journal</i> , 2018, 9, 24.	3.0	51
20	Accounting for the environmental benefits of remanufactured products: Method and application. <i>Journal of Cleaner Production</i> , 2018, 198, 1545-1558.	9.3	44
21	Life Cycle Assessment of repurposed electric vehicle batteries: an adapted method based on modelling energy flows. <i>Journal of Energy Storage</i> , 2018, 19, 213-225.	8.1	132
22	Design for Disassembly Criteria in EU Product Policies for a More Circular Economy: A Method for Analyzing Battery Packs in PCâ€™tablets and Subnotebooks. <i>Journal of Industrial Ecology</i> , 2017, 21, 731-741.	5.5	37
23	In search of standards to support circularity in product policies: A systematic approach. <i>Journal of Cleaner Production</i> , 2017, 168, 1533-1546.	9.3	97
24	The search for an appropriate end-of-life formula for the purpose of the European Commission Environmental Footprint initiative. <i>International Journal of Life Cycle Assessment</i> , 2017, 22, 1441-1458.	4.7	98
25	A method for supporting the design of efficient heating systems using EU product policy data. <i>International Journal of Sustainable Engineering</i> , 2017, 10, 313-325.	3.5	2
26	Toward a Framework for Resource Efficiency Evaluation in Industry: Recommendations for Research and Innovation Projects. <i>Resources</i> , 2017, 6, 5.	3.5	11
27	From Product to System Approaches in European Sustainable Product Policies: Analysis of the Package Concept of Heating Systems in Buildings. <i>Energies</i> , 2017, 10, 1501.	3.1	2
28	A method for manual disassembly analysis to support the ecodesign of electronic displays. <i>Resources, Conservation and Recycling</i> , 2016, 114, 42-58.	10.8	18
29	Environmental and economic assessment of durability of energy-using products: Method and application to a case-studyâ€™ vacuum cleaner. <i>Journal of Cleaner Production</i> , 2016, 137, 762-776.	9.3	53
30	Integration of environmental aspects into R&D inter-organizational projects management: application of a life cycle-based method to the development of innovative windows. <i>Journal of Cleaner Production</i> , 2016, 112, 3388-3401.	9.3	24
31	Toward a systematized framework for resource efficiency indicators. <i>Resources, Conservation and Recycling</i> , 2015, 95, 68-76.	10.8	115
32	Analysis of end-of-life treatments of commercial refrigerating appliances: Bridging product and waste policies. <i>Resources, Conservation and Recycling</i> , 2015, 101, 42-52.	10.8	28
33	Challenges and opportunities for web-shared publication of quality-assured life cycle data: the contributions of the Life Cycle Data Network. <i>International Journal of Life Cycle Assessment</i> , 2015, 20, 895-902.	4.7	16
34	The recyclability benefit rate of closed-loop and open-loop systems: A case study on plastic recycling in Flanders. <i>Resources, Conservation and Recycling</i> , 2015, 101, 53-60.	10.8	107
35	Influence of Environmental European Product Policies on Product Design-current Status and Future Developments. <i>Procedia CIRP</i> , 2014, 21, 415-420.	1.9	10
36	Recycling of electronic displays: Analysis of pre-processing and potential ecodesign improvements. <i>Resources, Conservation and Recycling</i> , 2014, 92, 158-171.	10.8	76

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37	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
38	An integrated method for environmental assessment and ecodesign of ICT-based optimization services. Journal of Cleaner Production, 2014, 68, 144-154.	9.3	41
39	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
40	Environmental assessment of the durability of energy-using products: method and application. Journal of Cleaner Production, 2014, 74, 62-73.	9.3	91
41	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
42	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
43	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
44	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
45	A new "in-use energy consumption"™ indicator for the design of energy-efficient electr(on)ics. Journal of Engineering Design, 2012, 23, 217-235.	2.3	10
46	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
47	An environmental assessment method for wireless sensor networks. Journal of Cleaner Production, 2012, 33, 145-154.	9.3	28
48	Contribution to the characterisation of eco-design projects. International Journal of Sustainable Engineering, 2011, 4, 301-312.	3.5	23
49	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
50	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
51	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
52	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
53	Title is missing!. The Journal of Sustainable Product Design, 2001, 1, 233-245.	0.4	38
54	Material system analysis: Characterization of flows, stocks, and performance indicators of manganese, nickel, and natural graphite in the EU, 2012-2016. Journal of Industrial Ecology, 0, , .	5.5	3