Sami Kara

List of Publications by Year
in descending order

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82	4,489	117453	106150
papers	citations	34 h-index	65 g-index

83	83	83	3616
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Towards energy and resource efficient manufacturing: A processes and systems approach. CIRP Annals - Manufacturing Technology, 2012, 61, 587-609.	1.7	865
2	Design, analysis and manufacturing of lattice structures: an overview. International Journal of Computer Integrated Manufacturing, 2018, 31, 243-261.	2.9	198
3	Manufacturing big data ecosystem: A systematic literature review. Robotics and Computer-Integrated Manufacturing, 2020, 62, 101861.	6.1	182
4	Design, management and control of demanufacturing and remanufacturing systems. CIRP Annals - Manufacturing Technology, 2017, 66, 585-609.	1.7	156
5	Global production networks: Design and operation. CIRP Annals - Manufacturing Technology, 2019, 68, 823-841.	1.7	156
6	Toward integrated product and process life cycle planningâ€"An environmental perspective. CIRP Annals - Manufacturing Technology, 2012, 61, 681-702.	1.7	155
7	Robot Assisted Disassembly for the Recycling of Electric Vehicle Batteries. Procedia CIRP, 2015, 29, 716-721.	1.0	141
8	Eco-efficiency of manufacturing processes: A grinding case. CIRP Annals - Manufacturing Technology, 2012, 61, 59-62.	1.7	133
9	Simulation modelling of reverse logistics networks. International Journal of Production Economics, 2007, 106, 61-69.	5.1	120
10	An Investigation into Fixed Energy Consumption of Machine Tools. , 2011, , 268-273.		106
11	Energy Efficiency of Compressed Air Systems. Procedia CIRP, 2014, 15, 313-318.	1.0	99
12	Determining optimal process parameters to increase the eco-efficiency of grinding processes. Journal of Cleaner Production, 2014, 66, 644-654.	4.6	95
13	An Integrated Framework for Life Cycle Engineering. Procedia CIRP, 2017, 61, 2-9.	1.0	88
14	Absolute sustainability: Challenges to life cycle engineering. CIRP Annals - Manufacturing Technology, 2020, 69, 533-553.	1.7	86
15	Efficiency stagnation in global steel production urges joint supply- and demand-side mitigation efforts. Nature Communications, 2021, 12, 2066.	5.8	85
16	Eco-efficiency of disposable and reusable surgical instrumentsâ€"a scissors case. International Journal of Life Cycle Assessment, 2013, 18, 1137-1148.	2.2	83
17	Life cycle engineering of lightweight structures. CIRP Annals - Manufacturing Technology, 2018, 67, 651-672.	1.7	82
18	Application of cognitive robotics in disassembly of products. CIRP Annals - Manufacturing Technology, 2013, 62, 31-34.	1.7	76

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19	Methodology for Monitoring Manufacturing Environment by Using Wireless Sensor Networks (WSN) and the Internet of Things (IoT). Procedia CIRP, 2017, 61, 323-328.	1.0	71
20	Data mining in battery production chains towards multi-criterial quality prediction. CIRP Annals - Manufacturing Technology, 2019, 68, 463-466.	1.7	67
21	Life Cycle Assessment of Electric Vehicles â€“ A Framework to Consider Influencing Factors. Procedia CIRP, 2015, 29, 233-238.	1.0	65
22	Energy efficient machine tools. CIRP Annals - Manufacturing Technology, 2020, 69, 646-667.	1.7	64
23	Learning and revision in cognitive robotics disassembly automation. Robotics and Computer-Integrated Manufacturing, 2015, 34, 79-94.	6.1	60
24	Determining the Main Factors Influencing the Energy Consumption of Electric Vehicles in the Usage Phase. Procedia CIRP, 2016, 48, 352-357.	1.0	55
25	Selection of Lean and Six Sigma projects in industry. International Journal of Lean Six Sigma, 2013, 4, 4-16.	2.4	54
26	A methodology for customized prediction of energy consumption in manufacturing industries. International Journal of Precision Engineering and Manufacturing - Green Technology, 2015, 2, 163-172.	2.7	51
27	Life Cycle Cost Analysis of Electrical Vehicles in Australia. Procedia CIRP, 2017, 61, 767-772.	1.0	48
28	Economic and environmental value stream map (E²VSM) simulation for multi-product manufacturing systems. International Journal of Sustainable Engineering, 2016, 9, 354-362.	1.9	43
29	Cradle-to-cradle modeling of the future steel flow in China. Resources, Conservation and Recycling, 2017, 117, 45-57.	5.3	43
30	Comparative energy and greenhouse gas assessment of industrial rooftop-integrated PV and solar thermal collectors. Applied Energy, 2019, 241, 113-123.	5.1	42
31	Implementing Key Performance Indicators for Energy Efficiency in Manufacturing. Procedia CIRP, 2016, 57, 758-763.	1.0	40
32	Project portfolio selection in continuous improvement. International Journal of Operations and Production Management, 2011, 31, 1071-1088.	3.5	39
33	Characterising Energy Efficiency of Electrical Discharge Machining (EDM) Processes. Procedia CIRP, 2015, 29, 263-268.	1.0	39
34	The role of human factors in flexibility management: A survey. Human Factors and Ergonomics in Manufacturing, 2002, 12, 75-119.	1.4	38
35	Closed-loop systems to circular economy: A pathway to environmental sustainability?. CIRP Annals - Manufacturing Technology, 2022, 71, 505-528.	1.7	37
36	Dynamic life cycle quantification of metallic elements and their circularity, efficiency, and leakages. Journal of Cleaner Production, 2018, 174, 1492-1502.	4.6	36

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37	Finite Element Analysis and Validation of Cellular Structures. Procedia CIRP, 2016, 50, 94-99.	1.0	35
38	Integrated Material and Energy Flow Analysis towards Energy Efficient Manufacturing. Procedia CIRP, 2014, 15, 117-122.	1.0	34
39	Role of manufacturing towards achieving circular economy: The steel case. CIRP Annals - Manufacturing Technology, 2018, 67, 21-24.	1.7	33
40	The role of life cycle engineering (LCE) in meeting the sustainable development goals â€“ report from a consultation of LCE experts. Journal of Cleaner Production, 2019, 230, 378-382.	4.6	33
41	Target-driven Life Cycle Engineering: Staying within the Planetary Boundaries. Procedia CIRP, 2018, 69, 3-10.	1.0	32
42	A hierarchical framework for concurrent assessment of energy and water efficiency in manufacturing systems. Journal of Cleaner Production, 2016, 133, 88-98.	4.6	28
43	A technical and economic model for end-of-life (EOL) options of industrial products. International Journal of Environment and Sustainable Development, 2002, 1, 171.	0.2	27
44	Sustainability Cockpit: An integrated tool for continuous assessment and improvement of sustainability in manufacturing. CIRP Annals - Manufacturing Technology, 2016, 65, 5-8.	1.7	27
45	An integrated approach for improving energy efficiency of manufacturing process chains. International Journal of Sustainable Engineering, 2016, 9, 11-24.	1.9	27
46	LCA case study. Part 1: cradle-to-grave environmental footprint analysis of composites and stainless steel I-beams. International Journal of Life Cycle Assessment, 2013, 18, 208-217.	2.2	26
47	Economic and environmental assessment of product life cycle design:Âvolume and technology perspective. Journal of Cleaner Production, 2014, 75, 75-85.	4.6	26
48	Defining Circulation Factories â€“ A Pathway towards Factories of the Future. Procedia CIRP, 2015, 29, 627-632.	1.0	25
49	Hierarchical Modelling of Complex Material and Energy Flow in Manufacturing Systems. Procedia CIRP, 2015, 29, 92-97.	1.0	24
50	Life cycle assessment of cubic boron nitride grinding wheels. Journal of Cleaner Production, 2015, 107, 707-721.	4.6	21
51	Characterising energy and eco-efficiency of injection moulding processes. International Journal of Sustainable Engineering, 2015, 8, 55-65.	1.9	20
52	Renewable energy integration into factories: Real-time control of on-site energy systems. CIRP Annals - Manufacturing Technology, 2015, 64, 443-446.	1.7	19
53	A Generic Sankey Tool for Evaluating Energy Value Stream in Manufacturing Systems. Procedia CIRP, 2017, 61, 475-480.	1.0	19
54	Functional unit and product functionalityâ€”addressing increase in consumption and demand for functionality in sustainability assessment with LCA. International Journal of Life Cycle Assessment, 2017, 22, 1257-1265.	2.2	19

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55	System interaction, System of Systems, and environmental impact of products. CIRP Annals - Manufacturing Technology, 2019, 68, 17-20.	1.7	19
56	Long term impacts of international outsourcing of manufacturing on sustainability. CIRP Annals - Manufacturing Technology, 2014, 63, 41-44.	1.7	18
57	Material Criticality and Circular Economy: Necessity of Manufacturing Oriented Strategies. Procedia CIRP, 2019, 80, 667-672.	1.0	16
58	Analysis of the impact of technology changes on the economic and environmental influence of product life-cycle design. International Journal of Computer Integrated Manufacturing, 2014, 27, 422-433.	2.9	15
59	Stepwise approach to reduce the costs and environmental impacts of grinding processes. International Journal of Advanced Manufacturing Technology, 2014, 71, 919-931.	1.5	13
60	Rapid generation of uniform cellular structure by using prefabricated unit cells. International Journal of Computer Integrated Manufacturing, 2017, 30, 792-804.	2.9	13
61	An integrated methodology for assessing physical and technological life of products for reuse. International Journal of Sustainable Manufacturing, 2009, 1, 463.	0.3	12
62	Assessing the Impact of Embodied Water in Manufacturing Systems. Procedia CIRP, 2015, 29, 80-85.	1.0	11
63	A modelling framework to support design of complex engineering systems in early design stages. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2020, 31, 25-52.	1.2	9
64	Product portfolio analysis towards operationalising science-based targets. Procedia CIRP, 2020, 90, 377-382.	1.0	9
65	LCA case study. Part 2: environmental footprint and carbon tax of cradle-to-gate for composite and stainless steel I-beams. International Journal of Life Cycle Assessment, 2014, 19, 272-284.	2.2	8
66	A Modelling Framework to Design Executable Logical Architecture of Engineering Systems. Modern Applied Science, 2017, 11, 75.	0.4	8
67	An investigation into the role of PV industry in meeting the growing energy demand towards absolute sustainability. Procedia CIRP, 2020, 90, 383-387.	1.0	8
68	General plans for removing main components in cognitive robotic disassembly automation. , 2015, , .		7
69	Resource Efficiency and an Integral Framework for Performance Measurement. Sustainable Development, 2017, 25, 150-165.	6.9	7
70	Developing Unit Process Models for Predicting Energy Consumption in Industry: A Case of Extrusion Line. , 2013, , 147-152.		7
71	A Framework for Estimating Regional Footprint of Companies towards Absolute Sustainability. Procedia CIRP, 2019, 80, 446-451.	1.0	6
72	A Framework for Developing Portfolios of Improvements Projects in Manufacturing. Procedia CIRP, 2013, 7, 377-382.	1.0	5

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73	An Integrated Simulation Optimisation Decision Support Tool for Multi-Product Production Systems. Modern Applied Science, 2017, 11, 56.	0.4	5
74	Reactive modelling of on-site energy system components for real-time application. , 2014, , .		4
75	Development of SCRIS: A Knowledge Based System Tool for Assisting Organizations in Managing Supply Chain Risks. , 2010, , .		3
76	Monitoring and Control of Unstructured Manufacturing Big Data. , 2020, , .		3
77	Green paradox and the role of life cycle engineering. Procedia CIRP, 2020, 90, 159-164.	1.0	2
78	Large scale MTConnect data collection. , 2019, , .		2
79	Artificial Learning for Part Identification in Robotic Disassembly Through Automatic Rule Generation in an Ontology. IEEE Transactions on Automation Science and Engineering, 2023, 20, 296-309.	3.4	2
80	Outsourcing decisions and environmental sustainability. , 2013, , .		1
81	Concurrent scheduling of a job shop and microgrid to minimize energy costs under due date constraints. , 2017, , .		1
82	Energy Flow Analysis of an Alternative Fuel Production Facility in South Australia. Procedia CIRP, 2018, 69, 288-293.	1.0	1