

An LCA study of a primary aluminum supply chain

Journal of Cleaner Production

13, 607-618

DOI: [10.1016/j.jclepro.2003.12.022](https://doi.org/10.1016/j.jclepro.2003.12.022)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Environmental life cycle cost analysis of products. Management of Environmental Quality, 2001, 12, 260-276.	0.4	75
2	SUPPLY CHAIN MODELING: THE AGENT BASED APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 471-476.	0.4	0
3	Incorporation of reverse logistics model into in-plant recycling process: A case of aluminium industry. Resources, Conservation and Recycling, 2006, 49, 49-67.	5.3	56
4	Possibility of thickening of 1050 aluminum sheet by an incremental flattening process. Keikinzo/Journal of Japan Institute of Light Metals, 2007, 57, 234-239.	0.1	4
5	Green Engineering-Integration of Green Chemistry, Pollution Prevention, and Risk-Based Considerations. , 2007, , 210-270.		5
6	An approach to scenario analysis of the sustainability of an industrial sector applied to clothing and textiles in the UK. Journal of Cleaner Production, 2008, 16, 1234-1246.	4.6	118
7	From a literature review to a conceptual framework for sustainable supply chain management. Journal of Cleaner Production, 2008, 16, 1699-1710.	4.6	4,286
8	Life Cycle Assessment of Aluminium for Engineering Application. , 2008, , .		0
9	Greenhouse gas emissions and reduction potential of primary aluminum production in China. Science in China Series D: Earth Sciences, 2009, 52, 2161-2166.	0.9	51
10	Impacts of High-Pressure Diecasting Process Parameters on Greenhouse Gas Emissions. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2009, 40, 605-614.	1.0	6
11	Counting biodiversity waste in industrial eco-efficiency: fisheries case study. Journal of Cleaner Production, 2009, 17, 348-353.	4.6	24
12	Life cycle assessment of mine tailings management in Canada. Journal of Cleaner Production, 2009, 17, 471-479.	4.6	79
13	Spatial and temporal flows of China's forest resources: Development of a framework for evaluating resource efficiency. Ecological Economics, 2010, 69, 1405-1415.	2.9	30
14	Combined hydrogen production and power generation from aluminum combustion with water: Analysis of the concept. International Journal of Hydrogen Energy, 2010, 35, 1548-1559.	3.8	102
15	Potential for reducing GHG emissions and energy consumption from implementing the aluminum intensive vehicle fleet in China. Energy, 2010, 35, 4671-4678.	4.5	69
16	Performance Evaluation of PU Over-molded Thermoplastic Steering Wheel. , 2010, , .		4
17	Activity Based Approach to Manufacturing Systems Modeling. , 2010, , .		0
18	Nanofuel as a potential secondary energy carrier. Energy and Environmental Science, , 2010, 3, 591.	15.6	92

#	ARTICLE	IF	CITATIONS
19	Cradle-to-Gate Life Cycle Analysis Comparison of Stamped Aluminum and Injection Molded Polypropylene Vertical Axis Wind Turbine Blades. , 2011, , .		0
21	Recent progress and application of materials life cycle assessment in China. Progress in Natural Science: Materials International, 2011, 21, 1-11.	1.8	12
22	Supply chain management for sustainable products - insights from research applying mixed methodologies. Business Strategy and the Environment, 2011, 20, 471-484.	8.5	135
23	Addressing sustainability in the aluminum industry: a critical review of life cycle assessments. Journal of Cleaner Production, 2012, 35, 108-117.	4.6	164
24	Quantifying the Life Cycle Water Consumption of a Passenger Vehicle. , 2012, , .		5
25	A comparative life cycle assessment of process water treatment technologies at the Secunda industrial complex, South Africa. Water S A, 2012, 38, .	0.2	17
26	Energy and carbon emission payback analysis for energy-efficient retrofitting in buildingsâ€”Overhang shading option. Energy and Buildings, 2012, 44, 94-103.	3.1	74
27	Environmental and economic life cycle assessment of aluminum-silicon alloys production: a case study in China. Journal of Cleaner Production, 2012, 24, 11-19.	4.6	56
28	Decarbonising product supply chains: design and development of an integrated evidence-based decision support system â€” the supply chain environmental analysis tool (SCEnAT). International Journal of Production Research, 2013, 51, 2092-2109.	4.9	88
29	A review of modeling approaches for sustainable supply chain management. Decision Support Systems, 2013, 54, 1513-1520.	3.5	792
30	Sustainable Supply Chain - Supporting Tools. , 0, , .		15
31	Sustainable Analysis in the Product Development of Al-Metal Matrix Composites Automotive Component. Applied Mechanics and Materials, 0, 695, 32-35.	0.2	18
32	Green supply chain modelling: literature review. International Journal of Business Performance and Supply Chain Modelling, 2014, 6, 16.	0.2	22
33	Design of a sustainable packaging in the food sector by applying LCA. International Journal of Life Cycle Assessment, 2014, 19, 206-217.	2.2	26
34	Why Research in Sustainable Supply Chain Management Should Have no Future. Journal of Supply Chain Management, 2014, 50, 44-55.	7.2	582
35	Historical evolution of greenhouse gas emissions from aluminum production at a country level. Journal of Cleaner Production, 2014, 84, 540-549.	4.6	23
36	Streamlining the use of legislated reporting to move to 'life of project' sustainability reporting. International Journal of Mining and Mineral Engineering, 2014, 5, 19.	0.1	2
37	Measuring sustainable development in industrial minerals mining. International Journal of Mining and Mineral Engineering, 2014, 5, 4.	0.1	8

#	ARTICLE	IF	CITATIONS
38	Designing a Bi-objective Integrating Mathematical Model for Dynamic Sustainable Cellular Manufacturing Systems Considering Production Planning. Journal of Applied Mechanical Engineering, 2015, 04, .	0.0	0
39	Identification of Significant Impact of Silicon Foundry Sands Mining on LCIA. Sustainability, 2015, 7, 16408-16421.	1.6	8
40	Material flow cost accounting (MFCA)â€‘based approach for prioritisation of waste recovery. Journal of Cleaner Production, 2015, 107, 602-614.	4.6	35
41	Life cycle assessment of the desulfurisation flotation process to prevent acid rock drainage: A base metal case study. Minerals Engineering, 2015, 76, 126-134.	1.8	26
42	A systematic approach to select the optimal project portfolios for green manufacturing: An empirical study on TFT-LCD fabrication processes. , 2015, , .		2
43	Sustainable supply chain management: a modeling perspective. Annals of Operations Research, 2015, 229, 213-252.	2.6	169
44	Influence of Pre-strain on the Mechanical Properties of A6111-T4P Sheet with Bake Hardening. Acta Metallurgica Sinica (English Letters), 2015, 28, 678-683.	1.5	5
45	Assessing sustainability in the supply chain: A triple bottom line approach. Applied Mathematical Modelling, 2015, 39, 2882-2896.	2.2	133
46	Environmental modelling of aluminium recycling: a Life Cycle Assessment tool for sustainable metal management. Journal of Cleaner Production, 2015, 105, 357-370.	4.6	101
47	A review of decision-support tools and performance measurement and sustainable supply chain management. International Journal of Production Research, 2015, 53, 6473-6494.	4.9	174
48	Agent-based model for urban spatial structures and travel behaviour within the context of the sustainability dimensions. International Journal of the Built Environment and Asset Management, 2016, 2, 1.	0.1	0
49	Application Integrated Fuzzy TOPSIS based on LCA Results and the Nearest Weighted Approximation of FNs for Industrial Waste Management-Aluminum Industry: Arak-Iran. Indian Journal of Science and Technology, 2016, 9, .	0.5	4
50	Charting Policy Directions for Miningâ€™s Sustainability with Circular Economy. Recycling, 2016, 1, 219-231.	2.3	32
51	Impact of optimisation on idle time's fuel consumption and CO ₂ emissions in urban transportation. International Journal of Business Performance and Supply Chain Modelling, 2016, 8, 157.	0.2	4
52	Developing a Decision-Support System for Waste Management in Aluminum Production. Environmental Modeling and Assessment, 2016, 21, 803-817.	1.2	12
53	Environmental footprint of aluminum production in China. Journal of Cleaner Production, 2016, 133, 1242-1251.	4.6	126
54	Improvements in energy consumption and environmental impact by novel single shot melting process for casting. Journal of Cleaner Production, 2016, 137, 1532-1542.	4.6	44
55	A comprehensive multidimensional framework for assessing the performance of sustainable supply chains. Applied Mathematical Modelling, 2016, 40, 10153-10166.	2.2	38

#	ARTICLE	IF	CITATIONS
56	Environmental management in North American mining sector. <i>Environmental Science and Pollution Research</i> , 2016, 23, 167-179.	2.7	41
57	Incorporating lean thinking and life cycle assessment to reduce environmental impacts of plastic injection moulded products. <i>Journal of Cleaner Production</i> , 2017, 167, 759-775.	4.6	44
58	Green Engineering: Integration of Green Chemistry, Pollution Prevention, Risk-Based Considerations, and Life Cycle Analysis. , 2017, , 1921-1994.		3
59	Manufacturing and contract service networks: Composition, optimization and tradeoff analysis based on a reusable repository of performance models. , 2017, , .		4
60	Assessing energy intensity and retrofit opportunities for the aluminum industry: Lessons from Vietnam. <i>Resources, Conservation and Recycling</i> , 2018, 131, 235-246.	5.3	15
61	Logistics Business Transformation for Sustainability: Assessing the Role of the Lead Sustainability Service Provider (6PL). <i>Logistics</i> , 2018, 2, 25.	2.4	23
62	Carbon Footprint of Aluminum Production. , 2018, , 197-228.		23
64	Review of measures for improved energy efficiency in production-related processes in the aluminium industry – From electrolysis to recycling. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 93, 525-548.	8.2	71
65	Life-cycle assessment of solar integrated mining processes: A sustainable future. <i>Journal of Cleaner Production</i> , 2019, 236, 117610.	4.6	14
66	Supply chain sustainability assessment with Dempster-Shafer evidence theory: Implications in cleaner production. <i>Journal of Cleaner Production</i> , 2019, 237, 117771.	4.6	53
67	Environmental impact assessment of China's primary aluminum based on life cycle assessment. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 1784-1792.	1.7	48
68	A review on the impact of mining and mineral processing industries through life cycle assessment. <i>Journal of Cleaner Production</i> , 2019, 231, 1200-1217.	4.6	118
69	Life Cycle Assessment Contribution in the Product Development Process: Case Study of Wood Aluminum-Laminated Panel. <i>Sustainability</i> , 2019, 11, 2258.	1.6	13
70	Life cycle assessment of cobalt extraction process. <i>Journal of Sustainable Mining</i> , 2019, 18, 150-161.	0.1	102
71	How aluminum changed the world: A metallurgical revolution through technological and cultural perspectives. <i>Technological Forecasting and Social Change</i> , 2019, 143, 101-113.	6.2	95
72	Impacts of aluminum production: A cradle to gate investigation using life-cycle assessment. <i>Science of the Total Environment</i> , 2019, 663, 958-970.	3.9	67
73	Factory optima: a web-based system for composition and analysis of manufacturing service networks based on a reusable model repository. <i>International Journal of Computer Integrated Manufacturing</i> , 2019, 32, 206-224.	2.9	8
74	Life cycle assessment of niobium: A mining and production case study in Brazil. <i>Minerals Engineering</i> , 2019, 132, 275-283.	1.8	14

#	ARTICLE	IF	CITATIONS
75	Sustainability dimensions and PM2.5 in supply chain logistics. <i>Annals of Operations Research</i> , 2019, 275, 339-366.	2.6	20
76	Benchmarking of cleaner production in sand mould casting companies. <i>Management of Environmental Quality</i> , 2020, 31, 1407-1435.	2.2	4
77	Bibliometric research indicators for green supply chain modelling. <i>International Journal of Industrial and Systems Engineering</i> , 2020, 35, 314.	0.1	0
78	Assessing the future environmental impacts of copper production in China: Implications of the energy transition. <i>Journal of Cleaner Production</i> , 2020, 274, 122825.	4.6	58
79	From local to national metabolism: a review and a scale-up framework. <i>Ecosystem Health and Sustainability</i> , 2020, 6, .	1.5	8
80	Proposal of Package-to-Product Indicator for Carbon Footprint Assessment with Focus on the Czech Republic. <i>Sustainability</i> , 2020, 12, 3034.	1.6	15
81	Life cycle thinking: towards the sustainable management of resources in aluminium production. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2020, 5, 1.	0.6	1
82	Investigation of Alumina-Based Ceramic Production from Aluminum Black Dross. <i>Mining, Metallurgy and Exploration</i> , 2021, 38, 257-267.	0.4	7
83	Life Cycle Assessment of Solar Process Heating System Integrated in Mining Process. , 2021, , 141-168.		0
84	Environmental Impact Minimization via Production Planning for Aluminum Billet Molding Process. <i>Procedia CIRP</i> , 2021, 98, 169-174.	1.0	1
85	Environmental potentials of asphalt mixtures fabricated with red mud and fly ash. <i>Road Materials and Pavement Design</i> , 2021, 22, S690-S701.	2.0	9
86	Site-specific environmental impact assessment as a basis for supplier selections “exemplary application to aluminum. <i>Journal of Cleaner Production</i> , 2021, 290, 125703.	4.6	9
88	Environmental impact assessment of aluminium production using the life cycle assessment tool and multi-criteria analysis. <i>Annals of Environmental Science and Toxicology</i> , 2021, , 059-066.	0.6	1
89	Life cycle assessment on PERC solar modules. <i>Solar Energy Materials and Solar Cells</i> , 2021, 227, 111112.	3.0	17
90	Technological development pathway for a low-carbon primary aluminum industry in China. <i>Technological Forecasting and Social Change</i> , 2021, 173, 121052.	6.2	28
91	Life Cycle Assessment in Mining Industries. , 2021, , 15-59.		2
92	Green Engineering: Integration of Green Chemistry, Pollution Prevention, and Risk-Based Considerations. , 2012, , 155-199.		4
93	LIFE CYCLE ASSESSMENT OF SECONDARY EXTRUDED ALUMINUM PRODUCTION PROCESS IN INDUSTRIAL CITY OF ARAK. <i>Applied Ecology and Environmental Research</i> , 2016, 14, 125-135.	0.2	3

#	ARTICLE	IF	CITATIONS
94	The Influence of Alternative Fillers on the Adhesive Properties of Mastics Fabricated with Red Mud. <i>Materials</i> , 2020, 13, 484.	1.3	8
95	Life cycle assessment of aluminum in recycling end of life vehicles. , 0, , .		1
96	Extraction of Value-Added Minerals from Various Agricultural, Industrial and Domestic Wastes. <i>Materials</i> , 2021, 14, 6333.	1.3	17
97	Hazardous characteristics and transformation mechanism in hydrometallurgical disposing strategy of secondary aluminum dross. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106470.	3.3	19
99	Handlungsfeld Metallbereitstellung. , 2013, , 63-105.		0
100	Secondary Aluminum Alloys Processed by Semisolid Process for Automotive Application. <i>Minerals, Metals and Materials Series</i> , 2017, , 227-234.	0.3	0
101	INDUSTRIAL SEMISOLID CASTING PROCESS FOR SECONDARY ALUMINIUM ALLOYS FOR DECARBONISING LIGHTWEIGHT PARTS IN AUTOMOTIVE SECTOR. <i>MATEC Web of Conferences</i> , 2020, 326, 06007.	0.1	3
102	Comparative Life Cycle Assessment of Two Types of Truck Bumper Produced in the Algerian Auto Industry. <i>Journal of Resources and Ecology</i> , 2020, 11, 378.	0.2	0
103	Effect of Y2O3 doping on a gehlenite/magnesia-alumina spinel obtained by sintering secondary aluminium ash. <i>Journal of the Australian Ceramic Society</i> , 0, , 1.	1.1	0
104	Global carbon transfer and emissions of aluminum production and consumption. <i>Journal of Cleaner Production</i> , 2022, 362, 132513.	4.6	10
105	Supply chain modeling. , 2006, , 449-454.		0
106	Environmental impact of mining and beneficiation of copper sulphate mine based on life cycle assessment. <i>Environmental Science and Pollution Research</i> , 2022, 29, 87613-87627.	2.7	7
107	Enabling Sustainability in Glass Optics Manufacturing by Wafer Scale Molding. <i>Key Engineering Materials</i> , 0, 926, 2371-2381.	0.4	0
108	Harmonizing "Smart" Life Cycle Assessment in Manufacturing Companies: Literature Review and Preliminary Morphological Analysis. <i>IFAC-PapersOnLine</i> , 2022, 55, 1483-1490.	0.5	2
109	Exergoeconomic and exergoenvironmental analyses of a promising alumina extraction process from secondary aluminum dross in China. <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 109658.	3.3	2
110	Incorporating Environmental Impacts into Short-Term Mine Planning: A Literature Survey. <i>Mining</i> , 2023, 3, 163-175.	1.1	3
115	A geraçãŁo de energia no contexto da sustentabilidade. , 0, , 11-34.		0