

Publicity of Environmental Impact Assessment for Capacitor Production

Table III Comparison of Terrestrial Acidification Impact of the Main Product Stages for the -
"Comparative Life Cycle Assessment of Lithium-Ion Capacitors Production from Primary Ore and Recycled Minerals : Using LCA to balance environmental, economic and social performance in early phase research and development"

o The high proportion of tantalum in TECs results in an overall greater environmental impact compared to MLCCs. o Of the recovery processes considered, ...

The aim of this study is to compare the environmental impact due to the stages of production (from the raw materials supply to the assembly) and end-of-life (recycle or disposal of wastes) ...

The life cycle assessment (LCA) methodology which allows quantification of environmental performance of products and processes based on complete product life cycle was utilised to evaluate the environmental burdens associated with manufacturing a ...

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Environmental impact assessment of aluminum electrolytic capacitors in a product family from the manufacturer's perspective ... Aluminum electrolytic capacitors (AECs) are a type of indispensable electronic components in modern electronic and electrical products. ... a parametric LCI model for the product family was established by combining ...

Efficient assessment of the potential environmental impact on AECs with different specification parameters in the product family is essential to implement sustainable product development for the manufacturers. Methods A cradle-to-gate life cycle assessment (LCA) was performed to evaluate the environmental impact of 38 types of AECs

The UK alone accommodates substantial cluster of manufacturers and end users of functional materials devices such as capacitors, production of capacitors in the UK reached over EUR1 million in 2013 [2]. ... The work demonstrates the analytical capability of LCA for the environmental impact assessment of new device versus existing device across ...

The impact assessment method, ReCiPe2016 (midpoint, hierarchist perspective), was used to quantitatively calculate the potential environmental impacts of the AECs. Results and discussion Based on the generated LCIs of the AECs and ReCiPe2016, fossil depletion, climate change, and terrestrial ecotoxicity were identified

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as the key environmental impact categories in the ...

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The environmental impact assessment (EIA) community comprises a range of professionals engaged in all aspects of impact assessment practice (including but not limited to EIA, strategic environmental assessment, social and health impact assessment), and which might involve development of policies and procedures for EIA as well as teaching, training, and ...

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