研究資料

国際学術雑誌に掲載されたLCA研究の論文4

自動車、輸送、建築物、社会インフラ、家電製品、オフィス機器、家庭用品、衣類、織物の事例研究

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Papers related to LCA study which have been published in international scientific journals with peer review 4

- Case studies for automobile, transport, buildings & construction, infrastructure, home & office appliance, household commodity, clothes and textile

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Synopsis: In this paper, listed are the articles related to LCA case studies for automobile, transport, buildings & construction, infrastructure, home & office appliance, household commodity, clothes and textile, which have been published in International scientific journals with peer review during 1980-2006. Articles in 111 international scientific journals have been queried on "Life Cycle Assessment", "Life Cycle Analysis", "LCA", "LCI", "LCIA", etc. 244 articles in total are on list.

Key Words: Articles with peer review, case study, LCA, LCI, LCIA

本研究資料は、現在に至るまでに国際学術雑誌において発表された、査読付きLCAに関する研究論文のうち、LCA事例研究（自動車、輸送、建築物、社会インフラ、家電製品、オフィス機器、家庭用品、衣類、織物）の分野をまとめたものである。検索は、東京大学学内の電子ジャーナルにて検索できる範囲で、環境、エネルギー、材料、情報などに関連する111の学術雑誌を対象にした。詳細は、前号¹⁾をご覧ください。

Table 1に、自動車のLCA事例研究に関して検索された論文を示す。自動車の分野では、1989年以後、合計52本の論文が発表されている。

1989年にカリフォルニア大学デービス校のDeLuchiがInt. J. Hydrogen Energy に発表した論文は、水素自動車に関して、燃料貯蔵、性能、安全、環境への影響、ライフサイクルコストを評価したもので、50頁にわたる詳細な解析結果が示されている。環境への影響では、水素源として石炭などの化石燃料を用いた場合、再生可能エネルギーを利用して水の電気分解により水素を製造した場合の温暖化ガス排出量を、他の化石燃料を用いた交通機関と比較評価している。ライフサイクルコストに関しては、様々な不確実性を認識しながらも、将来の水素価格や水素自動車の性能の前提条件およびシナリオを明記した上で算出し、比較評価している。この論文は、ISOの規格作成が開始される前に発表されたものであるが、比較評価をするにあたり、前提条件や根拠、そして不確実性を詳細に明記した上で結論を導いており、学ぶことが多々ある論文である。

自動車に関しては、それ以後、多数の論文が発表されて

いる。電気自動車、植物由来の燃料を用いた自動車、燃料電池などの新技術と既存の化石燃料を用いた自動車との比較、その他、廃自動車の処理に関するもの等、この分野における様々な新技術にLCAが適用されてきている。

Table 2には、(自動車も含めた) 輸送のLCA事例研究に関する論文を示す。1996年から発表されており、LCAにおける騒音のアセスメントなど、この領域特有の研究が発表されている。

Table 3には建築物（付属システムを含む）の、Table 4には社会インフラ（廃水処理を含む）のLCAの事例研究を示す。なお、両者への分類は、著者の独自の判断によるもので、一部不適切な仕分けも見られるかもしれないが、ご容赦頂きたい。

建築物（付属システムを含む）の分野での発表は盛んであり、1980年から合計102本もの論文が発表されている。この分野では、建物の建設と使用の両側面を捉え、エネルギー消費量に基づいてライフサイクルコストを試算する研究が、環境を評価する事例よりもかなり早く行われている。

Table 5には家電機器およびオフィス機器に関する事例研究の論文を記す。これらの製品は、使用時のエネルギー消費が大きいものも多く、早いうちからライフサイクル的な考えに基づき、コストや環境を検討した事例が見られる。例えば、1980年代の初頭には、Turielらにより、主要家電製品のライフサイクルコストを検討した論文が発表されている。また、特定フロンの中全へ向けた国際的な取り組みを反映し、冷蔵庫やエアコンに使用されていた特定フロンを、他の冷媒により代替した場合の温暖化物質排出量な

ど環境への影響の比較評価が、1990年代の半ばより多く発表されている。

Table 6には家庭用品、衣類、織物に関する事例研究の論文を記した。この分野では、1990年代の半ばに、衣類、洗剤などの事例が多く発表されている。

今後も引き続き、他の領域に関しても、順次掲載していく予定である。なお、著者の見落としにより取り上げられていない論文がある可能性もある。お気づきの読者には、ご指摘いただければ幸いである。

引用文献

- 1) Matsuno Y.: Journal of Life Cycle Assessment, Japan, 2 (1), (2006), pp.91-100 (松野泰也：日本LCA学会誌, 2 (1), (2006), pp.91-100 [in Japanese])

Table 1. Papers related to LCA case studies for automobile which have been published in international scientific journals with peer review

Category	Authors	Title	Journal	Vol.	Year	Page
Automobile	Andreas Schäfer, John B. Heywood and Malcolm A. Weiss	Future fuel cell and internal combustion engine automobile technologies: A 25-year life cycle and fleet impact assessment	Energy		In Press	
Automobile	Sujit Das	Life cycle energy impacts of automotive liftgate inner	Resources, Conservation and Recycling	43(4)	2005	375-390
Automobile	Peder Fitch, Joyce Smith Cooper	Life cycle modeling for adaptive and variant design part 2: case study	Research in Engineering Design	15(4)	2005	229-241
Automobile	Lloyd, S. M.; Lave, L. B.; Matthews, H. S.;	Life Cycle Benefits of Using Nanotechnology To Stabilize Platinum-Group Metal Particles in Automotive Catalysts	Environmental Science & Technology	39(5)	2005	1384-1392
Automobile	Spatari, S.; Zhang, Y.; MacLean, H. L.	Life Cycle Assessment of Switchgrass- and Corn Stover-Derived Ethanol-Fueled Automobiles	Environmental Science & Technology	39(24)	2005	9750-9758
Automobile	Andrea Corti and Lidia Lombardi	End life tyres: Alternative final disposal processes compared by LCA	Energy	29(12-15)	2004	2089-2108
Automobile	Hyung Chul Kim, Marc H. Ross and Gregory A. Keoleian	Optimal fleet conversion policy from a life cycle perspective	Transportation Research Part D: Transport and Environment	9(3)	2004	229-249
Automobile	Joeri Van Mierlo, Jean-Marc Timmermans, Gaston Maggetto, Peter Van den Bossche, Sandrine Meyer, Walter Hecq, Leen Govaerts and Johan Verlaak	Environmental rating of vehicles with different alternative fuels and drive trains: a comparison of two approaches	Transportation Research Part D: Transport and Environment	9(5)	2004	387-399
Automobile	Schmidt, Wulf-Peter; Dahlqvist, Elisabeth; Finkbeiner, Matthias; Krinke, Stephan; Lazzari, Silvia; Oschmann, Dirk; Pichon, Sophie; Thiel, Christian	Life Cycle Assessment of Lightweight and End-of-Life Scenarios for Generic Compact Class Passenger Vehicles	The International Journal of Life Cycle Assessment	9(6)	2004	405-416
Automobile	Vanessa M. Smith and Gregory A. Keoleian	The Value of Remanufactured Engines: Life Cycle Environmental and Economic Perspectives	Journal of Industrial Ecology	8(1-2)	2004	193-221
Automobile	Ugaya, Cássia; Walter, Arnaldo	Life Cycle Inventory Analysis – A Case Study of Steel Used in Brazilian Automobiles	The International Journal of Life Cycle Assessment	9(6)	2004	365-370
Automobile	Castro, Maria; Remmerswaal, Johannes; Reuter, Markus	Life Cycle Impact Assessment of the Average Passenger Vehicle in the Netherlands	The International Journal of Life Cycle Assessment	8(5)	2003	297-304
Automobile	Hochschorner, Elisabeth; Finnveden, Göran	Evaluation of Two Simplified Life Cycle Assessment Methods	The International Journal of Life Cycle Assessment	8(3)	2003	119-128
Automobile	G. A. Keoleian and K. Kar	Elucidating complex design and management tradeoffs through life cycle design: air intake manifold demonstration project	Journal of Cleaner Production	11(1)	2003	61-77
Automobile	Kim, H. C.; Keoleian, G. A.; Grande, D. E.; Bean, J. C.;	Life Cycle Optimization of Automobile Replacement: Model and Application	Environmental Science & Technology	37(23)	2003	5407-5413
Automobile	Lloyd, S. M.; Lave, L. B.;	Life Cycle Economic and Environmental Implications of Using Nanocomposites in Automobiles	Environmental Science & Technology	37(15)	2003	3458-3466
Automobile	MacLean, H. L.; Lave, L. B.;	Life Cycle Assessment of Automobile/Fuel Options	Environmental Science & Technology	37(23)	2003	5445-5452
Automobile	Ari Rabl	Environmental benefits of natural gas for buses	Transportation Research Part D: Transport and Environment	7(6)	2003	391-405
Automobile	Dimitris Athanassiadis, Gun Lidestav and Tomas Nordfjell	Energy use and emissions due to the manufacture of a forwarder	Resources, Conservation and Recycling	34(3)	2002	149-160
Automobile	Contadini, J. Fernando; Moore, Robert; Mokhtarian, Patricia	Life Cycle Assessment of Fuel Cell Vehicles: A Methodology Example of Input Data Treatment for Future Technologies	The International Journal of Life Cycle Assessment	7(2)	2002	73-84
Automobile	Kwi Seong Jeong and Byeong Soo Oh	Fuel economy and life-cycle cost analysis of a fuel cell hybrid vehicle	Journal of Power Sources	105(1)	2002	58-65
Automobile	Kakudate, Keiji; Kajikawa, Yoshiaki; Adachi, Yoshihiro; Suzuki, Toshio	Calculation Model of CO ₂ Emissions for Japanese Passenger Cars	The International Journal of Life Cycle Assessment	7(2)	2002	85-93
Automobile	McCleese, David; LaPuma, Peter	Using Monte Carlo Simulation in Life Cycle Assessment for Electric and Internal Combustion Vehicles	The International Journal of Life Cycle Assessment	7(4)	2002	230-236
Automobile	Keisuke Nansai, Susumu Tohno, Motoki Kono and Mikio Kasahara	Effects of electric vehicles (EV) on environmental loads with consideration of regional differences of electric power generation and charging characteristic of EV users in Japan	Applied Energy	71(2)	2002	111-125
Automobile	Wathanyu Amatayakul and Olle Ramnäs	Life cycle assessment of a catalytic converter for passenger cars	Journal of Cleaner Production	9(5)	2001	395-403

Category	Authors	Title	Journal	Vol.	Year	Page
Automobile	Mark A. Delucchi and Timothy E. Lipman	An analysis of the retail and lifecycle cost of battery-powered electric vehicles	Transportation Research Part D: Transport and Environment	6(6)	2001	371-404
Automobile	Yoshitsugu Hayashi, Hirokazu Kato and Rene Val R. Teodoro	A model system for the assessment of the effects of car and fuel green taxes on CO2 emission	Transportation Research Part D: Transport and Environment	6(2)	2001	123-139
Automobile	Keisuke Nansai, Susumu Tohno, Motoki Kono, Mikio Kasahara and Yuichi Moriguchi	Life-cycle analysis of charging infrastructure for electric vehicles	Applied Energy	70(3)	2001	251-265
Automobile	Ingrid Råde and Björn A. Andersson	Requirement for metals of electric vehicle batteries	Journal of Power Sources	93(1-2)	2001	55-71
Automobile	Dimitris Athanassiadis	Energy consumption and exhaust emissions in mechanized timber harvesting operations in Sweden	Science of The Total Environment	255(1-3)	2000	135-143
Automobile	Pieter J. H. van Beukering and Marco A. Janssen	A Dynamic Integrated Analysis of Truck Tires in Western Europe	Journal of Industrial Ecology	4(2)	2000	93-115
Automobile	Frank Field, Randolph Kirchain and Joel Clark	Life Cycle Analysis and Temporal Distributions of Emissions: Developing a Fleet-based Analysis	Journal of Industrial Ecology	4(2)	2000	71-91
Automobile	Hayashi, Kentaro; Itsubo, Norihiro; Inaba, Atsushi	Development of Damage Function for Stratospheric Ozone Layer Depletion A Tool Towards the Improvement of the Quality of Life Cycle Impact Assessment	The International Journal of Life Cycle Assessment	5(5)	2000	265-272
Automobile	Kasai, Junichi	Experiences and Thoughts About Life Cycle Assessment in the Automotive Industry in Japan	The International Journal of Life Cycle Assessment	5(5)	2000	313-316
Automobile	Lave, L.; MacLean, H.; Hendrickson, C.; Lankey, R.	Life-Cycle Analysis of Alternative Automobile Fuel/Propulsion Technologies	Environmental Science & Technology	34(17)	2000	3598-3605
Automobile	Lee, Jaewon; Cho, Hye-jin; Choi, Bokmoon; Sung, Joonyong; Lee, Sungyoung; Shin, Minjong	Life Cycle Assessment of Tractors	The International Journal of Life Cycle Assessment	5(4)	2000	205-208
Automobile	Matsuhashi, Ryuji; Kudoh, Yuki; Yoshida, Yoshiaki; Ishitani, Hisashi; Yoshioka, Michifumi; Yoshioka, Kanji	Life Cycle of CO2-Emissions from Electric Vehicles and Gasoline Vehicles Utilizing a Process-Relational Model	The International Journal of Life Cycle Assessment	5(5)	2000	306-312
Automobile	Udo Mildemberger and Anshuman Khare	Planning for an environment-friendly car	Technovation	20(4)	2000	205-214
Automobile	Moriguchi, Yuichi; Terazono, Atsushi	A Simplified Model for Spatially Differentiated Impact Assessment of Air Emissions	The International Journal of Life Cycle Assessment	5(5)	2000	281-286
Automobile	Benoit Cushman-Roisin, Norman J. Rice III and Michael A. Moldaver	A Simulation Tool for Industrial Ecology: Creating a Board Game	Journal of Industrial Ecology	3(4)	1999	131-144
Automobile	John M. DeCicco and Martin Thomas	A Method for Green Rating of Automobiles	Journal of Industrial Ecology	3(1)	1999	55-76
Automobile	Karina Funk and Ari Rabl	Electric versus conventional vehicles: social costs and benefits in France	Transportation Research Part D: Transport and Environment	4(6)	1999	397-411
Automobile	K. Wötzel, R. Wirth, M. Flake	Life cycle studies on hemp fibre reinforced components and ABS for automotive parts	Die Angewandte Makromolekulare Chemie	272(1)	1999	121-127
Automobile	Junichi Kasai	Life cycle assessment, evaluation method for sustainable development	JSAE Review	20(3)	1999	387-394
Automobile	Schmidt, Wulf-Peter; Beyer, Hans-Martin	Environmental Considerations on Battery-Housing Recovery	The International Journal of Life Cycle Assessment	4(2)	1999	107-112
Automobile	Takashi Imaseki	Japanese automotive transportation sector's impact upon Global warming	Applied Energy	59(2-3)	1998	175-185
Automobile	Johnson, Eric P.; Banks, R. Eric; Sharratt, Paul N.	Automobile Air Conditioning: A Case Study of CFC Replacements Part II	The International Journal of Life Cycle Assessment	3(2)	1998	75-79
Automobile	Keoleian, Gregory; Spataro, Sabrina; Beal, Robb T.; Stephens, Robert D.; Williams, Ronald L.	Application of Life Cycle Inventory Analysis to Fuel Tank System Design	The International Journal of Life Cycle Assessment	3(1)	1998	18-28
Automobile	Fleischer, Günter; Schmidt, Wulf-Peter	Iterative Screening LCA in an Eco-Design Tool	The International Journal of Life Cycle Assessment	2(1)	1997	20-24
Automobile	Graedel, Thomas E.	Weighted Matrices as Product Life Cycle Assessment Tools	The International Journal of Life Cycle Assessment	1(2)	1996	85-89
Automobile	W. W. Marr and W. J. Walsh	Life-cycle cost evaluations of electric/hybrid vehicles	Energy Conversion and Management	33(9)	1992	849-853
Automobile	M. A. DeLuchi	Hydrogen vehicles: an evaluation of fuel storage, performance, safety, environmental impacts, and cost	International Journal of Hydrogen Energy	14(2)	1989	81-130

Table 2. Papers related to LCA case studies for transport which have been published in international scientific journals with peer review

Category	Authors	Title	Journal	Vol.	Year	Page
Transport	Cooper, Joyce Smith	Specifying Functional Units and Reference Flows for Comparable Alternatives	The International Journal of Life Cycle Assessment	8(6)	2003	337-349
Transport	Maged Dessouky, Mansour Rahimi and Merrill Weidner	Jointly optimizing cost, service, and environmental performance in demand-responsive transit scheduling	Transportation Research Part D: Transport and Environment	8(6)	2003	433-465
Transport	Hirokazu Kato, Yoshitsugu Hayashi, Kosuke Tanaka	A basic study with feasibility of applying clean development mechanism to the transport projects	Mitigation and Adaptation Strategies for Global Change	8(3)	2003	281-291
Transport	M. Kohler and T. Künniger	Emissions of polycyclic aromatic hydrocarbons (PAH) from creosoted railroad ties and their relevance for life cycle assessment (LCA)	Holz als Roh- und Werkstoff	61(2)	2003	117-124

Category	Authors	Title	Journal	Vol.	Year	Page
Transport	Rozycki, Christian; Koeser, Heinz; Schwarz, Henning	Ecology Profile of the German High-speed Rail Passenger Transport System, ICE	The International Journal of Life Cycle Assessment	8(2)	2003	83-91
Transport	O. Andersen	Transport of fish from Norway: energy analysis using industrial ecology as the framework	Journal of Cleaner Production	10(6)	2002	581-588
Transport	Mirjan E. Bouwman and Henri C. Moll	Environmental analyses of land transportation systems in The Netherlands	Transportation Research Part D: Transport and Environment	7(5)	2002	331-345
Transport	Manfred Lenzen and Graham Treloar	Differential Convergence of Life-Cycle Inventories toward Upstream Production Layers: Implications for Life-Cycle Assessment	Journal of Industrial Ecology	6(3-4)	2002	137-160
Transport	H Scott Matthews and Chris T. Hendrickson	The Economic and Environmental Implications of Centralized Stock Keeping	Journal of Industrial Ecology	6(2)	2002	71-81
Transport	Bárcaga-Castellanos, Luis; Neufert, Ronald; Markert, Bernd	Life Cycle Assessment for the Implementation of Emission Control Measures for the Freight Traffic with Heavy Duty Vehicles in Germany (Phase 3)	The International Journal of Life Cycle Assessment	6(6)	2001	356-362
Transport	Bárcaga-Castellanos, Luis; Neufert, Ronald; Markert, Bernd	Life Cycle Assessment for the Implementation of Emission Control Measures for the Freight Traffic with Heavy Duty Vehicles in Germany (Phase 2)	The International Journal of Life Cycle Assessment	6(5)	2001	285-292
Transport	Bárcaga-Castellanos, Luis; Neufert, Ronald; Markert, Bernd	Life Cycle Assessment for the Implementation of Emission Control Measures for the Freight Traffic with Heavy Duty Vehicles in Germany (Phase 1)	The International Journal of Life Cycle Assessment	6(4)	2001	231-242
Transport	Francis M. Vanek and Edward K. Morlok	Improving the energy efficiency of freight in the United States through commodity-based analysis: justification and implementation	Transportation Research Part D: Transport and Environment	5(1)	2000	11-29
Transport	Lafleche, Vincent; Sacchetto, Francesco	Noise Assessment in LCA - A Methodology Attempt: A Case Study with Various Means of Transportation on a Set Trip	The International Journal of Life Cycle Assessment	2(2)	1997	111-115
Transport	Elin Eriksson, Magnus Blinge and Göran Lövgren	Life cycle assessment of the road transport sector	Science of The Total Environment	189-190	1996	69-76
Transport	Jørgensen, Anne-Mette; Ywema, Peter E.; Frees, Niels; Exner, Stephan; Bracke, Rolf	Transportation in LCA A Comparative Evaluation of the Importance of Transport in Four LCAs	The International Journal of Life Cycle Assessment	1(4)	1996	218-220

Table 3. Papers related to LCA case studies for buildings & construction which have been published in international scientific journals with peer review

Category	Authors	Title	Journal	Vol.	Year	Page
Buildings & Construction	Mehmet Azmi Aktacir, Orhan Büyükalaca and Tuncay Yilmaz	Life-cycle cost analysis for constant-air-volume and variable-air-volume air-conditioning systems	Applied Energy		In Press	
Buildings & Construction	Angela Arpke and Kelly Strong	A comparison of life cycle cost analyses for a typical college dormitory using subsidized versus full-cost pricing of water	Ecological Economics		In Press	
Buildings & Construction	M. Asif, T. Muneer and R. Kelley	Life cycle assessment: A case study of a dwelling home in Scotland	Building and Environment		In press	
Buildings & Construction	G. Assefa, M. Glaumann, T. Malmqvist, B. Kindembe, M. Hult, U. Myhr and O. Eriksson	Environmental assessment of building properties—Where natural and social sciences meet: The case of EcoEffect	Building and Environment		In press	
Buildings & Construction	Ali Bolattürk	Determination of optimum insulation thickness for building walls with respect to various fuels and climate zones in Turkey	Applied Thermal Engineering		In Press	
Buildings & Construction	Zhen Chen, Derek Clements-Croome, Ju Hong, Heng Li and Qian Xu	A multicriteria lifespan energy efficiency approach to intelligent building assessment	Energy and Buildings		In Press	
Buildings & Construction	S. Citherlet and T. Defaux	Energy and environmental comparison of three variants of a family house during its whole life span	Building and Environment		In press	
Buildings & Construction	Ö. Altan Dombaycı, Mustafa Gölcü and Yasar Pancar	Optimization of insulation thickness for external walls using different energy-sources	Applied Energy		In Press	
Buildings & Construction	María Jesús González and Justo García Navarro	Assessment of the decrease of CO2 emissions in the construction field through the selection of materials: Practical case study of three houses of low environmental impact	Building and Environment		In press	
Buildings & Construction	Christopher Koroneos and George Kottas	Energy consumption modeling analysis and environmental impact assessment of model house in Thessaloniki—Greece	Building and Environment		In press	
Buildings & Construction	Zhuguo Li	A new life cycle impact assessment approach for buildings	Building and Environment		In press	
Buildings & Construction	Lollini, Barozzi, Fasano, Meroni and Zinzi	Optimisation of opaque components of the building envelope. Energy, economic and environmental issues	Building and Environment		In press	
Buildings & Construction	F.W. Yu and K.T. Chan	Economic benefits of improved condenser features for air-cooled chillers serving an air-conditioned hotel	Applied Thermal Engineering		In Press	
Buildings & Construction	Tomoko Hirano, Shinsuke Kato, Shuzo Murakami, Toshiharu Ikaga, Yasuyuki Shiraishi and Hitomi Uehara	A study on a porous residential building model in hot and humid regions part 2—reducing the cooling load by component-scale voids and the CO2 emission reduction effect of the building model	Building and Environment	41(1)	2006	33-44
Buildings & Construction	Paula Sinivuori and Arto Saari	MIPS analysis of natural resource consumption in two university buildings	Building and Environment	41(5)	2006	657-668
Buildings & Construction	Zhihui Zhang, Xing Wu, Xiaomin Yang and Yimin Zhu	BEPAS—a life cycle building environmental performance assessment model	Building and Environment	41(5)	2006	669-675
Buildings & Construction	Althaus, Hans-Jörg; Kellenberger, Daniel; Doka, Gabor; Künniger, Tina	Manufacturing and Disposal of Building Materials and Inventorying Infrastructure in ecoinvent	The International Journal of Life Cycle Assessment	10(1)	2005	35-42
Buildings & Construction	Huei-Jiunn Chen, David W. P. Wang and Sih-Li Chen	Optimization of an ice-storage air conditioning system using dynamic programming method	Applied Thermal Engineering	25(2-3)	2005	461-472
Buildings & Construction	Sema Ergonul	Economic analysis of a shopping center in seismic zone	Building and Environment	40(11)	2005	1526-1532
Buildings & Construction	Y. F. Li and W. K. Chow	Optimum insulation-thickness for thermal and freezing protection	Applied Energy	80(1)	2005	23-33
Buildings & Construction	Ardeshtir Mahdavi and Shukri El-Bellahy	Effort and effectiveness considerations in computational design evaluation: a case study	Building and Environment	40(12)	2005	1651-1664

Category	Authors	Title	Journal	Vol.	Year	Page
Buildings & Construction	G.F. Menzies and J.R. Wherrett	Windows in the workplace: examining issues of environmental sustainability and occupant comfort in the selection of multi-glazed windows	Energy and Buildings	37(6)	2005	623-630
Buildings & Construction	K.W. Mui and W.T. Chan	Application of the Building Environmental Performance Model (BEPM) in Hong Kong	Energy and Buildings	37(8)	2005	897-909
Buildings & Construction	Mikko Nyman and Carey J. Simonson	Life cycle assessment of residential ventilation units in a cold climate	Building and Environment	40(1)	2005	15-27
Buildings & Construction	Ann Kristin Petersen and Birger Solberg	Environmental and economic impacts of substitution between wood products and alternative materials: a review of micro-level analyses from Norway and Sweden	Forest Policy and Economics	7(3)	2005	249-259
Buildings & Construction	S. Pushkar, R. Becker and A. Katz	A methodology for design of environmentally optimal buildings by variable grouping	Building and Environment	40(8)	2005	1126-1139
Buildings & Construction	Schuurmans, Agnes; Rouwette, Rob; Vonk, Nico; Broers, Joris; Rijnsburger, Hester; Pietersen, Hans	LCA of Finer Sand in Concrete	The International Journal of Life Cycle Assessment	10(2)	2005	131-135
Buildings & Construction	Weimin Wang, Radu Zmeureanu and Hugues Rivard	Applying multi-objective genetic algorithms in green building design optimization	Building and Environment	40(11)	2005	1512-1525
Buildings & Construction	Xing Wu, Zhihui Zhang and Yongmei Chen	Study of the environmental impacts based on the "green tax"—applied to several types of building materials	Building and Environment	40(2)	2005	227-237
Buildings & Construction	M. Zimmermann, H.-J. Althaus and A. Haas	Benchmarks for sustainable construction: A contribution to develop a standard	Energy and Buildings	37(11)	2005	1147-1157
Buildings & Construction	C. Balocco, S. Papeschi, G. Grazzini and R. Basosi	Using exergy to analyze the sustainability of an urban area	Ecological Economics	48(2)	2004	231-244
Buildings & Construction	Karin Gäbel, Peter Forsberg and Anne-Marie Tillman	The design and building of a lifecycle-based process model for simulating environmental performance, product performance and cost in cement manufacturing	Journal of Cleaner Production	12(1)	2004	77-93
Buildings & Construction	O. A. B. Hassan	Application of value-focused thinking on the environmental selection of wall structures	Journal of Environmental Management	70(2)	2004	181-187
Buildings & Construction	Katarína Heikkilä	Environmental impact assessment using a weighting method for alternative air-conditioning systems	Building and Environment	39(10)	2004	1133-1140
Buildings & Construction	Min Liu, Y. K. Wen and Scott A. Burns	Life cycle cost oriented seismic design optimization of steel moment frame structures with risk-taking preference	Engineering Structures	26(10)	2004	1407-1421
Buildings & Construction	Nalanie Mithraratne and Brenda Vale	Life cycle analysis model for New Zealand houses	Building and Environment	39(4)	2004	483-492
Buildings & Construction	Matjaz Prek	Environmental impact and life cycle assessment of heating and air conditioning systems, a simplified case study	Energy and Buildings	36(10)	2004	1021-1027
Buildings & Construction	Schmidt, Anders; Jensen, Allan Astrup; Clausen, Anders; Kamstrup, Ole; Postlethwaite, Dennis	A Comparative Life Cycle Assessment of Building Insulation Products made of Stone Wool, Paper Wool and Flax. Part 2: Comparative Assessment	The International Journal of Life Cycle Assessment	9(2)	2004	122-129
Buildings & Construction	Schmidt, Anders; Jensen, Allan Astrup; Clausen, Anders; Kamstrup, Ole; Postlethwaite, Dennis	A Comparative Life Cycle Assessment of Building Insulation Products made of Stone Wool, Paper Wool and Flax. Part 1: Background, Goal and Scope, Life Cycle Inventory, Impact Assessment and Interpretation	The International Journal of Life Cycle Assessment	9(1)	2004	53-66
Buildings & Construction	G. Q. Zhang, L. Wang, L. Liu and Z. Wang	Thermoeconomic optimization of small size central air conditioner	Applied Thermal Engineering	24(4)	2004	471-485
Buildings & Construction	Khaled A. Al-Sallal	Comparison between polystyrene and fiberglass roof insulation in warm and cold climates	Renewable Energy	28(4)	2003	603-611
Buildings & Construction	A. P. Arena and C. de Rosa	Life cycle assessment of energy and environmental implications of the implementation of conservation technologies in school buildings in Mendoza—Argentina	Building and Environment	38(2)	2003	359-368
Buildings & Construction	Kemal Çomaklı and Bedri Yüksel	Optimum insulation thickness of external walls for energy saving	Applied Thermal Engineering	23(4)	2003	473-479
Buildings & Construction	Martin Erlandsson and Mathias Borg	Generic LCA-methodology applicable for buildings, constructions and operation services—today practice and development needs	Building and Environment	38(7)	2003	919-938
Buildings & Construction	Hochschorner, Elisabeth; Finnveden, Göran	A Building Sector Related Procedure to Assess the Relevance of the Usage Phase	The International Journal of Life Cycle Assessment	8(3)	2003	142-150
Buildings & Construction	Huijbregts, M. A. J.; Gilijsse, W.; Ragas, A. M. J.; Reijnders, L.	Evaluating Uncertainty in Environmental Life-Cycle Assessment. A Case Study Comparing Two Insulation Options for a Dutch One-Family Dwelling	Environmental Science & Technology	37(11)	2003	2600-2608
Buildings & Construction	Anders Klang, Per-Åke Vikman and Helge Brattebo	Sustainable management of demolition waste—an integrated model for the evaluation of environmental, economic and social aspects	Resources, Conservation and Recycling	38(4)	2003	317-334
Buildings & Construction	W. L. Lee, F. W. H. Yik and P. Jones	A strategy for prioritising interactive measures for enhancing energy efficiency of air-conditioned buildings	Energy	28(8)	2003	877-893
Buildings & Construction	P. Van Der Lugt, A. Van Den Dobbelsteen and R. Abrahams	Bamboo as a building material alternative for Western Europe? A study of the environmental performance, costs and bottlenecks of the use of bamboo (products) in Western Europe	Journal of Bamboo and Rattan	2(3)	2003	205-223
Buildings & Construction	Paulsen, Jacob	The Maintenance of Linoleum and PVC Floor Coverings in Sweden. The Significance of the Usage Phase in an LCA	The International Journal of Life Cycle Assessment	8(6)	2003	357-364
Buildings & Construction	Rehan Sadiq, Tahir Husain, Brian Veitch and Neil Bose	Evaluation of Generic Types of Drilling Fluid Using a Risk-Based Analytic Hierarchy Process	Environmental Management	32(6)	2003	778-787
Buildings & Construction	Chris Scheuer, Gregory A. Keoleian and Peter Reppe	Life cycle energy and environmental performance of a new university building: modeling challenges and design implications	Energy and Buildings	35(10)	2003	1049-1064
Buildings & Construction	JongHo Yoon, Euy-Joon Lee and Moncef Krarti	Optimization of Korean crop storage insulation systems	Energy Conversion and Management	44(7)	2003	1145-1162
Buildings & Construction	René Altherr and Jean-Bernard Gay	A low environmental impact anodic facade	Building and Environment	37(12)	2002	1409-1419
Buildings & Construction	G. A. Florides, S. A. Tassou, S. A. Kalogirou and L. C. Wrobel	Measures used to lower building energy consumption and their cost effectiveness	Applied Energy	73(3-4)	2002	299-328
Buildings & Construction	Gorrée, Marieke; Guinée, Jeroen; Huppes, Gjalit; Oers, Laurant van	Environmental Life Cycle Assessment of Linoleum	The International Journal of Life Cycle Assessment	7(3)	2002	158-166
Buildings & Construction	Ann Kristin Petersen and Birger Solberg	Greenhouse gas emissions, life-cycle inventory and cost-efficiency of using laminated wood instead of steel construction.: Case: beams at Gardermoen airport	Environmental Science & Policy	5(2)	2002	169-182

Category	Authors	Title	Journal	Vol.	Year	Page
Buildings & Construction	Borg, Mathias; Paulsen, Jacob; Trinius, Wolfram	Proposal of a Method for Allocation in Building-Related Environmental LCA Based on Economic Parameters	The International Journal of Life Cycle Assessment	6(4)	2001	219-230
Buildings & Construction	T. Y. Chen, J. Burnett and C. K. Chau	Analysis of embodied energy use in the residential building of Hong Kong	Energy	26(4)	2001	323-340
Buildings & Construction	Cheng-Li Cheng	A physical study of plumbing life cycle in apartment houses	Building and Environment	36(9)	2001	1049-1056
Buildings & Construction	Deakin, Mark; Curwell, Steve; Lombardi, Patrizia	BEQUEST: The Framework and Directory of Assessment Methods	The International Journal of Life Cycle Assessment	6(6)	2001	373-383
Buildings & Construction	Joseph C. Lam and Wilco W. Chan	Life cycle energy cost analysis of heat pump application for hotel swimming pools	Energy Conversion and Management	42(11)	2001	1299-1306
Buildings & Construction	Lippiatt, Barbara C.; Boyles, Amy S.	Using BEES to Select Cost-Effective Green Products	The International Journal of Life Cycle Assessment	6(2)	2001	76-80
Buildings & Construction	B. L. P. Peuportier	Life cycle assessment applied to the comparative evaluation of single family houses in the French context	Energy and Buildings	33(5)	2001	443-450
Buildings & Construction	G. C. Bakos and N. F. Tsagas	Technology, thermal analysis and economic evaluation of a sunspace located in northern Greece	Energy and Buildings	31(3)	2000	261-266
Buildings & Construction	Pål Börjesson and Leif Gustavsson	Greenhouse gas balances in building construction: wood versus concrete from life-cycle and forest land-use perspectives	Energy Policy	28(9)	2000	575-588
Buildings & Construction	Stéphane Citherlet, Francesca Di Guglielmo and Jean-Bernard Gay	Window and advanced glazing systems life cycle assessment	Energy and Buildings	32(3)	2000	225-234
Buildings & Construction	G. A. Florides, S. A. Kalogirou, S. A. Tassou and L. C. Wrobel	Modeling of the modern houses of Cyprus and energy consumption analysis	Energy	25(10)	2000	915-937
Buildings & Construction	Stig-Inge Gustafsson	Optimisation and simulation of building energy systems	Applied Thermal Engineering	20(18)	2000	1731-1741
Buildings & Construction	Åsa Jönsson	Tools and methods for environmental assessment of building products—methodological analysis of six selected approaches	Building and Environment	35(3)	2000	223-238
Buildings & Construction	Åsa Jönsson	Is it feasible to address indoor climate issues in LCA?	Environmental Impact Assessment Review	20(2)	2000	241-259
Buildings & Construction	Yurika Nishioka and John D. Spengler	Saving Energy versus Saving Materials: Life-Cycle Inventory Analysis of Housing in a Cold Climate Region of Japan	Journal of Industrial Ecology	4(1)	2000	119 - 135
Buildings & Construction	Afif Hasan	Optimizing insulation thickness for buildings using life cycle cost	Applied Energy	63(2)	1999	115-124
Buildings & Construction	Lars Hvam	A procedure for building product models	Robotics and Computer-Integrated Manufacturing	15(1)	1999	77-87
Buildings & Construction	Jönsson, Åsa	Including the Use Phase in LCA of Floor Coverings	The International Journal of Life Cycle Assessment	4(6)	1999	321-328
Buildings & Construction	L. Reijnders and A. van Roekel	Comprehensiveness and adequacy of tools for the environmental improvement of buildings	Journal of Cleaner Production	7(3)	1999	221-225
Buildings & Construction	J. Anderson	Development of an environmental research strategy in Sweden	Journal of Constructional Steel Research	46(1-3)	1998	13-14
Buildings & Construction	K. J. Eaton and A. Amato	A comparative life cycle assessment of steel and concrete framed office buildings	Journal of Constructional Steel Research	46(1-3)	1998	286-287
Buildings & Construction	Stig-Inge Gustafsson	Sensitivity analysis of building energy retrofits	Applied Energy	61(1)	1998	13-23
Buildings & Construction	Jönsson, Åsa; Björklund, Thomas; Tillman, Anne-Marie	LCA of Concrete and Steel Building Frames	The International Journal of Life Cycle Assessment	3(4)	1998	216-224
Buildings & Construction	A. Mahdavi and R. Ries	Towards computational eco-analysis of building designs	Computers & Structures	67(5)	1998	375-387
Buildings & Construction	S. C. Sekhar and Kenneth Lim Cher Toon	On the study of energy performance and life cycle cost of smart window	Energy and Buildings	28(3)	1998	307-316
Buildings & Construction	J. F. Le Téno and B. Mareschal	An interval version of PROMETHEE for the comparison of building products' design with ill-defined data on environmental quality	European Journal of Operational Research	109(2)	1998	522-529
Buildings & Construction	G. Weir and T. Muneer	Energy and environmental impact analysis of double-glazed windows	Energy Conversion and Management	39(3-4)	1998	243-256
Buildings & Construction	Y. K. Wen and M. Shinozuka	Cost-effectiveness in active structural control	Engineering Structures	20(3)	1998	216-221
Buildings & Construction	J. Widman	Environmental impact assessment of steel bridges	Journal of Constructional Steel Research	46(1-3)	1998	291-293
Buildings & Construction	Martin Erlandsson, Per Levin and Lars Myhre	Energy and environmental consequences of an additional wall insulation of a dwelling	Building and Environment	32(2)	1997	129-136
Buildings & Construction	Günther, Albrecht; Langowski, Horst-Christian	Life Cycle Assessment Study on Resilient Floor Coverings	The International Journal of Life Cycle Assessment	2(2)	1997	73-80
Buildings & Construction	Å. Jönsson, A-M. Tillman and T. Svensson	Life cycle assessment of flooring materials: Case study	Building and Environment	32(3)	1997	245-255
Buildings & Construction	Andrew Myer and Chet Chaffee	Life-cycle analysis for design of the Sydney Olympic Stadium	Renewable Energy	10(2-3)	1997	169-172
Buildings & Construction	Santosh Rana, Ram Chandra, S. P. Singh and M. S. Sodha	Substitution of energy efficient devices for cooking and lighting in rural areas of Madhya Pradesh	Energy Conversion and Management	82(2)	1997	187-199
Buildings & Construction	Becky Ziebro, Deborah I. Nelson, and Jess W. Everett	Environmental Impact Evaluation and Life-Cycle Cost Analysis of Cooling Tower Technologies	Journal of Environmental Systems	25(3)	1996-1997	
Buildings & Construction	J. L. Chevalier and J. F. Le Téno	Requirements for an LCA-based model for the evaluation of the environmental quality of building products	Building and Environment	31(5)	1996	487-491
Buildings & Construction	PW Griffiths, PC Eames, SNG Lo and B Norton	Energy and environmental life-cycle analysis of advanced windows	Renewable Energy	8(1-4)	1996	219-222
Buildings & Construction	Stig-Inge Gustafsson, Susanne Andersson and Björn G. Karlsson	Factorial design for energy-system models	Energy	19(8)	1994	905-910
Buildings & Construction	P. G. Rousseau and E. H. Mathews	Needs and trends in integrated building and HVAC thermal design tools	Building and Environment	28(4)	1993	439-452
Buildings & Construction	Stig-Inge Gustafsson and Björn G. Karlsson	Life-cycle cost minimization considering retrofits in multi-family residences	Energy and Buildings	14(1)	1989	9-17

Category	Authors	Title	Journal	Vol.	Year	Page
Buildings & Construction	T. Rose, W. J. Batty and S. D. Probert	Comparing alternative strategies for achieving thermal comfort in pensioners' homes	Applied Energy	32(2)	1989	101-116
Buildings & Construction	S. M. Fereig and M. A. Younis	Effects of energy conservation measures the life cycle cost of Kuwaiti residential buildings	Energy and Buildings	8(1)	1985	71-78
Buildings & Construction	Frederick C. Winkelmann and Metin Lokmanhekim	Sun-control options in a high-rise office building	Energy and Buildings	8(1)	1985	1-13
Buildings & Construction	A. H. Rosenfeld, W. G. Colborne, C. D. Hollowell, S. P. Meyers and L. J. SchipperB. AdamsonB. HidemarkH. RossN. MilbankM. J. UyttenbroeckG. Olive	Building Energy use Compilation and Analysis (BECA): An international comparison and critical review. Part A: New residential buildings	Energy and Buildings	3(4)	1981	315-333
Buildings & Construction	Anthony V. Sebald and Fritz Langenbacher	A statistical measurement of the heating season effectiveness of ceiling insulation in San Diego	Energy	5(1)	1980	87-100

Table 4. Papers related to LCA case studies for infrastructure which have been published in international scientific journals with peer review

Category	Authors	Title	Journal	Vol.	Year	Page
Infrastructure	M. B. Beck	Vulnerability of water quality in intensively developing urban watersheds	Environmental Modelling & Software	20(4)	2005	381-400
Infrastructure	Ulrika Palme, Margareta Lundin, Anne-Marie Tillman and Sverker Molander	Sustainable development indicators for wastewater systems – researchers and indicator users in a co-operative case study	Resources, Conservation and Recycling	43(3)	2005	293-311
Infrastructure	Allen C. Estes, Dan M. Frangopol and Stuart D. Foltz	Updating reliability of steel miter gates on locks and dams using visual inspection results	Engineering Structures	26(3)	2004	319-333
Infrastructure	Lundie, S.; Peters, G. M.; Beavis, P. C.	Life Cycle Assessment for Sustainable Metropolitan Water Systems Planning	Environmental Science & Technology	38(13)	2004	3465-3473
Infrastructure	M. Lundin, M. Olofsson, G. J. Pettersson and H. Zetterlund	Environmental and economic assessment of sewage sludge handling options	Resources, Conservation and Recycling	41(4)	2004	255-278
Infrastructure	Magdalena Svanström, Morgan Fröling, Michael Modell, William A. Peters and Jefferson Tester	Environmental assessment of supercritical water oxidation of sewage sludge	Resources, Conservation and Recycling	41(4)	2004	321-338
Infrastructure	Y. Itoh and T. Kitagawa	Using CO2 emission quantities in bridge lifecycle analysis	Engineering Structures	25(5)	2003	565-577
Infrastructure	Gerald Rebitzer, David Hunkeler, Olivier Joliet	LCC - The economic pillar of sustainability: Methodology and application to wastewater treatment	Environmental Progress	22(4)	2003	241-249
Infrastructure	K. P. Tsarakis, D. D. Mara and A. N. Angelakis	Application of Cost Criteria for Selection of Municipal Wastewater Treatment Systems	Water, Air, & Soil Pollution	142(1-4)	2003	187-210
Infrastructure	Margareta Lundin and Gregory M. Morrison	A life cycle assessment based procedure for development of environmental sustainability indicators for urban water systems	Urban Water	4(2)	2002	145-152
Infrastructure	Ross, Stuart; Evans, David; Webber, Michael	LCA Application to Russian Conditions	The International Journal of Life Cycle Assessment	7(6)	2002	349-357
Infrastructure	Young-Jin Suh and Patrick Rousseaux	An LCA of alternative wastewater sludge treatment scenarios	Resources, Conservation and Recycling	35(3)	2002	191-200
Infrastructure	Núria Vidal, Manel Poch, Eugènia Martí, Ignasi Rodríguez-Roda	Evaluation of the environmental implications to include structural changes in a wastewater treatment plant	Journal of Chemical Technology & Biotechnology	77(11)	2002	1206-1211
Infrastructure	Iriyama Strauss, Keiko; Wiedemann, Michael	An LCA Study on Sludge Retreatment Processes in Japan	The International Journal of Life Cycle Assessment	5(5)	2000	291-294
Infrastructure	Oddvar G. Lindholm and Terje Nordeide	Relevance of some criteria for sustainability in a project for disconnecting of storm runoff	Environmental Impact Assessment Review	20(3)	2000	413-423
Infrastructure	Lundin, M.; Bengtsson, M.; Molander, S	Life Cycle Assessment of Wastewater Systems: Influence of System Boundaries and Scale on Calculated Environmental Loads	Environmental Science & Technology	34(1)	2000	180-186
Infrastructure	Hans Brix	How 'green' are aquaculture, constructed wetlands and conventional wastewater treatment systems?	Water Science and Technology	40(3)	1999	45-50
Infrastructure	F. J. Dennison, A. Azapagic, R. Clift and J. S. Colbourne	Life cycle assessment: comparing strategic options for the mains infrastructure - Part I	Water Science and Technology	39(10-11)	1999	315-319
Infrastructure	Adriaan R. Mels, Arjen F. van Nieuwenhuijzen, Jaap H. J. M. van der Graaf, Bram Klapwijk, Jaap de Koning and Wim H. Rulkens	Sustainability criteria as a tool in the development of new sewage treatment methods	Water Science and Technology	39(5)	1999	243-250
Infrastructure	F. J. Dennison, A. Azapagic, R. Clift and J. S. Colbourne	Assessing management options for wastewater treatment works in the context of life cycle assessment	Water Science and Technology	38(11)	1998	23-30
Infrastructure	Tillman, Anne-Marie; Svingby, Mikael; Lundström, Henrik	Life Cycle Assessment of Municipal Waste Water Systems	The International Journal of Life Cycle Assessment	3(3)	1998	145-157
Infrastructure	P. J. Roeleveld, A. Klapwijk, P. G. Eggels, W. H. Rulkens and W. van Starckenburg	Sustainability of municipal wastewater treatment	Water Science and Technology	35(10)	1997	221-228

Table 5 Papers related to LCA case studies for home & office appliance which have been published in international scientific journals with peer review

Category	Authors	Title	Journal	Vol.	Year	Page
Home & Office appliance	Wolfram Scharnhorst, Hans-Jörg Althaus, Mischa Classen, Olivier Joliet and Lorenz M. Hilty	The end of life treatment of second generation mobile phone networks: Strategies to reduce the environmental impact	Environmental Impact Assessment Review	25(5)	2005	540-566
Home & Office appliance	Andrae, Anders; Zou, Gang; Liu, Johan	LCA of Electronic Products - An environmental assessment of Gallium Arsenide Monolithic Microwave Integrated Circuit - System-In-a-Package (SIP) Switch Product	The International Journal of Life Cycle Assessment	9(1)	2004	45-52

Category	Authors	Title	Journal	Vol.	Year	Page
Home & Office appliance	Paul Blowers, Monica Titus	Use of life-cycle inventory as a screening tool for environmental performance: Supercritical carbon dioxide in the semiconductor industry	Environmental Progress	23(4)	2004	284-290
Home & Office appliance	Christopher Ciantar and Mark Hadfield	A study of tribological durability with associated environmental impacts of a domestic refrigerator	Materials & Design	25(4)	2004	331-341
Home & Office appliance	Williams, E.	Energy Intensity of Computer Manufacturing: Hybrid Assessment Combining Process and Economic Input-Output Methods	Environmental Science & Technology	38(22)	2004	6166-6174
Home & Office appliance	A. Ahmadi, B. H. Williamson, T. L. Theis and S. E. Powers	Life-cycle inventory of toner produced for xerographic processes	Journal of Cleaner Production	11(5)	2003	573-582
Home & Office appliance	Hula, A.; Jalali, K.; Hamza, K.; Skerlos, S. J.; Saitou, K.	Multi-Criteria Decision-Making for Optimization of Product Disassembly under Multiple Situations	Environmental Science & Technology	37(23)	2003	5303-5313
Home & Office appliance	Murphy, C. F.; Kenig, G. A.; Allen, D. T.; Laurent, J.-P.; Dyer, D. E.	Development of Parametric Material, Energy, and Emission Inventories for Wafer Fabrication in the Semiconductor Industry	Environmental Science & Technology	37(23)	2003	5373-5382
Home & Office appliance	Jong-Soo Hwang, Young-Chai Heo, Kun-Mo Lee	Environment-cost analysis diagram of a waste product for the identification and prioritisation of product elements requiring improvement and its application to a waste refrigerator	The Journal of Sustainable Product Design	2(1-2)	2002	43-52
Home & Office appliance	H. Scott Matthews	Use versus manufacture life cycle electricity and environmental impacts for computer tape drives	Resources, Conservation and Recycling	36(3)	2002	187-196
Home & Office appliance	Margaret Simonson, Claes Tullin and Håkan Strippel	Fire-LCA study of TV sets with V0 and HB enclosure material	Chemosphere	46(5)	2002	737-744
Home & Office appliance	Clinton J. Andrews and Mathew Swain	Institutional factors affecting life-cycle impacts of microcomputers	Resources, Conservation and Recycling	31(2)	2001	171-188
Home & Office appliance	Kim, Seungdo; Hwang, Taeyoun; Overcash, Michael R.	Life Cycle Assessment Study of Color Computer Monitor	The International Journal of Life Cycle Assessment	6(1)	2001	35-44
Home & Office appliance	Yasuo Kondo, Ko-suke Hirai, Ryota Kawamoto and Fumio Obata	A discussion on the resource circulation strategy of the refrigerator	Resources, Conservation and Recycling	33(3)	2001	153-165
Home & Office appliance	KUN MO LEE, PILJU PARK	Application of Life-Cycle Assessment to Type III Environmental Declarations	Environmental Management	28(4)	2001	533-546
Home & Office appliance	Dr Nicola Morelli	Technical innovation and resource efficiency. A model for Australian household appliances	The Journal of Sustainable Product Design	1(1)	2001	3-17
Home & Office appliance	Brøbech Legarth, Jens; Åkesson, Stellan; Ashkin, Alena; Imrell, Anne-Marie	A Screening Level Life Cycle Assessment of the ABB EU 2000 Air Handling Unit	The International Journal of Life Cycle Assessment	5(1)	2000	47-58
Home & Office appliance	Ciantar, Christopher; Hadfield, Mark	An Environmental Evaluation of Mechanical Systems Using Environmentally Acceptable Refrigerants	The International Journal of Life Cycle Assessment	5(4)	2000	209-220
Home & Office appliance	Yanagitani, Kazuta; Kawahara, Katsumi	LCA Study of Air Conditioners with an Alternative Refrigerant	The International Journal of Life Cycle Assessment	5(5)	2000	287-290
Home & Office appliance	Lundie, Sven; Huppel, Gjalte	Environmental Assessment of Products The Ranges of the Societal Preferences Method	The International Journal of Life Cycle Assessment	4(1)	1999	7-15
Home & Office appliance	S. K. Ong, T. H. Koh and A. Y. C. Nee	Development of a semi-quantitative pre-LCA tool	Journal of Materials Processing Technology	89-90	1999	574-582
Home & Office appliance	Takayoshi Ueno, Toru Shiino, Hiroshi Onishi	Evaluation of electronic components in life cycle assessment	Journal of Material Cycles and Waste Management	1(1)	1999	25-32
Home & Office appliance	N. I. Caspersen and A. Sørensen	Improvements of products by means of lifecycle assessment: high pressure cleaners	Journal of Cleaner Production	6(3-4)	1998	371-380
Home & Office appliance	Huybrechts, Diane; Vancolen, Dominiek; Burtin, Jean; Janssens, Eric	Wet Processed and Dry Phototools in the Manufacturing of Printed Circuit Boards A Comparative LCA	The International Journal of Life Cycle Assessment	3(1)	1998	29-35
Home & Office appliance	Pfeifer, Rolf P.	Comparison Between Filament Lamps and Compact Fluorescent Lamps	The International Journal of Life Cycle Assessment	1(1)	1996	8-14
Home & Office appliance	Archie McCulloch	Life cycle analysis to minimise global warming impact	Renewable Energy	5(5-8)	1994	1262-1269
Home & Office appliance	Isaac Turiel, Henry Estrada and Mark Levine	Life-cycle cost analysis of major appliances	Energy	6(9)	1981	945-970

Table 6. Papers related to LCA case studies for household commodity, clothes, textile which have been published in international scientific journals with peer review

Category	Authors	Title	Journal	Vol.	Year	Page
Household commodity, Clothes, Textile	María D. Bovea and Rosario Vidal	Materials selection for sustainable product design: a case study of wood based furniture eco-design	Materials & Design	25(2)	2004	111-116
Household commodity, Clothes, Textile	Pant, Rana; Hoof, Gert van; Schowanek, Diederik; Feijtel, Tom C. J.; Koning, Arjan de; Hauschild, Michael; Pennington, David; Olsen, Stig; Rosenbaum, Ralph	Comparison between Three Different LCIA Methods for Aquatic Ecotoxicity and a Product Environmental Risk Assessment - Insights from a Detergent Case Study within OMNIITOX	The International Journal of Life Cycle Assessment	9(5)	2004	295-306
Household commodity, Clothes, Textile	Rivela, B.; Moreira, M. T.; Bornhardt, C.; Mendez, R.; Feijoo, G.	Life Cycle Assessment as a Tool for the Environmental Improvement of the Tannery Industry in Developing Countries	Environmental Science & Technology	38(6)	2004	1901-1909
Household commodity, Clothes, Textile	Segars, J. W.; Bradfield, S. L.; Wright, J. J.; Realf, M. J.	EcoWorx, Green Engineering Principles in Practice	Environmental Science & Technology	37(23)	2003	5269-5277
Household commodity, Clothes, Textile	Milà i Canals, Llorenç; Domènech, Xavier; Rieradevall, Joan; Puig, Rita; Fullana i Palmer, Pere	Use of Life Cycle Assessment in the Procedure for the Establishment of Environmental Criteria in the Catalan Eco-label of Leather	The International Journal of Life Cycle Assessment	7(1)	2002	39-46

Category	Authors	Title	Journal	Vol.	Year	Page
Household commodity, Clothes, Textile	Giuseppe M. Nicoletti, Bruno Notarnicola and Giuseppe Tassielli	Comparative Life Cycle Assessment of flooring materials: ceramic versus marble tiles	Journal of Cleaner Production	10(3)	2002	283-296
Household commodity, Clothes, Textile	Saouter, Erwan; Hoof, Gert van; Feijtel, Tom C. J.; Owens, J. William	The Effect of Compact Formulations on the Environmental Profile of Northern European Granular Laundry Detergents, Part II: Life Cycle Assessment	The International Journal of Life Cycle Assessment	7(1)	2002	27-38
Household commodity, Clothes, Textile	Saouter, Erwan; Hoof, Gert van	A Database for the Life-Cycle Assessment of Procter & Gamble Laundry Detergents	The International Journal of Life Cycle Assessment	7(2)	2002	103-114
Household commodity, Clothes, Textile	Francis M. Vanek	Growth of exports from developing countries: implications for freight trends and ecological impact	Futures	33(5)	2001	393-406
Household commodity, Clothes, Textile	Saouter, Erwan; Hoof, Gert van; Pittinger, Charles A.; Feijtel, Tom C. J.	The Effect of Compact Formulations on the Environmental Profile of Northern European Granular Laundry Detergents, Part I: Environmental Risk Assessment	The International Journal of Life Cycle Assessment	6(6)	2001	363-372
Household commodity, Clothes, Textile	R. P. V. Kerstholt, C. M. Ree and H. C. Moll	Cotton: a flow cycle to exploit	Industrial Crops and Products	11(2-3)	2000	173-178
Household commodity, Clothes, Textile	M. K. Patel, A. Theiß and E. Worrell	Surfactant production and use in Germany: resource requirements and CO2 emissions	Resources, Conservation and Recycling	25(1)	1999	61-78
Household commodity, Clothes, Textile	Fawer, Matthias; Postlethwaite, Dennis; Klüppel, Hans-Jürgen	Life Cycle Inventory for the Production of Zeolite A for Detergents	The International Journal of Life Cycle Assessment	3(2)	1998	71-74
Household commodity, Clothes, Textile	Milà i Canals, Llorenç; Domènech, Xavier; Rieradevall, Joan; Fullana i Palmer, Pere; Puig, Rita	Application of Life Cycle Assessment to Footwear	The International Journal of Life Cycle Assessment	3(4)	1998	203-208
Household commodity, Clothes, Textile	Viotti, Paolo; Cavalle, Luciano	Application of LCI: Environmental Profile of LAB and Detergent Alcohols	The International Journal of Life Cycle Assessment	2(2)	1997	116-120
Household commodity, Clothes, Textile	Klöpffer, Walter; Sundström, Gustav; Grief Bhammer, Rainer	The Peer Reviewing Process - A Case Study European Life Cycle Inventory for Surfactant Production	The International Journal of Life Cycle Assessment	1(2)	1996	113-115
Household commodity, Clothes, Textile	Owens, J. William	LCA Impact Assessment Case Study Using a Consumer Product	The International Journal of Life Cycle Assessment	1(4)	1996	209-217
Household commodity, Clothes, Textile	G. K. Morse, R. Perry and J. N. Lester	The life-cycle environmental impact of key detergent builder systems in the EU	Science of The Total Environment	166(1-3)	1995	179-192
Household commodity, Clothes, Textile	José Potting and Kornelis Blok	Life-cycle assessment of four types of floor covering	Journal of Cleaner Production	3(4)	1995	201-213
Household commodity, Clothes, Textile	G. G. Smith and R. H. Barker	Life cycle analysis of a polyester garment	Resources, Conservation and Recycling	14(3-4)	1995	233-249