

Special Issue

Life Cycle Assessment in Sustainable Products Development

Message from the Guest Editors

While most studies concentrate on the methodology of LCA, this Special Issue aims to present LCA-associated studies from a specific viewpoint of product development applications. Approach to the application of LCA in product development are presented with step-by-step instructions, starting from concept, part, and process design all the way to decision making. LCA is applicable in several forms, including impact assessment, selection, classification, and decision support. The challenges with regard to the four main steps of LCA (namely, goal and scope definition, life cycle inventory, life cycle impact analysis, and interpretation) are within the scope of this issue. In particular, the main topics that this Special Issue shall cover are:

- Environmental assessment of agri-industrial products, biofuels, and energy systems;
- Life cycle cost analysis of agri-industrial products, biofuels, and energy systems;
- Greenhouse gas emissions, water and ecological footprint of agri-industrial products, biofuels, and energy systems;
- Integrating exergy and economic and environmental parameters to offer a novel sustainability index;
- New approaches in LCA of sustainable products.

Guest Editors

Dr. Ashkan Nabavi-Pelesaraei

Department of Mechanical Engineering of Biosystems, Razi University, Kermanshah, Iran

Dr. Farshad Soheilifard

Department of Technology, Management and Economics, Technical University of Denmark, Kongens Lyngby, Denmark

Deadline for manuscript submissions

closed (30 November 2022)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/101380

Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



[mdpi.com/journal/
sustainability](https://mdpi.com/journal/sustainability)



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)