

## Special Issue

# Design and Optimisation of Supply Chain Networks

### Message from the Guest Editors

Supply chain network design (SCND) involves strategic decisions, such as determining the number, location and capacity of facilities. These decisions play an important role in supply chain management since any changes in them have a significant impact on the network configuration and material flow between facilities. Therefore, there are adequate reasons to consider the triple bottom line—economic, environmental and social pillars—in SCND simultaneously. Most existing studies have focused on economic and environmental objectives. However, social objectives have not been investigated adequately in SCND, since the mathematical modelling of such objective functions is challenging. Additionally, analysis of the fourth industrial revolution's impacts on SCND for sustainability has received little attention. Industry 4.0 technologies, such as IoT, big data, and cloud computing, can enable the creation of digital ecosystems that set the tone for the foreseeable sustainable supply chain practices. This Special Issue seeks to collate recent original research and literature review papers dealing with the design and optimization of sustainable supply chain networks.

---

### Guest Editors

Dr. Babak Mohamadpour Tosarkani

Dr. Hamid Afshari

Dr. Alejandro Vital-Soto

Dr. Jessica Olivares-Aguila

---

### Deadline for manuscript submissions

closed (28 May 2022)



## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/78436](https://mdpi.com/si/78436)

*Sustainability*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto: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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,  
Columbus, OH 43210, USA

---

## 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, CAPlus / SciFinder, and other databases.

### Journal Rank:

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