

## Special Issue

# 5G, Energy Efficiency and Sustainability

### Message from the Guest Editors

5th Generation (5G) mobile network has been commercially deployed in the last 3-5 years in selected regions in the world. By employing advanced wireless communication technologies such as multiple-input-multiple-output (MIMO) and small-cell network level configurations, 5G technologies can dramatically improve the energy saving of consumer communications, industrial operation, metropolitan network, residential or commercial buildings, and even achieve city-level energy optimization. Advanced research in Internet-of-Things (IoT), smart buildings, smart city, smart grid mostly rely on 5G networks to realize such energy or power saving. 5G can also contribute to human health and well-being. With a global aging population in the next decades, healthcare systems will be under both capacity and capability tests. More and more such initiatives are forming to bridge 5G infrastructures and the sustainable future of our planet, as this Special Issue invites you to join our discussions.

---

### Guest Editors

Dr. William X. Wei

Dr. Mike Henry

Dr. Lianyong Feng

Dr. Eric Wang

Dr. Haibo Hu

Dr. Hadi Chapardar

---

### Deadline for manuscript submissions

closed (1 December 2021)



## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/79046](https://mdpi.com/si/79046)

*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)