



Aspirations within Interdisciplinary STEM/STEAM Education under the Education for Sustainable Development (ESD)

Guest Editors:

Prof. Dr. Tzu-Hua Wang

Department of Education and
Learning Technology, National
Tsing Hua University, Hsinchu,
Taiwan

tzuhuwang@mx.nthu.edu.tw

Dr. Yang Teck Kenneth LIM

National Institute of Education,
Nanyang Technological
University, Singapore

kenneth.lim@nie.edu.sg

Prof. Dr. Jari Lavonen

Department of Education,
University of Helsinki, Helsinki,
Finland

Jari.Lavonen@helsinki.fi

Deadline for manuscript
submissions:

28 February 2022

Message from the Guest Editors

STEM/STEAM education facilitates meaningful learning for students by promoting the interdisciplinary integration of knowledge and skills among the STEAM fields. Moreover, it enhances their ability to solve complex industry problems, and their capacity to better the lives of all beings on Earth. STEM/STEAM education has now received attention from educational institutions, parents, society, and industries all over the world.

This Special Issue aims to prompt deeper investigations on the theory and practice of STEM/STEAM education and to find ways to implement high-quality STEM/STEAM education from the perspective of SDGs, ESD, and the 2030 Learning compass. Papers concerning the following topics all fall under the scope of this Special Issue:

- STEM/STEAM curriculum development
- STEM/STEAM teaching models
- Competency-based teaching in STEM/STEAM education
- Preservice and in-service teacher training and certification of STEM/STEAM education
- Evaluation of teachers' competences of STEM/STEAM teaching
- Evaluation of students' STEM/STEAM competencies and learning outcomes
- STEM/STEAM curriculum leadership
- Policymaking for STEM/STEAM education





an Open Access Journal by MDPI

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

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.

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](#), [Inspec](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and many [other databases](#).

Journal Rank: [JCR](#) - Q2 (*Environmental Sciences*) / [CiteScore](#) - Q1 (*Geography, Planning and Development*)

Contact Us

Sustainability
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

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