## **Special Issue**

# Sustainable Urban-Industrial Symbiosis

## Message from the Guest Editors

In 1989, a cluster of companies from different industries and a community that were intensively sharing resources was uncovered in Denmark. Afterward, it became known as a "regional industrial symbiosis (IS) at Kalundborg". The most commonly cited definition for IS was proposed in 2000, which was defined as "a physical exchange of materials, energy, water, and/or byproducts to promote resource efficiency between traditionally separate industries with the intent of promoting collective competitive advantage". Urban symbiosis (US) is an extension of IS was proposed by Van Berkel and his colleagues in 2009, defined as "the use of byproducts (wastes) from cities (or urban areas) as alternative raw materials or energy sources in industrial operations". Both IS and US focus on waste recycling and symbiosis network that can offer apparent benefits to the whole society by saving virgin materials and/or reducing environmental emissions and even greenhouse gas emissions reductions. This Special Issue aims to highlight such a topic to collect the studies associated with sustainable development of urbanindustrial symbiosis.

#### **Guest Editors**

Dr. Zhe Liu

Dr. Minoru FUJII

Dr. Liang Dong

## Deadline for manuscript submissions

closed (15 July 2022)



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

mdpi.com/journal/ sustainability





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### Editor-in-Chief

Prof. Dr. Steve W. Lyon

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

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