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## Sustainable Urban-Industrial Symbiosis

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### **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 by-products 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 urban–industrial symbiosis.

Deadline for manuscript  
submissions:

**30 November 2021**



[mdpi.com/si/83592](https://mdpi.com/si/83592)

# Special Issue



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