



Operations for Sustainable Shipping and Port Management

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Deadline for manuscript
submissions:

closed (1 October 2023)

Message from the Guest Editors

Air emissions from the maritime industry is a significant concern recently. Frequent shipping and port activities generate considerable air emissions, including carbon dioxide (CO₂) and sulphur oxides (SO_x). As the dominant greenhouse gas (GHG), CO₂ emissions may cause extreme weather and change ecosystems. The extensive emissions of SO_x may also lead to environmental and health problems, such as lung cancer. Therefore, controlling maritime transport emissions and promoting green shipping and port management is essential.

To reduce air pollutants from maritime activities, various countermeasures are adopted by governments and organizations to meet 2050 emission goals. Also multiple types of green technologies (e.g., electrification, energy storage system, and shore power), as well as clean energies (e.g., liquefied natural gas, solar energy, and biofuel), are also promoted in the maritime transportation industry to reduce exhaust emissions. Most green measures are effective in reducing emissions, while the development of green transportation is still in its infancy.





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Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (*Geography, Planning and Development*)

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