



## Low Carbon Maritime Transportation: Pathways and Challenges

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Deadline for manuscript  
submissions:

**closed (31 May 2022)**

### Message from the Guest Editors

Maritime transportation, as the most highly efficient mode of freight transport for global trade, plays a critical role in promoting the lasting prosperity of human society and the sustainable development of our planet. With regards to this, the international maritime community has set levels of ambition to achieve low carbon or even zero carbon shipping in near future. Potential technological pathways and effective regulatory framework depend on the common efforts of the academia and the maritime industry. In particular, interdisciplinary solutions and broad consensus are extremely indispensable.

This Special Issue in Atmosphere welcomes the submission of original research articles, reviews, and short communications targeting the potential solutions and challenges in relation to shipping decarbonization. We invite manuscripts focusing on topics including but not limited to alternative energy sources for ships, alternative marine fuels, novel engine technologies, technologies for ship energy efficiency improvement, optimization on supply chain & logistics, emissions trading scheme for shipping, regulations and legislations, global or regional strategy and policies.





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## Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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**Journal Rank:** CiteScore - Q2 (*Environmental Science (miscellaneous)*)

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