



Contribution of Carbon Dioxide from Water Bodies to the Atmosphere

Guest Editor:

Dr. Cesar Andrade

Research Institute for
Volcanology and Risks
Assessment, University of the
Azores, 9500-321 Azores, Portugal

Deadline for manuscript
submissions:

closed (31 May 2023)

Message from the Guest Editor

Dear Colleagues,

Currently, these ecosystems and the biodiversity they support are among the most threatened: And one of the reasons is the high release of CO₂ into the atmosphere.

Large lakes, wetlands, rivers as well as springs, in some places contribute significantly to the high levels of carbon dioxide emitted.

The objective of this special issue is to evaluate and quantify the contribution of these water systems in the final CO₂ output, differentiating its origins and impacts in the different regions and geological environments inserted. The international scientific community has been giving a growing importance to the study of lakes, inserted in regions with active volcanism, but sometimes forgetting the other existing water resources (springs, rivers...), as well as other wetlands located in areas without active volcanism.

Thus, as carbon dioxide (CO₂) is one of the main gases released in volcanic regions, the quantification of CO₂ flux from water bodies, as well as the identification of preferential degassing zones, is an emerging issue and with an impact in terms of climate change.





water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](#)