Special Issue

Frontiers in Marine Carbon Cycle

Message from the Guest Editor

This Special Issue of *Energies* invites papers broadly related to understanding, monitoring, and predicting the global carbon cycle in a world of rapidly changing environmental factors. Topics of interest for publication include, but are not limited to, the following:

- Functioning of the physical and biological carbon pumps both currently and under projected climate scenarios
- Microbially mediated carbon cycling (microbial loop, viral shunt) and sequestration (microbial carbon pump)
- “Blue carbon” in coastal (sea grasses, mangroves, and salt marshes) and open ocean ecosystems
- Novel technologies and approaches for monitoring the marine carbon cycle (e.g., remote sensing, deep-ocean observation systems).
- Ecosystem modelling
- Climate change mitigation (e.g., carbon capture storage and utilisation, geoengineering, restoration and conservation of habitats highly efficient in “blue carbon” storage)
- Effects of marine resources exploitation on carbon cycling
- Hydrothermal energy transfer and its impact on the ocean carbon cycle

Guest Editor

Dr. Evina Gontikaki
School of Environmental Engineering, Technical University of Crete, 73100 Chania, Greece

Deadline for manuscript submissions

closed (30 June 2022)

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

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About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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