



Material–Energy–Water–Carbon Nexus and Sustainable Resource Management

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Message from the Guest Editor

The increase in global population and economic activities has been accompanied with an increase in the demand for resources, and consequently, increases in environmental, economic, and social pressure. The issues of resource sustainability have recently been addressed in the United Nations Sustainable Development Goals (SDGs), which are either related directly to resources or require the adequate supply of resources to be achieved. Resources are interlinked in several ways, and broadly correlated with climate change.

This Special Issue addresses the interactions across resources, the modelling approaches used in their analyses, and sustainable management, and welcomes original research articles and reviews, including (but not limited to): modelling approaches for the global energy–mineral–water nexus; sustainable resource management under the material–energy–water–carbon nexus and its implications for Sustainable Development Goals; the implications of resource nexuses for climate change and carbon neutrality; the impacts of material restrictions on energy system transitions; the role of the circular economy; and the geopolitics of energy transitions.





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