

Special Issue

New Developments in Renewable Energy Sources and Sustainable Manufacturing

Message from the Guest Editor

The total world capacity of renewable energies sources grew by 300GW in 2022. To slow down the consumption of fossil fuels, several countries are developing renewable energy sources. Iceland, Costa Rica, Sweden, Norway, and Uruguay produce almost 100% of their electricity from renewable sources. China is the world leader in wind and solar energy production. It plans to produce a third of its energy from renewable sources by 2025. Renewable sources produced 49% of Germany energy in 2022. The USA produced 20% of their electricity in 2022 and aims for a significant increased generation by 2040. There are seven recognized forms of renewable energy: solar, wind, hydropower, geothermal, marine, bioenergy, and hydrogen-fuel cells.

The goal of this Special Issue is to present studies in all these energy areas. The scope of this issue includes basic concepts and new developments, as well as economic evaluations. New concepts combining more than one renewable energy source will also be accepted. Moreover, new developments in the sustainable production of chemicals using renewable energy sources are particularly sought.

Guest Editor

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Deadline for manuscript submissions

closed (31 October 2024)



Sustainability

an Open Access Journal
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Impact Factor 3.3
CiteScore 7.7



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