
Editorial

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Global warming is a major environmental problem that has severe effects including but not limited to rising sea level, hurricanes, habitat damage of species, and changes in water supply and draught. Researchers and scientists have been working together to mitigate the negative impacts of global warming, and different methods have been proposed in this regard. These methods mainly include increasing the efficiency of current energy systems and using alternative energy systems to decrease the amount of greenhouse gases emitted to the atmosphere.

This special issue contains 14 papers, which were selected from the 7th Global Conference on Global Warming-2018 in Izmir, Turkey, which was held on 24–28 June 2018. This conference was a multi-disciplinary international conference in all areas of global warming, including its evidence, causes, and impact. This conference aimed to provide a forum for the exchange of technical information, dissemination of high-quality research results, presentation of new policy and scientific developments, and promoting future priorities for more sustainable development and energy security. Several talks were delivered to present the recent advances in these areas. After the successful completion of the conference, selected papers were asked to be extended and submitted to this journal. After a rigorous peer-review process, they were accepted for publication. In this special issue, these selected papers have been included to highlight the relationship of global warming with the following topics: CO₂ emission reduction in electricity grid, waste, and wastewater management, phase change materials in the building, crop residue burning and prediction and application of solar energy.

We would like to take this opportunity to warmly thank the conference chair of GCGW-2019 and the Editor-in-Chief of *IJGW*, Prof. Dr. Ibrahim Dincer, the editorial team of *Inderscience*, all contributing authors, reviewers, and organising committee members for their efforts that have made this special issue a true success.