## **Editorial**

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Biographical notes: Adnan Midilli is a Full Professor of Marine Engineering Department in Turgut Kiran Maritime College of Rize University, Turkey. Between 1993–2010, he worked in Mechanical Engineering Department at the Faculty of Engineering of the Nigde University, Nigde, Turkey. He has authored/co-authored books and book chapters, many journal and conference papers and numerous technical reports. He has chaired many conferences, symposia, workshops and technical meetings. He is an active member of various international scientific organisations and societies and serves as the Associate Editor and Editorial Board member of various prestigious international journals. He is a recipient of several research, teaching and service awards. He has been an active Researcher and Supervisor. His research areas include energy and sustainability.

Can Ozgur Colpan is currently a Post-doctoral Fellow in the Mechanical and Industrial Engineering Department of Ryerson University, Toronto, Canada. He graduated from the Mechanical Engineering Department of the Middle East Technical University, in Ankara, Turkey in 2003 with a Bachelor of Science Degree. He graduated from the same university in 2005 with a Master of Science Degree. He received his PhD Degree from the Mechanical and Aerospace Engineering Department of Carleton University, in Ottawa, Canada in 2009.

Global warming, which mainly occurs due to the release of greenhouse gases by the human activities, has been accepted as one of the major environmental problems of our century. The effects of global warming, such as rising sea level, hurricanes, habitat damage of species and changes in water supply and draught, have been becoming more severe. To prevent these effects, researchers have proposed several methods such as increasing the efficiency of current energy systems, and using alternative energy systems such as nuclear, wind, geothermal, hydroelectric, solar and hydrogen.

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This special issue contains 15 technical papers, which were presented by internationally recognised researchers at the Global Conference on Global Warming-2009 in Istanbul, Turkey, on 5–9 July 2009 and were selected for publication in this Journal. The primary themes of the conference were global warming and climate change, not only in engineering and science but also in all other disciplines (e.g., ecology, education, social sciences, economics, management, political sciences and information technology). The conference covered a broad range of topics on global warming policies and strategies, energetic and environmental issues, chemical aspects of global warming, renewable energy, global warming models, greenhouse gases and air pollution, sustainable energy, climate change impacts, education on climate change, forestry, exergy and environment, hydrogen and fuel cell technologies, waste management, and water resources and management. In this special issue, selected papers from this conference have been included to highlight the relationship of global warming with the following topics:

- sustainability
- air pollution
- climate
- greenhouse gas emissions
- health
- modelling
- waste management
- education
- drought.

The collection of topic included is suitable for a wide range of interests for researchers and scientists working on the relationships of global warming with the topics shown earlier. Each paper was peer-reviewed under the guidelines of the Journal before their final acceptance for publication.