Preface

C. Ozgur Colpan

Mechanical Engineering Department,
Dokuz Eylul University,
Tinaztepe Yerleskesi,
Buca, Izmir, 35397, Turkey
Email: ozgur.colpan@deu.edu.tr

Onder Kizilkan

Energy Systems Engineering
Faculty of Technology
Suleyman Demirel University
Isparta, 32200, Turkey
Email: onderkizilkan@gmail.com

Biographical notes: C. Ozgur Colpan is an Associate Professor in the Department of Mechanical Engineering of Dokuz Eylul University in Turkey. He received his PhD (2009) from Carleton University in Ottawa, Canada and his Bachelor of Science (2003) and Master of Science (2005) degrees from the Middle East Technical University in Ankara, Turkey. His research areas are mathematical modelling, manufacturing and characterisation of fuel cells, organic Rankine cycles, heat exchanger design and modelling, and thermodynamic modelling of integrated energy systems. He has co-authored several important publications in the field of fuel cells and renewable energy systems.

Onder Kizilkan is an Associate Professor of Department of Energy Systems Engineering at Suleyman Demirel University, Isparta, Turkey. He holds an MSc (2004) and a PhD (2008) in Mechanical Engineering from the same university. His researches are mainly focused on energy storage systems, energy and exergy analyses of thermal systems, sustainable energy resources. He has edited two books and has published more than 40 papers in peer reviewed international journals and international symposiums.

This special issue consists of 11 papers selected from the papers presented at the *8th International Exergy, Energy and Environment Symposium (IEEES-8)*, which was held between 1–4 May, 2016 in Antalya, Turkey. This conference was an international conference, which provided an opportunity for the participants to discuss the recent progresses in the areas of energy, exergy, and environment. Researchers from all over the world exchanged new knowledge in these areas. Several oral and poster presentations were also done on the alternative energy technologies, new fuels, and innovative integrated energy systems.

High quality papers from IEEES-8 in the field of exergy and its applications were selected for this special issue. These papers passed through another peer-review process to improve their quality further for readers of IJEX. The topics of these papers mainly include exergetic performance of cogeneration systems, biodiesel fuelled diesel engines, solid oxide fuel cell, refrigeration systems, and solar tunnel dryer as well as applications of exergy analysis in heat and mass transfer.

We would like to take this opportunity to warmly thank Professor Ibrahim Dincer (the Founding Chair of IEEES-8), and the editorial team of Inderscience, all contributing authors and reviewers for their efforts that have made this special issue a true and unique success.