Editorial

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Biographical notes: Xin-Rong (Ron) Zhang has been a Professor at the Peking University since January 2010 and also a Visiting Professor at the Doshisha University since April 2008. His research interests mainly focused on super-critical and near-critical flow dynamics and heat transfer and related energy conversions. He has made significant contributions to the supercritical heat transfer area through numerous innovation, experimental methodology and technical inventions spanning from sub to super-critical fluids. He was selected as a most cited Chinese researcher by Elsevier. Currently, he is the Vice Board Chairman of China Energy Society and Chairman of Beijing Energy Society.

Although the consequences of global warming appear to be far away to us in the eye, its urgency seems more and more obvious. Battling global warming needs multi-disciplinary knowledge and solutions. Energy consumptions and their emissions contribute much to the global warming and climate change. Efforts should be made in the energy field to battle global warming. Discussions in the energy field are believed to provide a deeper understanding of interaction between global warming, climate change and energy. Potential energy solutions or related considerations to global warming are also provided for international scientists, researchers, engineers, policy makers and others who focus on global warming and potential solutions.

The Global Conference on Global Warming 2014 (GCGW 2014) was held on May 25–29, 2014 in Peking University, Beijing, China. This conference includes eight keynote lectures, 26 invited talks for parallel panel sessions and specialised sessions. In addition, GCGW 2014 had over 150 oral presentations by many international experts and researchers covering many important aspects of energy topics and their solutions to global warming. GCGW 2014 was an interdisciplinary international conference on the global warming and potential solutions, and provided a platform for the exchange of new scientific and technical information, the dissemination of state-of-the-art researches results on the issues, the presentation of the new developments in the area of global warming, and the debate and shaping of future directions and priorities for better environment, sustainable development and energy security.

After successful holding of GCGW 2014, we compiled together high-quality papers and made this special issue in the *International Journal of Global Warming* (*IJGW*). Thus, we selected over 20 papers on global warming and potential energy solutions to

consider for a special issue in *IJGW* entitled 'Global warming and its energy solutions' and have finally ended up with an outstanding special issue with nine unique, high-quality papers after going through a rigorous peer-reviewing process for this special issue to improve their quality further for readers of *IJGW*.

Finally, we would like to take this opportunity to warmly thank the Editor-in-Chief, Professor Dr. Ibrahim Dincer, editorial team of Inderscience, all contributing authors, reviewers, and organising committee members for their efforts that have made this special issue a true and nice success.