Preface by the Editor-in-Chief

Nano- and Self-Assembled Structures, the first special issue of the Turkish Journal of Physics, has been a tremendous achievement on the part of Professor Hadis Morkoç at Virginia Commonwealth University, USA, and Professor Ion Tiginyanu at the Technical University of Moldova, whom I greatly appreciate for their continuous endeavors in guest editorship, selection of topics and invited articles, and contributions of review and research papers. Nano- and self-assembled structures have become very popular due to the cyclic and technologically advantageous physical phenomena at this scale. This special issue collects review and research papers on these structures, investigating and explaining many aspects of the topic ranging from nanomaterial-based LEDs, nanoscale membranes, sensors, and solar cells to state-of-the-art MOSFETs and photoelectron emitters with nanoscale active layers. Furthermore, all the articles provide instructions as to how to process these nano- and self-assembled materials, structures, and devices. This issue also has special meaning and value since the 2014 Nobel Prize in Physics was awarded for the invention of efficient blue LEDs. I am sure that this issue will illuminate and open gateways to future inventions of young candidates in this area.

Sebahattin Tüzemen
Editor-in-Chief