## **Guest Editorial Preface**

## Special Issue on Renewable Energies Technology and Applications

Subrata Das, National Institute for Interdisciplinary Science and Technology, India Ratnesh Tiwari, Bhilai Institute of Technology, Raipur, India Vikas Dubey, Bhilai Institute of Technology, Raipur, India

Presently, the applications of "Renewable Energies" become a dominant part of our daily life. The technology and devices relevant to renewal energies are the central attraction of research, which will remain the same in the future. This is because the usage of such energies and relevant technologies are making our daily life very easy in terms of simplicity, safety and cost-effective.

In the last few decades, significant research has been carried out on the synthesis and characterization of the various functional materials, including graphene, polymers, metallic oxides, glasses, organic dyes, hybrid materials and many others, which are potential for energy-storage devices such as batteries, solar cells, light emitting diodes and supercapacitors. Along with the experimental work, enormous theoretical studies are also carried out to examine the physical properties suitable for renewable energy applications. Owing to the above studies, efficient materials and relevant technologies are realized and effect devices are made. Meanwhile, the research on enhancing the existing capabilities of many devices or tuning the physical or chemical properties of materials relevant to the renewal energy sources are continued very effectively.

The present Special Issue entitled "Renewable Energies Technology and Applications" is a collection of several invited and reviewed manuscripts written by well-known researchers who are working or dedicated in the experimental and theoretical studies of materials and related technologies suitable of renewable energies. These manuscripts are providing fresh information about the structural, physical, and other theoretical interpretations suitable for renewable energies.

We deeply believe that the quality of the manuscripts composing this special issue perfectly illustrates the great potential related to the combination of experimental and theoretical knowledge for the identification and development of innovative materials. Furthermore, we would like to thank all contributing authors for their appreciated assistance and contributions to this special issue, which we are confident will be of great attention for the readers of IGI Global.

Subrata Das Ratnesh Tiwari Vikas Dubey Guest Editors IJSESD