

Special Issue on
Advances in Clean Energy Technology

CALL FOR PAPERS

Clean energy refers to the energy produced from natural resources that are sustainable and so can be replenished over a period of time, while producing little or no pollution or global warming emissions. Today, clean energy technologies are providing real-world solutions: not only do they reduce the carbon pollution that causes climate change, but also they drive an energy economy with technologies that are increasingly cost-competitive with existing conventional technologies.

The breakthrough clean energy technologies encompassed high-voltage direct current electric power transmission technology, advanced energy storage systems, biofuels, smart grid systems, carbon capture utilization and storage technology, ultraefficient solar power systems, advanced offshore wind turbine technology, hybrid renewable energy systems, energy management systems based on wireless technology, and advanced thermal storage systems.

Additionally, nanoscale technology looks promising as a major contributor to advancements needed to fulfill the potential of emerging sources of clean energy technology. In particular, the recent progress in the comparatively new area of Nanoelectronics could be the basis for new manufacturing processes and devices to make clean energy systems and technologies more efficient and cost-effective.

Since energy is the heart of chemistry as it is used to save energy by improving energy efficiency, to drive clean energy and improve sustainability by revolutionizing the way the energy is being generated and stored, the overall domain of the special issue is well within the aims and scope of this journal.

The main objective of this special issue is to provide a platform for the discussion of the major achievements, recent progress, critical challenges, and future developments on the advancement of clean energy technology. We are inviting investigators to submit original research papers and review articles in this diverse field.

Potential topics include but are not limited to the following:

- ▶ Photovoltaic, solar thermal, geothermal, and wind energy
- ▶ Bioenergy and green synthesis
- ▶ Electrochemical storage, hydrogen, and fuel cells
- ▶ Nanomaterials in clean energy applications
- ▶ Energy recovery from wastewater treatment

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jchem/environmental.chemistry/acet/>.

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