

Special Issue on
Solar Energy Technologies and Applications

CALL FOR PAPERS

In recent years, the wide concerns about global warming and harmful emissions from carbon fuels have resulted in an emerging interest in the development of renewable energy applications. Solar energy, with a reputation for being inexhaustible and environmentally benign, is one of the most important parts of renewable energies and has been widely used in residential, industrial, remote, and transportation areas. Generally solar energy can be used in two ways: electricity and heat. Solar thermal technology uses the solar heat energy to heat water or air for applications such as space heating, water heating, and cooling for homes and businesses. Solar thermal energy can also be harvested for power generation such as concentrating solar power plant. Solar photovoltaic technology converts solar energy into electricity using semiconducting material solar cell.

This special issue in the Journal of Renewable Energy aims to call for papers on up-to-date research on various solar energy technologies and applications such as solar photovoltaic, concentrating solar power, solar desalination, solar powered transportation, solar heating, solar cooling, solar building technologies, solar thermal electricity, off-grid solar system application, solar energy storage, solar hybrid renewable energy system, solar energy economics, and other novel applications of solar energy. Specific studies on novel system, modelling and simulation, sizing and optimization, operation and management, and performance evaluation are also of interest for this special issue.

Potential topics include but are not limited to the following:

- ▶ Solar photovoltaic
- ▶ Concentrating solar power
- ▶ Solar desalination
- ▶ Solar powered transportation
- ▶ Solar heating
- ▶ Solar cooling
- ▶ Solar building technologies
- ▶ Solar thermal electricity
- ▶ Off-grid solar system application
- ▶ Solar energy storage
- ▶ Solar economics
- ▶ Solar hybrid renewable energy system

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jre/seta/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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