

Tentative Outline

Special Thematic Issue for the journal *Current Alternative Energy*

Photovoltaic/thermal hybrid exploitation of solar energy

Guest Editors: Li Qinghai

• **Scope of the Thematic Issue:**

Energy crisis is a global challenges. The solar energy radiated on to the earth is 2850 times of the human being energy consumption every year, thus the energy from sun is regarded as one of sustainable energy that support the future energy demand. Thanks to countless renowned researchers and engineers all over the world, like you, solar energy utilization technologies advance every day. New knowledge has to be synthesized and shared with the international community in a timely and regular way. Therefore, through this Special Thematic Issue, I am seeking your original, unpublished works that describe recent advances in relation to photovoltaic/thermal (PVT) exploitation of solar energy, especially for the hybrid system which simultaneously generate heat and electricity in an integrated manner. I extend my warm invitation for research papers from a broad range of topics related to solar energy hybrid utilization, solar cell, beam splitting, nano-fluid, collector and many other related applications. High quality manuscripts will be published in the Special Thematic Issue after rigorous peer-review. Our team will work hard towards the rapid and wide dissemination of your valuable research results, recent developments, and novel applications in the area of solar energy.

This Special Issue is dedicated to birth of the Tsinghua University–University of Waterloo Joint Research Center for Micro/Nano Energy and Environment Technology which was founded on Nov. 1, 2017. Full papers, communications, and reviews are all welcome. I look forward to receiving your work.

Keywords: 6 to 8 keywords should be provided.

Photovoltaic/thermal Hybrid System, Solar Cell, Solar Thermal Energy, Concentrated Solar Power, Beam Splitting, Selective Absorbing Nanofluid

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- PV/T(photovoltaic-thermal) Hybrid System
- PV/T collector
- Spectral Beam Splitting Technology
- Solar Cell
- Perovskite Solar Cell
- Selective Absorbing Nanofluid

Tentative titles of the articles and list of contributors:

Tentative titles of the articles and list of contributors with their names, designations, addresses and email addresses should be provided.

This topic will call for paper from international scientific community. The title and potential contributors are not available now.

Schedule:

- ✧ Thematic issue submission deadline: Nov.1, 2020

Contacts:

Guest Editor Name:Li Qinghai

Affiliation: Tsinghua University-University of Waterloo Joint Research Center for Micro/Nano Energy & Environment Technology, Department of Energy and Power Engineering, Tsinghua University, Beijing, 100084, P. R. China

Email: liqh@tsinghua.edu.cn