

Special Issue

Critical Issues in Solar Power Generation Technology

Message from the Guest Editors

As the most abundant renewable resource in the world, solar energy is widely distributed and non-polluting, making it an ideal alternative energy source. Compared with traditional thermal power generation technologies, solar power generation technology has many advantages, but there are still many problems that hinder its development, for instance, system power output instability caused by solar volatility and intermittency, low energy conversion efficiency, high cost, etc. How can we meet these challenges and effectively solve a series of critical issues in the development of solar power generation? This Special Issue encourages research and development works on solar power generation technologies, with topics including but not limited to: a) Critical issues in solar photovoltaic power; b) Critical issues in concentrated solar thermal power; c) Energy storage issues in solar power generation; d) Research on solar-based hydrogen production or desalination; e) Applications of nanofluids and other new materials in solar power field; f) Research works related to solar energy development policy; g) Research on other issues related to solar power generation technology.

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