Special Issue

Advances in Concentrating Solar Power Systems

Message from the Guest Editor

Solar radiation is the most abundant and distributed primary energy source on Earth and therefore it is naturally expected to play a fundamental role in the necessary transition from the present electric system, still mainly based on fossil fuels, to a totally renewable and sustainable one. Concentrating Solar Power (CSP) systems are capable of storing large amounts of energy through the use of thermal energy storage. This makes CSP a far more promising solution for large scale power generation from solar and therefore the most suitable technology to promote a massive penetration of solar energy in the power generation industry. The main advantages of integrated versus solar only power plants are equipment sharing, and in turn the lower investment costs, higher load factor, reduced financial risks, extension of the suitable locations for the solar plant (in terms of lower acceptable solar irradiance) and lower impact on the existing electric grid. This Special Issue aims to take stock of the more recent advances and innovations in the field seeking to concentrate solar power generation.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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