

Who is Kai Wang?

Dr. Kai Wang is a Research Professor in the Institute of Refrigeration and Cryogenics at Zhejiang University. He received his B.Eng. degree in Energy and Environment Systems Engineering and Ph.D. degree in Power Engineering and Engineering Thermophysics from Zhejiang University in 2009 and 2014, respectively.

Is a hybrid solar-biomass renewable cogeneration system feasible?

The thermoeconomic feasibility of a hybrid solar-biomass renewable cogeneration systems based on a wood-chip boiler, photovoltaic-thermal (PVT) collectors and an organic Rankine cycle (ORC) engine is investigated for combined heat and power (CHP) provision in a sports-centre application.

Can a solar-combined heat and power system be used for milk production?

We investigate the thermoeconomic potential of a solar-combined heat and power (S-CHP) system based on concentrating, spectral-splitting hybrid photovoltaic-thermal (PVT) collectors for the provision of electricity, steam and hot water for processing milk products in dairy applications.

What is the solar utilisation efficiency of commercial photovoltaic panels?

The solar utilisation efficiency of commercial photovoltaic panels is typically below 25%. Here, we demonstrate a hybrid multi-generation photovoltaic... [...]

Dr. Kai Huang is an Assistant Professor at the Department of Materials Science and Engineering, University of Toronto. He received his Bachelor's degree in Materials Chemistry from the University of Science and Technology of China ...

Kai-Hung Lu's 25 research works with 376 citations and 2,007 reads, including: Improvement of Stability in an Oscillating Water Column Wave Energy Using an Adaptive Intelligent Controller

Solar thermal [1] Maria Herrando, Kai Wang, Gan Huang, Todd Otanicar, Osama Bany Mousa, Rafaela A. Agathokleous, Yulong Ding, Soteris Kalogirou, Ned Ekins-Daukes, Robert A. Taylor, Christos N. Markides*, A review of solar hybrid photovoltaic-thermal (PV-T) collectors and systems, Progress in Energy and Combustion Science 97, 101072, 2023.

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Tailoring of a Piezo-Photo-Thermal Solar Evaporator for Simultaneous Steam and Power Generation. Cong-Han Huang, Cong-Han Huang. Graduate Institute of Applied Science and Technology, Advanced Membrane Materials Research Center, National Taiwan University of Science and Technology, Taipei, 10607

Taiwan.

Pei-Hwa Huang; Kai-Sheng Yang; With more penetration of solar power plants, photovoltaic generation will be exerting more influences on the power system. ... National Kaohsiung University of ...

Kai Huang Shui Wang In this paper, with a two-dimensional particle-in-cell simulation model, we study the formation of power-law spectra of energetic electrons in multiple X line magnetic ...

Promising solar-based combined heating and power (CHP) systems are attracting increasing attention thanks to the favourable characteristics and flexible operation. ... Gan Huang; Kai Wang ...

Dr. Kai Huang is an Assistant Professor at the Department of Materials Science and Engineering, University of Toronto. He received his Bachelor's degree in Materials Chemistry from the University of Science and Technology of China (USTC). ... L. Huang, L. Zeng, W.C. Xu, Z. Li, Y. Li & G. Han. Designing next generation of persistent luminescence ...

Applying the optimum thickness of the paper film and the optimum concentration of carbon particles in our C-paper system, the evaporation rate and the evaporation efficiency under a solar power ...

Dongmei Huang's 73 research works with 905 citations and 18,980 reads, including: Correction to: Visibility graph analysis of the sea surface temperature irreversibility during El Niño events

DOI: 10.1016/J.JOULE.2018.02.009 Corpus ID: 116485612; A Hybrid Electric and Thermal Solar Receiver @article{Weinstein2018AHE, title={A Hybrid Electric and Thermal Solar Receiver}, author={Lee A. Weinstein and Kenneth McEnaney and Elise Strobach and Sungwoo Yang and Bikram Bhatia and Lin Zhao and Yi Huang and James Loomis and Feng Cao and Svetlana V. ...

The power conversion efficiencies (PCEs) of all-polymer solar cells (all-PSCs) have been rapidly boosted up to 15% recently due to the emerging polymerized small molecule acceptors (PSMAs).

Organic conjugated molecules are a category of high solar harvesting material that can convert energy into heat and be utilized as solar-driven water-electricity co-generation. However, the limited absorption range and insufficient photothermal conversion efficiency hinder their application. Herein, two new organic molecules TPA-BTQ and TPA-SBTQ, featuring strong ...

Motivated by possible application of InGaN/GaN multi-quantum well solar cells in hybrid concentrated photovoltaic / solar thermal power conversion systems, we have analyzed the temperature and ...

Moreover, TPA-SBTQ is further explored for solar-thermal conversion applications. The evaporation rate of TPA-SBTQ solar-driven water evaporator can reach a remarkable $1.337 \text{ kg m}^{-2} \text{ h}^{-1}$ with 92% of water

evaporation efficiency under 1 kW m^{-2} solar irradiation. This study provides guidance for the rational design of high-efficient ...

Research on Tower-Type Solar Photothermal Power Generation Technology, Yueyun Fang, Yingying Zhu, Renlong Huang. Skip to content ... Yingying Zhu 1 and Renlong Huang 1. Published under licence by IOP Publishing Ltd ... 1 Guangdong University of Science & Technology, Dongguan, 523083, China Buy this article in print.

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