

Gu ZhaoLin, Luo Xilian, Meng Xiangzhao, Primitive Environment Control for Preservation of Pit Relics in Archeology Museums of China, ENVIRONMENTAL SCIENCE & TECHNOLOGY, 2013, 47(3): 1504-1509 5. Meng Xiangzhao, Yu Bingfeng, Experimental research on air flow performance at supply-air openings in frost-free refrigerator by DPIV, ...

The phase change materials have been used to collect the fluctuant solar energy to form a stable energy source for the terminal equipment of the buildings. In this study, the hybrid organic phase change materials was ...

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Zhaolin Gu: Supervision, Project. ... Energy-saving rates (ER) range from 0.9% to 8.0% across LCZs, with Acer excelling in LCZ1, LCZ2, and LCZ4, and Populus in LCZ5. Pinus has the lowest ER in all scenarios. Shading contributes significantly to energy savings in LCZ5, while cooling effects are prominent in LCZ1 and LCZ4. ...

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Zhaolin Gu; Low- and ultra-low-grade thermal energy have significant recycling value for energy saving and carbon footprint reduction. ... Solar energy storage is an indispensable and sustainable ...

WANG Ning, HAN Chengyu, ZHANG Yang, GU Zhaolin. REGIONAL CARBON EMISSION PEAKING BASED ON THRESHOLD-STIRPAT EXTENSION MODEL: A CASE STUDY ON EAST CHINA[J]. ENVIRONMENTAL ENGINEERING, 2024, 42(5): 154-162. doi: 10.13205/j.hjgc.202405020

The solar energy utilization in built environment has been limited due to its low heat flux, uneven distribution in time and space and temporal difference in day and night. The phase change materials have been used to collect the fluctuant solar energy to form a stable energy source for the terminal equipment of the buildings. In this study, the hybrid organic ...

Analysis on Cascade Heat Utilization of Solar Energy in Building Heating Based on Phase Change Thermal Storage Procedia Engineering 2017 | Conference paper

The heat storage time was reduced by 20.4%, 8.1%, and 6.2% compared with the other three EG ratios, respectively; meanwhile, the heat release time was reduced by 19.3%, 6.7%, and 5.3% ...

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Zhaolin Gu Xi'an Jiaotong University mail.xjtu.cn environment ... Energy Conversion and management 43 (7), 961-971, 2002 126 2002 Spatial distribution characteristics of PM2.5 and PM10 in Xi ...

Materials 2022, 15, 6856 3 of 15 pool to achieve total energy savings for the system. Low- and ultra-low-grade thermal energy are especially suitable as the low-end energy source of heat pumps.

Speaker Bio Zhaolin GU, PhD, Professor/Doctoral supervisor. He was awarded the Trans-Century Talent of the Ministry of Education in 2003 and the Special Allowance Winner of State Council in 2016. Now he is the ...

Corresponding author: GU Zhaolin. E-mail: guzhaoln@mail.xjtu.cn. Journal of Thermal Science, 2020, 29(2):486-491. ... 5 Molten Salt Energy Storage Material Supply--Aobo Energy Storage Joins ...

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Latent heat thermal energy storage systems can be used to recover the rejected heat from air conditioning systems, which can be used to generate low-temperature hot water. It decreases not only the consumption of primary energy for heating domestic hot water but also the calefaction to the surroundings due to the rejection of heat from air ...

GU Zhaolin is a Professor in Environmental Science and Technology, and the Executive Dean in School of Human Settlements and Civil Engineering, Xi'an Jiaotong University. He is also the Director of the Joint Center of Urban ...

Zhaolin GU | Cited by 4,324 | of Xi'an Jiaotong University, Xi'an (XJTU) | Read 292 publications | Contact Zhaolin GU. Home; ... Phase Change Materials Used for Solar Energy Storage. Article ...

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The Institute of Engineering Thermophysics (IET) originated from the Power Laboratory of the Chinese Academy of Sciences (CAS) founded by Academician WU Chung-hua in 1956. At present, it has developed into a research institute combining Dynamic & Electric Engineering and Energy Science & Technology in

strategic advanced technology. Since its ...

[14] Zanshe Wang*, Zhiwei Li, Guotai Lu, Qi Gao, Yanping Li, Zhaolin Gu, Finned coil-type energy storage unit using composite inorganic hydrated salt for efficient air source heat pumps,...

The use of a latent heat storage system using Phase Change Materials (PCM) is an effective way of storing thermal energy (solar energy, off-peak electricity, industrial waste heat) and has the ... Expand

[11] Zanshe Wang*, Lisheng Yang, Juntao Hu, Zhaolin Gu, Analysis on cascade heat utilization of solar energy in building heating based on phase change thermal storage, Procedia Engineering,...

Latent heat thermal energy storage systems can be used to recover the rejected heat from air conditioning systems, which can be used to generate low-temperature hot water. ...

The prediction and determination of shelf-life is an important step in the storage and use of ammunition. In this study, the aging reaction model and shelf-life prediction model of SF-3 double-base propellant were studied. ... aging reaction model of SF-3 was developed based on scanning electron microscopy and energy-dispersive X-ray ...

As an important building energy saving technology, latent energy storage technology can solve the mismatch between energy supply and demand in time, space and strength. The preparation and thermal conductivity enhancement of building energy storage phase change materials, the heat transfer characteristics and enhancement of a phase change unit, ...

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