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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 ...

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.

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 Climate and the Built Environment Research Between Xi'an Jiaotong University and Shanxi Weather Bureau.

Low-carbon and energy-saving buildings are regarded as effective tools to improve urban thermal environment and alleviate UHI effects as they reduce the anthropogenic heat emissions and CO<sub>2</sub> emissions. According to the data, urban building energy consumption has accounted for 1/4 of the total global energy consumption and greenhouse gas emission at ...

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 standing member of Chinese Society of Particology, Deputy Director of Shaanxi Provincial Environmental Science Society, Director of Shaanxi HVAC Industry ...

Solar energy storage is an indispensable and sustainable utilization mode of renewable energy; environment friendly, large-capacity, low heat loss, and long-term storage are critical to improving the integration of solar energy supply. Traditional thermal energy storage mode cannot achieve long-term storage due to the heat loss even under the excellent thermal ...

Chaolin Gu, Jianfa Shen, Kwan-yin Wong, Feng Zhen, 2001, Regional polarization under the socialist-market

system since 1978-a case study of Guangdong province in south China, Environment and Planning A, Vol.33, pp.97-119. 2. GU Chaolin, 2001, Social Polarization and Segregation in Beijing, Chinese Geographical Science, Vol.11, No.1, pp.17-26

Zhaolin Gu; Hongjuan Liu; Yun Li; 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 ...

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% ...

Article from the Special Issue on Compact Thermal Energy Storage Materials within Components within Systems; Edited by Ana L&#225;zaro; Andreas K&#246;nig-Haagen; Stefania Doppiu and Christoph Rathgeber ... Zhaolin Gu. Article 107613 View PDF. Article preview. select article Plasticity analysis and constitutive model of salt rock under different ...

Heating Based on Phase Change Thermal Storage Zanshe Wang \*, Lisheng Yang, Juntao Hu, and Zhaolin Gu Institute of Building Technology and Built Environment, Xi'an Jiaotong University, Xi'an, China 710049 Abstract Solar energy is a clean and renewable energy for building heating, it is an environmentally friendly technology which can

Solar energy is a clean and renewable energy for building heating, it is an environmentally friendly technology which can effectively reduce building energy consumption.

The preparation and thermal conductivity enhancement of building energy storage phase change materials, the heat transfer characteristics and enhancement of a phase change unit, the development and application of building phase change energy storage system are reviewed. ... :173-177. LIU Hongjuan, GU Zhaolin. Experimental study of paraffin wax ...

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Zhang L, Xu S M. Operating characteristics of energy storage air conditioning systems using LiBr solution as working fluid (in Chinese). Hv & Ac, 2006, 06: 91-96 ... ZhaoLin Gu. Authors. ZhanShe Wang. View author publications. You can also search for this author in PubMed Google ...

DOI: 10.1016/S0196-8904(00)00145-X Corpus ID: 95393205; Optimization of cyclic parameters of a supercritical cycle for geothermal power generation @article{Gu2001OptimizationOC, title={Optimization of cyclic parameters of a supercritical cycle for geothermal power generation}, author={Zhaolin Gu and Haruki Sato}, journal={Energy Conversion and Management}, ...

Zhaolin Liu. Institute of Materials Research and Engineering (IMRE), A\*STAR, 2 Fusionopolis Way, Singapore, 138634 Singapore ... (ARMMBs) have a great potential to meet the future demands in the wide spectrum of energy storage applications, ranging from wearables/portables to large-scale stationary energy storage. This is owing to the abundance ...

Firstly, a low temperature phase change material is tested and used as an energy storage pool, secondly, the capillary radiation heating is adopted as the terminal heating mode due to its features of low temperature operation mode, large heat transfer area and higher thermal comfort, finally, the performance of the system is calculated and ...

In this paper, an environment-energy coupled simulation method, which is suitable for the neighborhood-scale simulation, is provided. With the method, the impacts of improving vegetation configuration standards on the microclimate and the building cooling load of different urban blocks in Xi'an were evaluated. ... Zhaolin Gu: Supervision ...

Zhaolin Gu Archaeology museums play an especially important role in protecting unearthed cultural relics from natural weathering caused by the sun, wind and rain and for visitors to understand a ...

DOI: 10.1016/J.PROENG.2017.10.075 Corpus ID: 103249435; Analysis on Cascade Heat Utilization of Solar Energy in Building Heating Based on Phase Change Thermal Storage @article{2017AnalysisOC, title={Analysis on Cascade Heat Utilization of Solar Energy in Building Heating Based on Phase Change Thermal Storage}, author={}, journal={Procedia ...

Zanshe Wang \*, Guoqiang Huang, Zhaoying Jia, Qi Gao, Yanping Li and Zhaolin Gu School of Human Settlement and Civil Engineering, Xi'an Jiaotong University, Xi'an 710049, China \* Correspondence: wangzs@mail.xjtu .cn ... energy storage can be carried out utilizing phase PCM heat storage as a low-grade energy. Materials 2022, 15, 6856 3 of 15

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.

Preparation and characterization of phase change materials for air energy storage ZHANG Runxia 1, 2 (), GU Zhaolin 3 ... ZHANG Runxia, GU Zhaolin, WANG Zanshe, KANG Yanqing, BAI Mengmeng. Preparation and characterization of phase change materials for air energy storage[J]. Chemical Industry and Engineering Progress, 2021, 40(7): 3892-3899.

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Experimental Study on Hybrid Organic Phase Change Materials Used for Solar Energy Storage. Updated:2020-04-16 12:12 Source:Journal of Thermal Science. Abstract. ... Corresponding author: GU Zhaolin. E-mail: guzhaoln@mail.xjtu .cn. Journal of Thermal Science,2020,29(2):486-491.

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