

The enhanced energy performance of desiccant dehumidifiers through new material synthesis and optimized design have extended their potential to several state-of-the ...

In essence, this study provides a pathway for enterprises to realize tangible energy savings and emission reductions in the wood drying process, showcasing the potential ...

In contrast to studies focusing on the impact of overall system structure on dehumidification and heat transfer performance, research on evaporators often examines the ...

The heat and mass transfer of liquid desiccant for dehumidification and cooling has been investigated in recent years as a promising energy-efficient technology to improve ...

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Drawing on advanced studies and findings, this research examines the primary areas for future development in advancing deep dehumidification systems. The objective of this ...

Experimental evaluation of desiccant dehumidification and air-conditioning system for energy-efficient storage of dried fruits

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Abstract Currently two humidity control methods, namely liquid desiccant and rotary wheel dehumidification, are commonly used to handle humid fresh air. For these two ...

Simple and Economical method to produce dehumidification is by solid desiccant wheel with a desiccant material (silica gel) which attract ...

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The research and applications of deep dehumidification technology with high performance and energy efficiency are becoming hot issues, and it is crucial to review and ...

Traditional salt solutions, due to their susceptibility to crystallization and corrosion, can be replaced by ionic liquids (ILs) to enhance ...

An experimental comparison was conducted between the dehumidification module and the regeneration module, and the system's performance was simulated with an ...

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Many industrial environments have low-humidity requirements. However, most research focuses on

dehumidification systems in civil buildings, while rese...

The efficiency of various dehumidifiers is quite different. Since the dehumidifier is the main equipment of the energy storage liquid desiccant cooling system, the efficiency of the ...

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By maintaining stratification between concentrated and diluted desiccant solutions, a single tank can be used to store liquid desiccant for energy storage purposes. Using a stratified tank ...

Such hybrid system is made up by the combined heat - isobaric compressed air energy storage (CH-ICAES) and the water-heated humidification dehumidification (HDH) ...

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For a commercial greenhouse, it was important to improve the performance of the active heat storage-release system to get more solar energy and reduce the additional energy input. A ...

In this study we presented a dehumidification system that suits Chinese solar greenhouses. Dehumidification is achieved by introducing ...

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