



Maolue energy storage

What are molecular solar thermal energy storage systems (most)?

We define their common properties as an innovative molecular system that can store solar energy into chemical bond strain and later release it on demand. Such photoisomers are referred to as molecular solar thermal energy storage systems (MOST), also known as solar thermal fuels (STF).

Are molecular solar thermal systems suitable for storing solar energy?

Molecular solar thermal systems are promising for storing solar energy but achieving high energy storage densities and absorption characteristics matching the solar spectrum is challenging.

Why is energy storage and conversion important?

The importance of energy storage and conversion materials and devices will enhance even more in the future. Through strong demands for research and consideration of ILs unique properties, we will be able to identify indispensable applications for ILs. Tomohiro Yasuda - Institute of Catalysis, Hokkaido University, Kita 21.

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