

Dynamic tuning of optical absorbers for accelerated solar-thermal energy storage

Dynamic tuning of optical absorbers for accelerated solar-thermal energy storage, Nature Communications 2017, 8 (1), 1478. Research Projects. National Natural Science Foundation of China. National Key R& D Project from Ministry of ...

Dynamic tuning of optical absorbers for accelerated solar-thermal energy storage Zhongyong Wang 1, Zhen Tong 2, Qinxian Ye 1, Hang Hu 1, Xiao Nie 1, Chen Yan 2, Wen Shang 1, ...

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71,()57,()14,65?1,1,10,8,3, ...

(DOI: 10.1038/S41467-017-01618-W) Currently, solar-thermal energy storage within phase-change materials relies on adding high thermal-conductivity fillers to improve the thermal ...

Dynamic tuning of optical absorbers for accelerated solar-thermal energy storage. Nat Commun, 8 (2017), Article 1478. View in Scopus Google Scholar. This work demonstrated ...

In this work, we have shown that dynamic tuning the distribution of the optical absorbers realizes the simultaneous achievement of fast charging rates, large phase-change ...

,(2008)?(2010)?(2011)?" ...

Currently, solar-thermal energy storage within phase-change materials relies on adding high thermal-conductivity fillers to improve the thermal-diffusion-based charging r ...

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Compared with conventional thermal charging, the optical charging strategy improves the charging rate by more than 270% and triples the amount of overall stored thermal energy.

Benwei Fu(#); Jingyi Zhang; Huanbei Chen; Huaixin Guo; Chengyi Song; Wen Shang; Peng Tao; Tao

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Deng(*), Optical nanofluids for direct absorption-based solar-thermal energy harvesting at medium-to-high ...

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