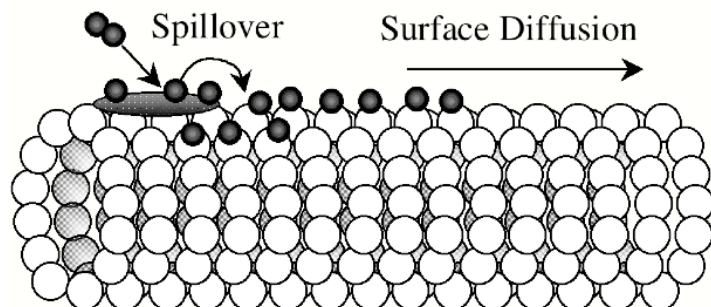


Hydrogen storage at ambient temperature

New adsorbents for hydrogen storage by spillover



Hydrogen storage materials use hydrogen spillover via an added catalyst in nanostructured carbons.

Objective:

To develop new sorbent materials for hydrogen storage at near ambient temperatures that do not have the deficiencies of metal hydrides and cryogenic storage.

Approach:

- Exploit the hydrogen spillover mechanism that is well known in catalysis (at mild temperatures).
- Develop new techniques for spillover

Impact:

- New sorbents for hydrogen storage for on-board automotive applications
- New sorbents for hydrogen storage for niche applications

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