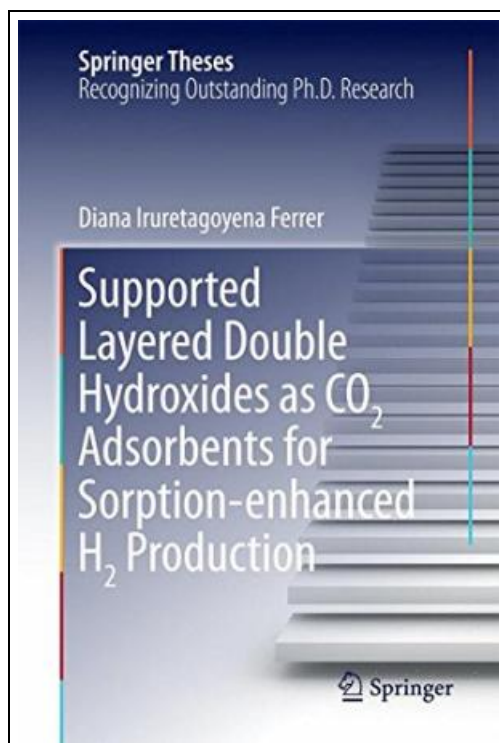


Supported Layered Double Hydroxides as CO₂ Adsorbents for Sorption-enhanced H₂ production



Filesize: 2.77 MB

Reviews

*Completely essential read publication. It is really basic but excitement in the fifty percent of the book. You will not really feel monotony at anytime of your respective time (that's what catalogues are for about in the event you ask me).
(Lexie Paucek PhD)*

SUPPORTED LAYERED DOUBLE HYDROXIDES AS CO2 ADSORBENTS FOR SORPTION-ENHANCED H2 PRODUCTION



To save **Supported Layered Double Hydroxides as CO2 Adsorbents for Sorption-enhanced H2 production** eBook, please access the button beneath and download the file or have accessibility to additional information which are highly relevant to SUPPORTED LAYERED DOUBLE HYDROXIDES AS CO2 ADSORBENTS FOR SORPTION-ENHANCED H2 PRODUCTION book.

Springer-Verlag GmbH Jul 2016, 2016. Buch. Condition: Neu. Neuware - This thesis presents a combination of material synthesis and characterization with process modeling. In it, the CO2 adsorption properties of hydrotalcites are enhanced through the production of novel supported hybrids (carbon nanotubes and graphene oxide) and the promotion with alkali metals. Hydrogen is regarded as a sustainable energy carrier, since the end users produce no carbon emissions. However, given that most of the hydrogen produced worldwide comes from fossil fuels, its potential as a carbon-free alternative depends on the ability to capture the carbon dioxide released during manufacture. Sorption-enhanced hydrogen production, in which CO2 is removed as it is formed, can make a major contribution to achieving this. The challenge is to find solid adsorbents with sufficient CO2 capacity that can work in the right temperature window over repeated adsorption-desorption cycles. The book presents a highly detailed characterization of the materials, together with an accurate measurement of their adsorption properties under dry conditions and in the presence of steam. It demonstrates that even small quantities of graphene oxide provide superior thermal stability to hydrotalcites due to their compatible layered structure, making them well suited as volume-efficient adsorbents for CO2. Lastly, it identifies suitable catalysts for the overall sorption-enhanced water gas shift process. 209 pp. Englisch.



[Read Supported Layered Double Hydroxides as CO2 Adsorbents for Sorption-enhanced H2 production Online](#)



[Download PDF Supported Layered Double Hydroxides as CO2 Adsorbents for Sorption-enhanced H2 production](#)

Other Books



[PDF] Children s Handwriting Book of Alphabets and Numbers: Over 4,000 Tracing Units for the Beginning Writer

Access the link below to download and read "Children s Handwriting Book of Alphabets and Numbers: Over 4,000 Tracing Units for the Beginning Writer" PDF document.

[Download](#) [Document](#)

»



[PDF] Billy & Buddy 3: Friends First

Access the link below to download and read "Billy & Buddy 3: Friends First" PDF document.

[Download](#) [Document](#)

»



[PDF] Alphabet Tracing

Access the link below to download and read "Alphabet Tracing" PDF document.

[Download](#) [Document](#)

»



[PDF] The Right Kind of Pride: A Chronicle of Character, Caregiving and Community

Access the link below to download and read "The Right Kind of Pride: A Chronicle of Character, Caregiving and Community" PDF document.

[Download](#) [Document](#)

»



[PDF] Patterns and Sequence Stick Kids Workbook, Grade K Stick Kids Workbooks

Access the link below to download and read "Patterns and Sequence Stick Kids Workbook, Grade K Stick Kids Workbooks" PDF document.

[Download](#) [Document](#)

»



[PDF] Angels Among Us: 52 Humorous and Inspirational Short Stories: Lifes Outtakes - Year 7

Access the link below to download and read "Angels Among Us: 52 Humorous and Inspirational Short Stories: Lifes Outtakes - Year 7" PDF document.

[Download](#) [Document](#)

»