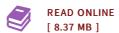


Sol-gel Synthesis of Cobalt hydroxychlorides

By S. Ranganatha

LAP Lambert Academic Publishing Mrz 2018, 2018. Taschenbuch. Condition: Neu. Neuware - Co2(OH)3Cl has been prepared by a facile one pot sol-gel process. Two different solvents, ethylene glycol and glycerol are used for the synthesis. The resulting samples are studied for their morphology, structure and electrochemical stability upon cycling. The sample with ethylene glycol as solvent exhibits three dimensional porous interconnected xerogel morphology whereas that with glycerol shows a crystalline and non-porous nanoparticulate structure. The specific capacitance of the Co2(OH)3Cl prepared with ethylene glycol is 434 F/g, when the electrodes are cycled in 3 M KOH at a specific current 2 A/g and with that of glycerol it is 252 F/g. Interestingly, at a high current density of 25 A/g Co2(OH)3Cl with ethylene glycol and glycerol showed 143 F/g and 72 F/g respectively. Ethylene glycol significantly modified the structure and morphology so as to attain a mesoporous Co2(OH)3Cl with high surface area which in turn influenced its remarkable electrochemical behavior. With a significant specific capacity and electrochemical stability, the synthesized material is a novel potential candidate for supercapacitors 52 pp. Englisch.





Reviews

Thorough guide! Its this sort of excellent read. It is really simplified but unexpected situations in the 50 % in the book. You are going to like just how the blogger create this publication.

-- Prof. Lela Steuber

This pdf is very gripping and fascinating. We have read and that i am certain that i am going to going to read once more again in the future. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- Burnice Cronin

Relevant Books



Oxford Reading Tree Read with Biff, Chip and Kipper: Phonics: Level 2: A Yak at the Picnic (Hardback)

Oxford University Press, United Kingdom, 2014. Hardback. Book Condition: New. Mr. Nick Schon (illustrator). 177 x 148 mm. Language: English. Brand New Book. Read With Biff, Chip and Kipper is the UK s best-selling home reading series. It is based on...



Read Write Inc. Phonics: Grey Set 7 Non-Fiction 2 a Flight to New York

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. 213 x 98 mm. Language: N/A. Brand New Book. These decodable non-fiction books provide structured practice for children learning to read. Each set of books is carefully levelled to match childrens growing...



The Three Little Pigs - Read it Yourself with Ladybird: Level 2

Penguin Books Ltd, United Kingdom, 2013. Paperback. Book Condition: New. 222 x 150 mm. Language: English. Brand New Book. In this classic fairy tale, the three little pigs leave home and build their own houses - one of straw, one of...



 $Index \ to \ the \ Classified \ Subject \ Catalogue \ of \ the \ Buffalo \ Library; \ The \ Whole \ System \ Being \ Adopted \ from \ the \ Classification \ and \ Subject \ Index \ of \ Mr. \ Melvil \ Dewey, with \ Some \ Modifications \ .$

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English. Brand New Book ***** Print on Demand *****. This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the...



The Tale of Jemima Puddle-Duck - Read it Yourself with Ladybird: Level 2

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, The Tale of Jemima Puddle-Duck - Read it Yourself with Ladybird: Level 2, This is a gentle adaptation of the classic tale by Beatrix Potter. Jemima Puddle-Duck wants to lay and hatch her...



Dom's Dragon - Read it Yourself with Ladybird: Level 2

Penguin Books Ltd. Paperback. Book Condition: new. BRAND NEW, Dom's Dragon - Read it Yourself with Ladybird: Level 2, Mandy Ross, One day, Dom finds a little red egg and soon he is the owner of a friendly dragon called Glow! But...