

Metal hydroxychloride for Superior Electrochemical Supercapacitors : Co₂(OH)₃Cl xerogels with 3D interconnected mesoporous structures



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Reviews

It is simple in read easier to understand. I am quite late in start reading this one, but better then never. Its been designed in an exceptionally easy way in fact it is just following i finished reading through this publication where basically transformed me, alter the way i really believe.

(Ms. Christy Ondricka DDS)

METAL HYDROXYCHLORIDE FOR SUPERIOR ELECTROCHEMICAL SUPERCAPACITORS : CO₂(OH)₃CL XEROGELS WITH 3D INTERCONNECTED MESOPOROUS STRUCTURES



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LAP Lambert Academic Publishing Mrz 2018, 2018. Taschenbuch. Condition: Neu. Neuware - Co₂(OH)₃Cl xerogel interconnected mesoporous structures have been prepared by a facile one pot sol-gel process and heat treated at 200 °C and 400 °C. All samples are studied for their morphology, structure and electrochemical stability upon cycling. The specific capacitance of the as-prepared Co₂(OH)₃Cl from single electrode study is 450 F/g, when the electrodes are cycled in 3 M KOH at a specific current 2 A/g. Interestingly, capacity retention after 500 and 1000 cycles is about 92% and 75%, respectively. Sample heated at 200 °C exhibits 308 F/g at 2 A/g and that heated at 400 °C shows only 32 F/g at 0.2 A/g. With an increase in preparation temperature, amorphous Co₂(OH)₃Cl is converted to crystalline Co₃O₄ phases with lower electrochemical performance. With a significant specific capacity and electrochemical stability, the synthesized material is a novel potential candidate for supercapacitors. 52 pp. Englisch.



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