



Sol-gel Synthesis of Cobalt hydroxychlorides

By S. Ranganatha

LAP Lambert Academic Publishing Mrz 2018, 2018. Taschenbuch. Condition: Neu. Neuware - $\text{Co}_2(\text{OH})_3\text{Cl}$ 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 $\text{Co}_2(\text{OH})_3\text{Cl}$ 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 $\text{Co}_2(\text{OH})_3\text{Cl}$ 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 $\text{Co}_2(\text{OH})_3\text{Cl}$ 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.



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