

Energy PhD Seminar
September 28, 2016
14:00, room 402

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Anode coatings for lithium-silicon batteries

Thin film coatings are used for surface modification and material properties engineering in photovoltaics, battery research and nanocomposites. The talk will introduce several methods of thin film coating: sol-gel process, atomic layer deposition, electrodeposition and chemical vapor deposition. I will compare the processes, the thicknesses and porosities of resulting coating layers. I will explain how different coating methods are used in the lithium-ion battery research, though I'll try to reduce the particular details so that you could come up with a coating process when designing your next material.