

SCCER Summer School - Energy Storage in Batteries: Materials, Systems, and Manufacturing

Energy Storage in Batteries: Materials, Systems, and Manufacturing
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Basics of Materials Science

Monday, 11 July 2016 15:45 (1h 45m)

This lecture will cover the structure, synthesis and characterization of materials used in rechargeable Li-ion batteries and in closely related battery technologies. First, the major intercalation-type cathode and anode materials will be addressed. Then the advantages and shortcomings of going to “nano”(down-sizing) and “smart engineering” of the electrode materials will be discussed. Finally, materials aspects of post-Li chemistries will be briefly reviewed

Presenter: Prof. KOVALENKO, Maksym (Laboratory of Inorganic Chemistry ETH Zürich)