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The Significance of Nanotechnologies in Energy Conversion and Storage Technologies

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Energy conversion and storage technologies relies in most aspects on proper design and application of various nanotechnologies. In this presentation, examples of the importance of nanotechnologies in areas of fuels cells, electrolysis, batteries and thermoelectric generators, will be presented and discussed.

The nanotechnologies in play are e.g. nanostructured electrodes manufactured by impregnation, buffer layers manufactured e.g. by pulsed laser deposition (PLD), electrolytes by e.g. PLD and sputtering, protective coatings and current collecting layers manufactured by e.g. electroplating, and nanostructured maintained during sintering by plasma sintering.

Biography:

Soren Linderoth is Professor in Functional ceramics for energy purposes. Head of Department (DTU Energy). Co-author of more than 200 scientific papers, and 30 patents.