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EuroTech Seminar

Atomic Layer Deposition for photovoltaics : how a specific thin film synthesis method can solve some device issues

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Zoom link:
https://dtudk.zoom.us/j/62435895795

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Photovoltaics are growing rapidly (+30-40% installed volume per year) and is facing many challenges (new usages, 4 to 8 TW capacity by 2050). Hence, academic and industrial communities are developing innovative solar cell architectures involving new materials and interfaces. To build such complicated devices, it is necessary to be able to synthesize nanomaterials with a fine control of the composition, thickness and morphology, under constrained conditions. In this context, ALD (Atomic Layer Deposition) has emerged as a powerful tool because of its unique advantages that I will illustrate with examples in various PV technologies.