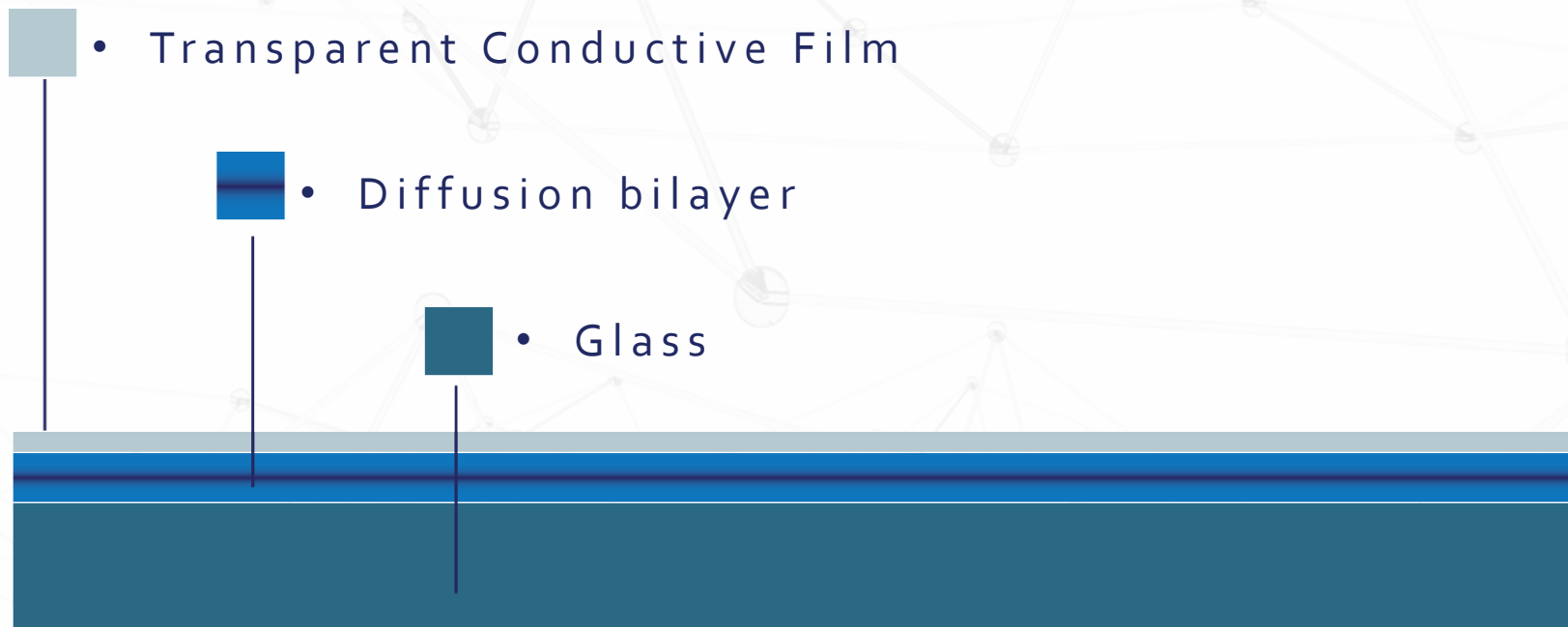


A large field of solar panels under a clear blue sky. The panels are arranged in neat rows and are tilted towards the sun. The background shows a line of trees and a clear horizon.

n e x · t e c TM

nex·t·c™ Solution



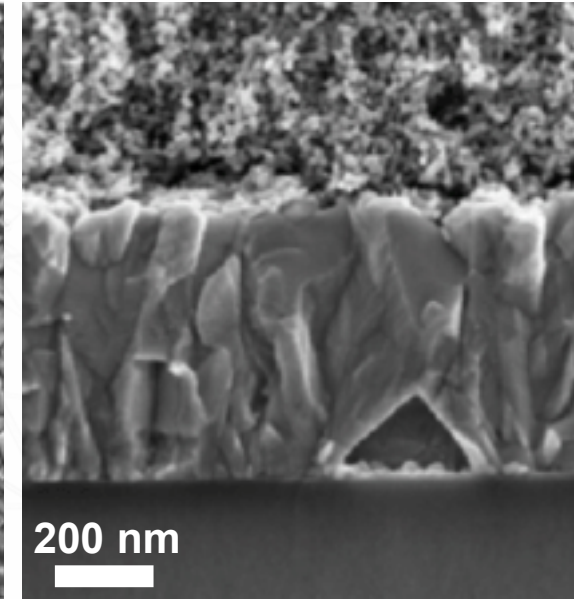
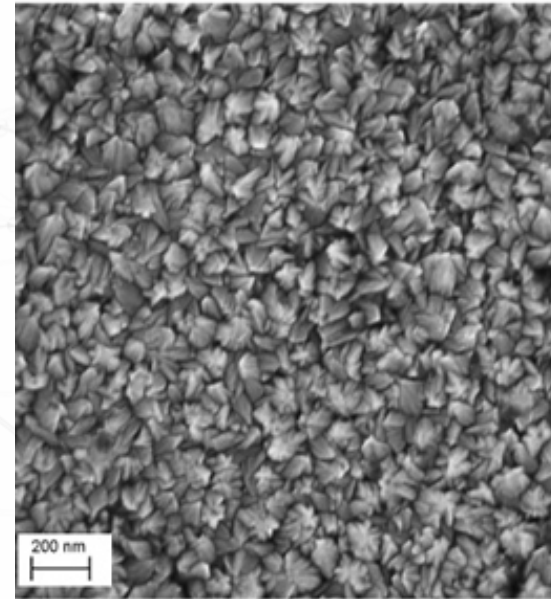
Industry Challenges

1 MATERIALS

- Low transmission
- Rough surfaces
- Low conductivity

2 COATING PROCESS

- Expensive (CapEx and OpEx)
- Energy intensive
- Expensive material costs



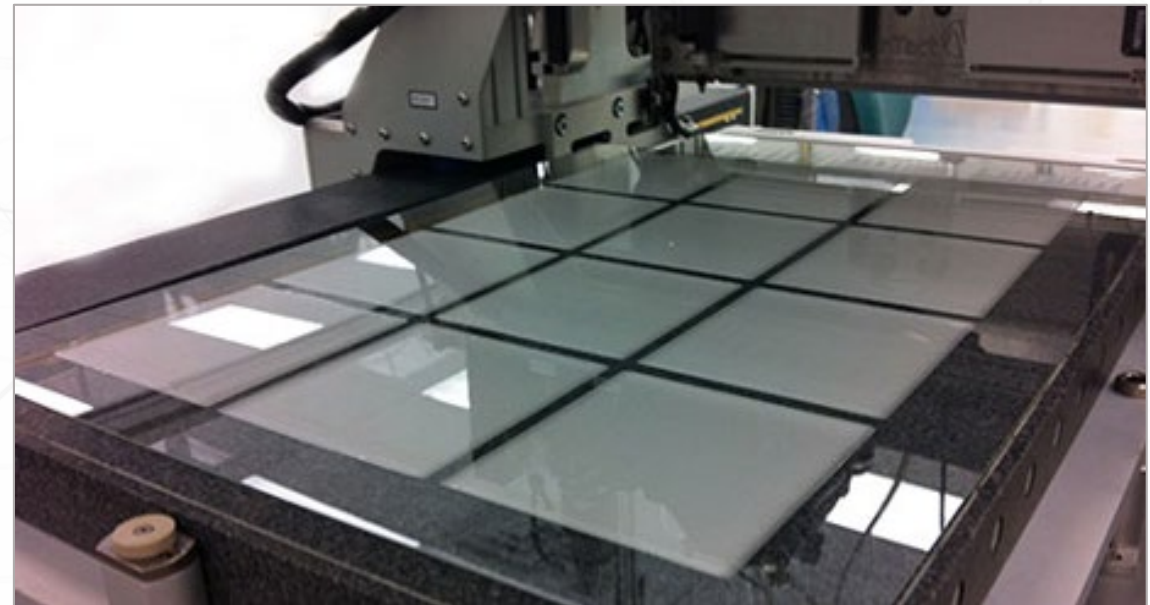
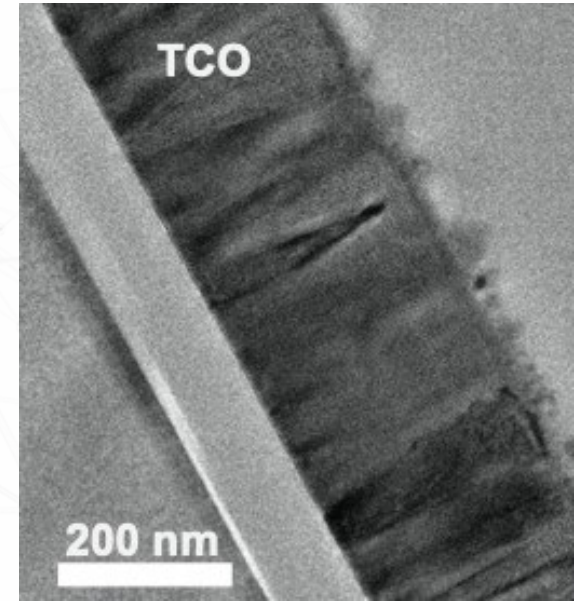
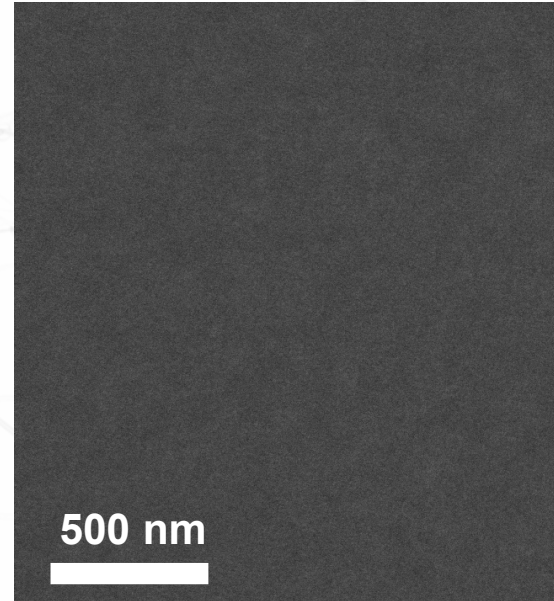
n e x · t c TM Solution

1 MATERIALS

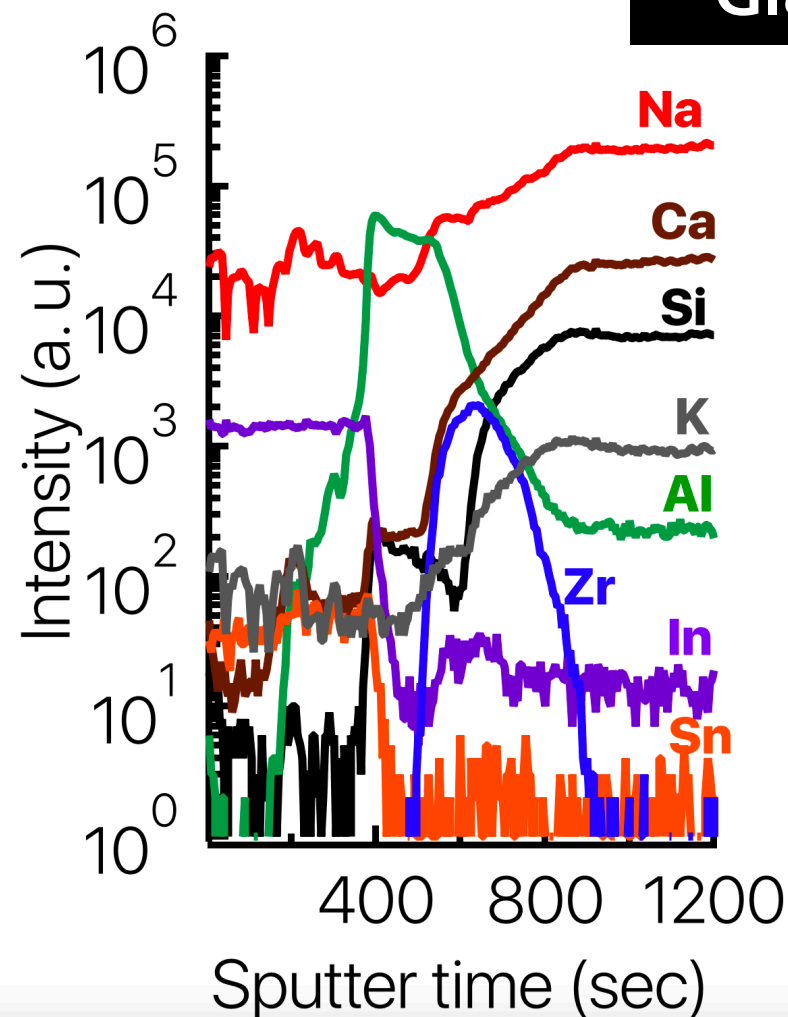
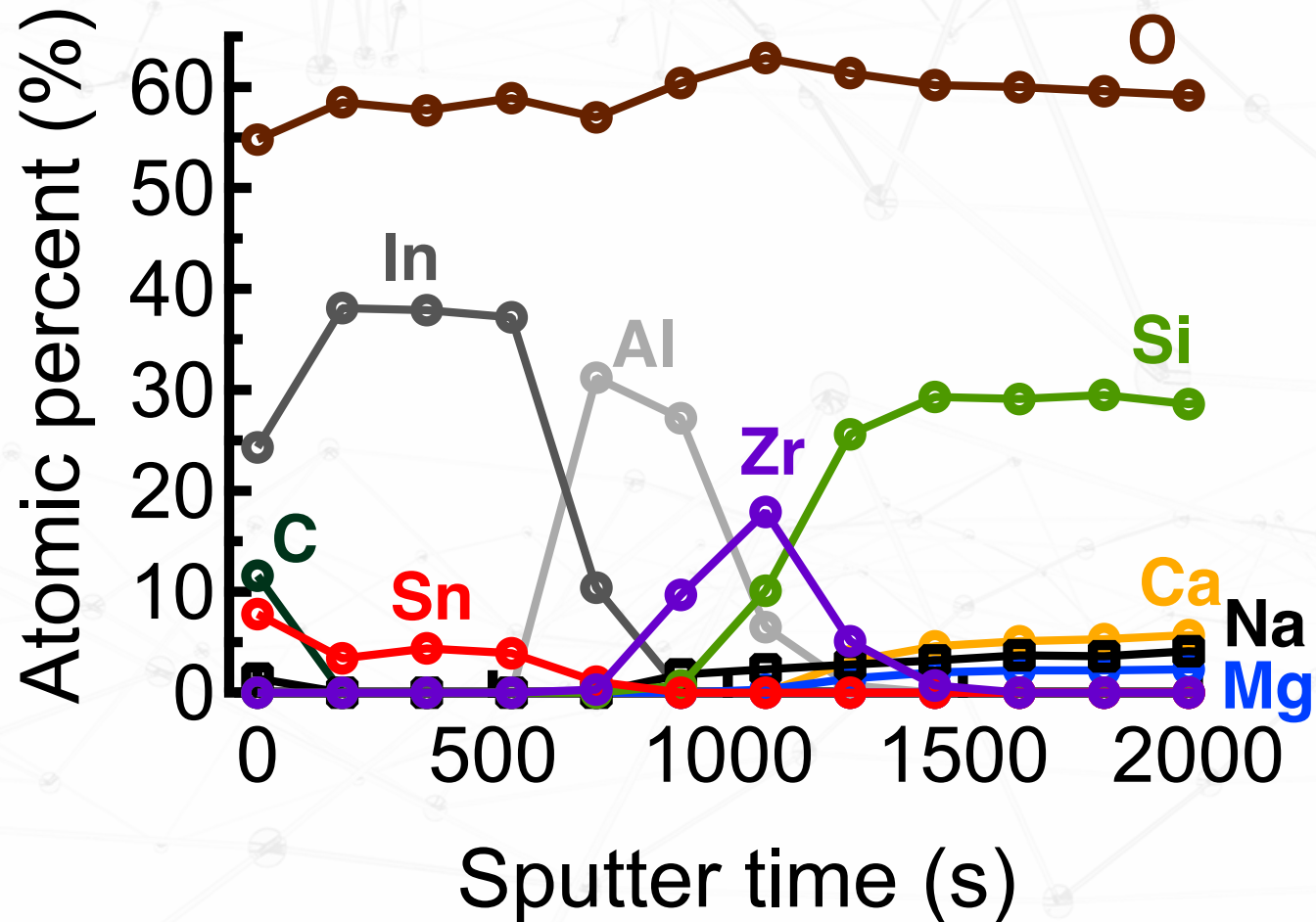
- Low materials cost
- Smooth/pristine surfaces
- State-of-the-art performance

2 COATING PROCESS

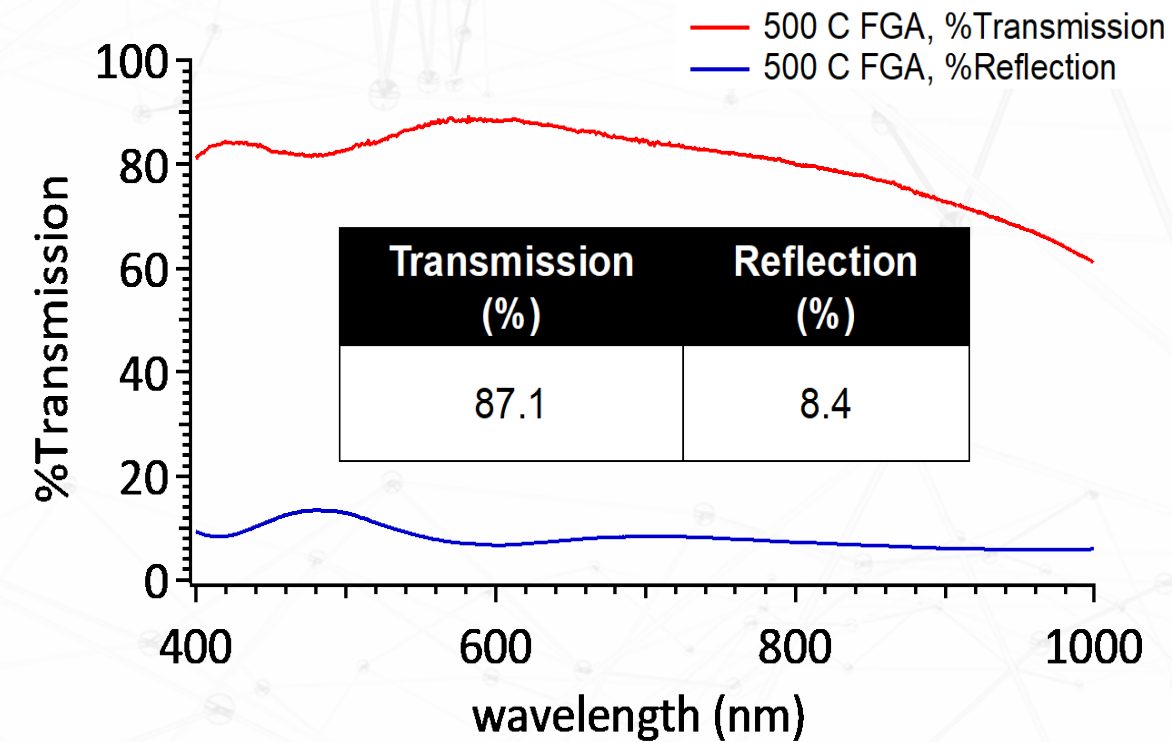
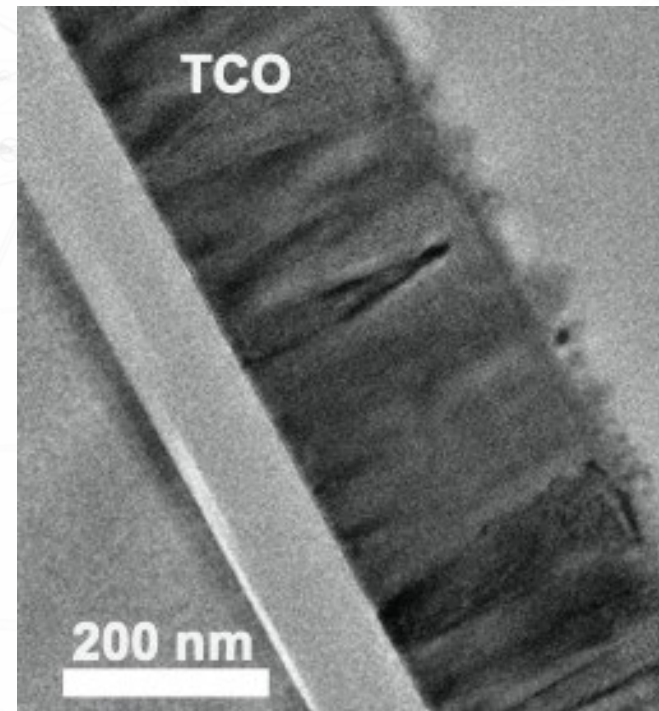
- Low CapEx and OpEx
- Precision coating



Diffusion bilayer



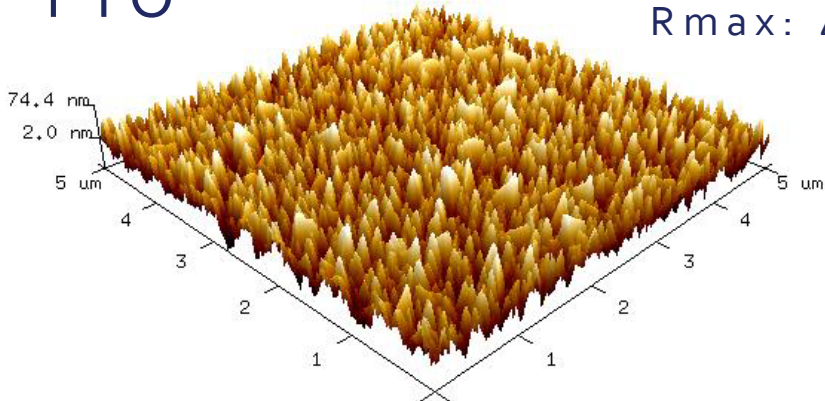
TCO



Sample	Thickness (nm)	Resistivity (ohm • cm)	Carrier Concentration (cm ³)	Mobility (cm ² /VS)
Commercial ITO	250	1.99×10^{-4}	9.46×10^{20}	33.2
nexTC	305	2.89×10^{-4}	1.02×10^{21}	21.2

Functional coatings

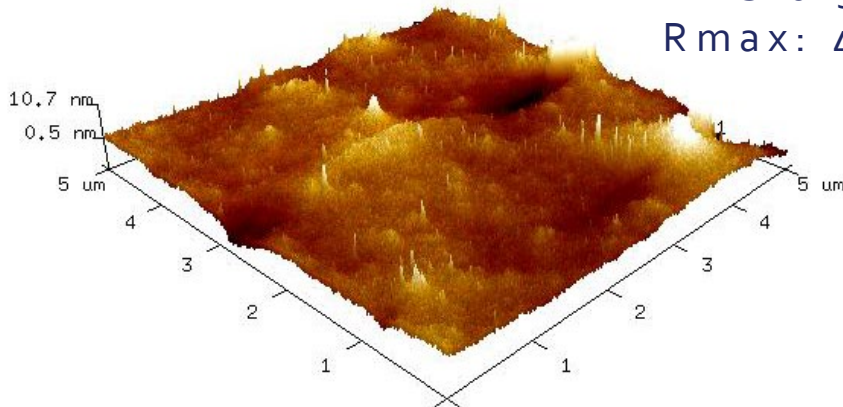
FTO



RMS 21.4 nm
Rmax: 49 nm

- Improved sheet resistance
- Low-surface roughness
- Advanced materials sets

nexTC coated FTO



RMS 0.37 nm
Rmax: 4 nm

n e x · t c TM Team



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Thank you!

nextc™

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