



# Two birds with one tool: using thermocompression for both metallic contact annealing and wafer bonding of GaAs solar cells

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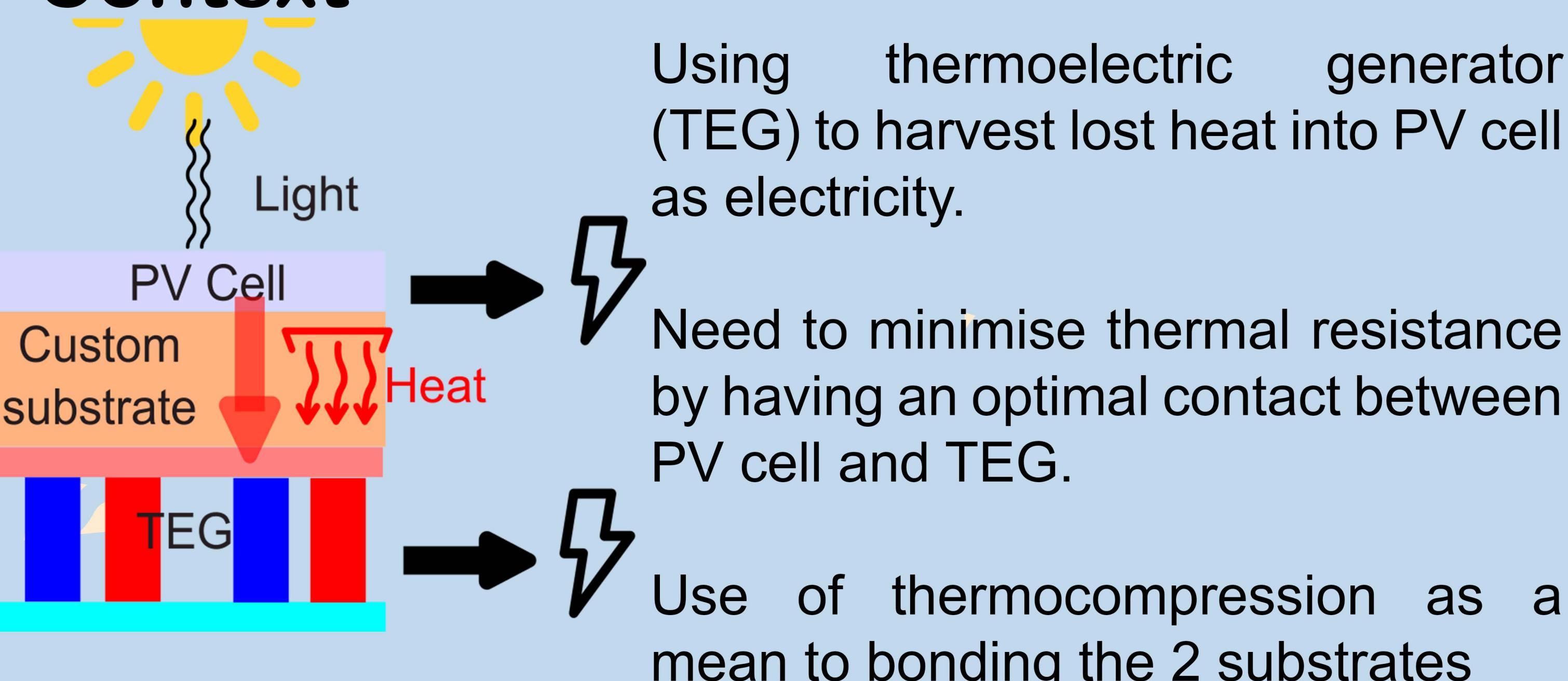
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# Two birds with one tool: using thermocompression for both metallic contact annealing and wafer bonding of GaAs solar cells

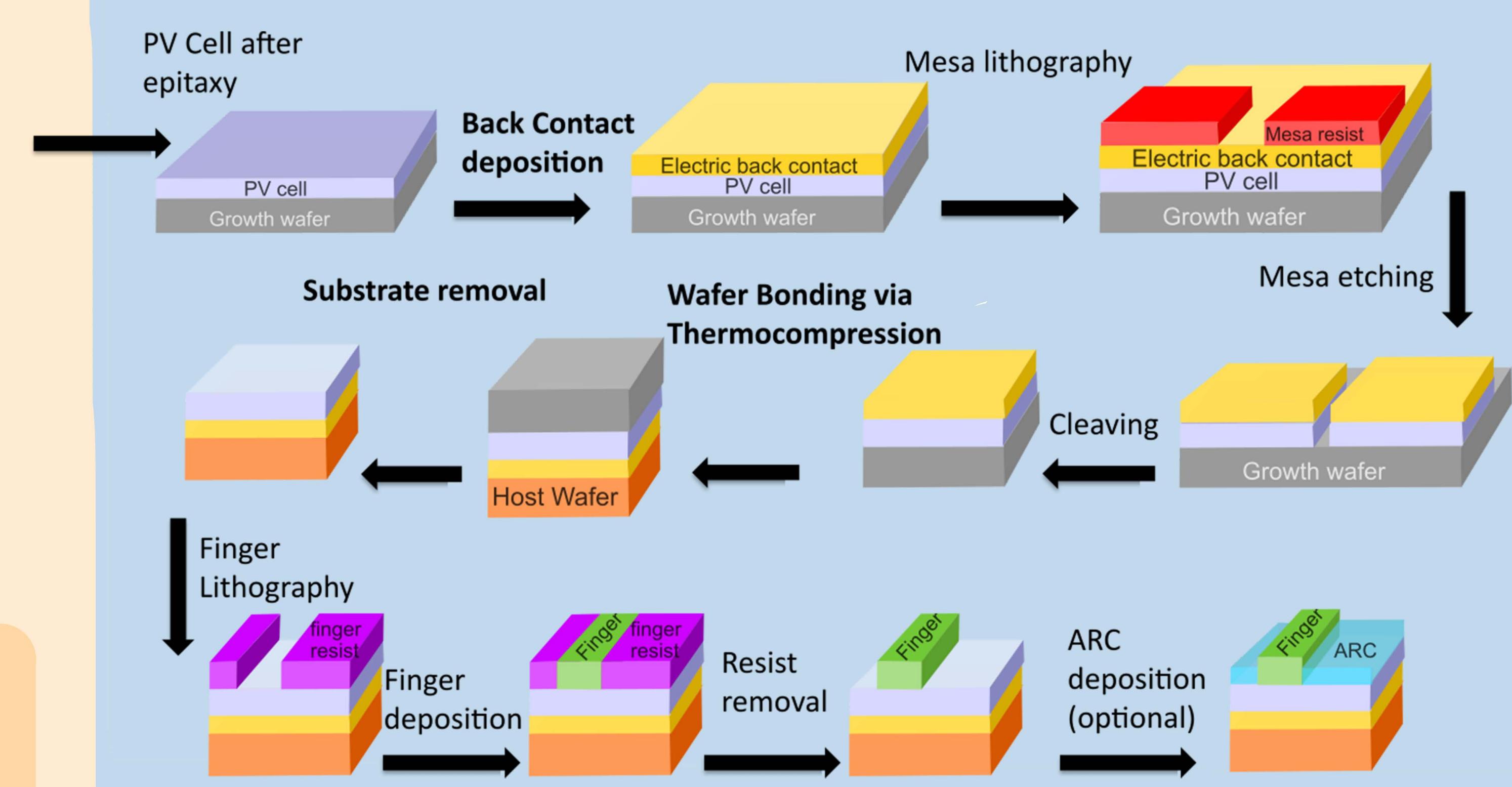
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## Context

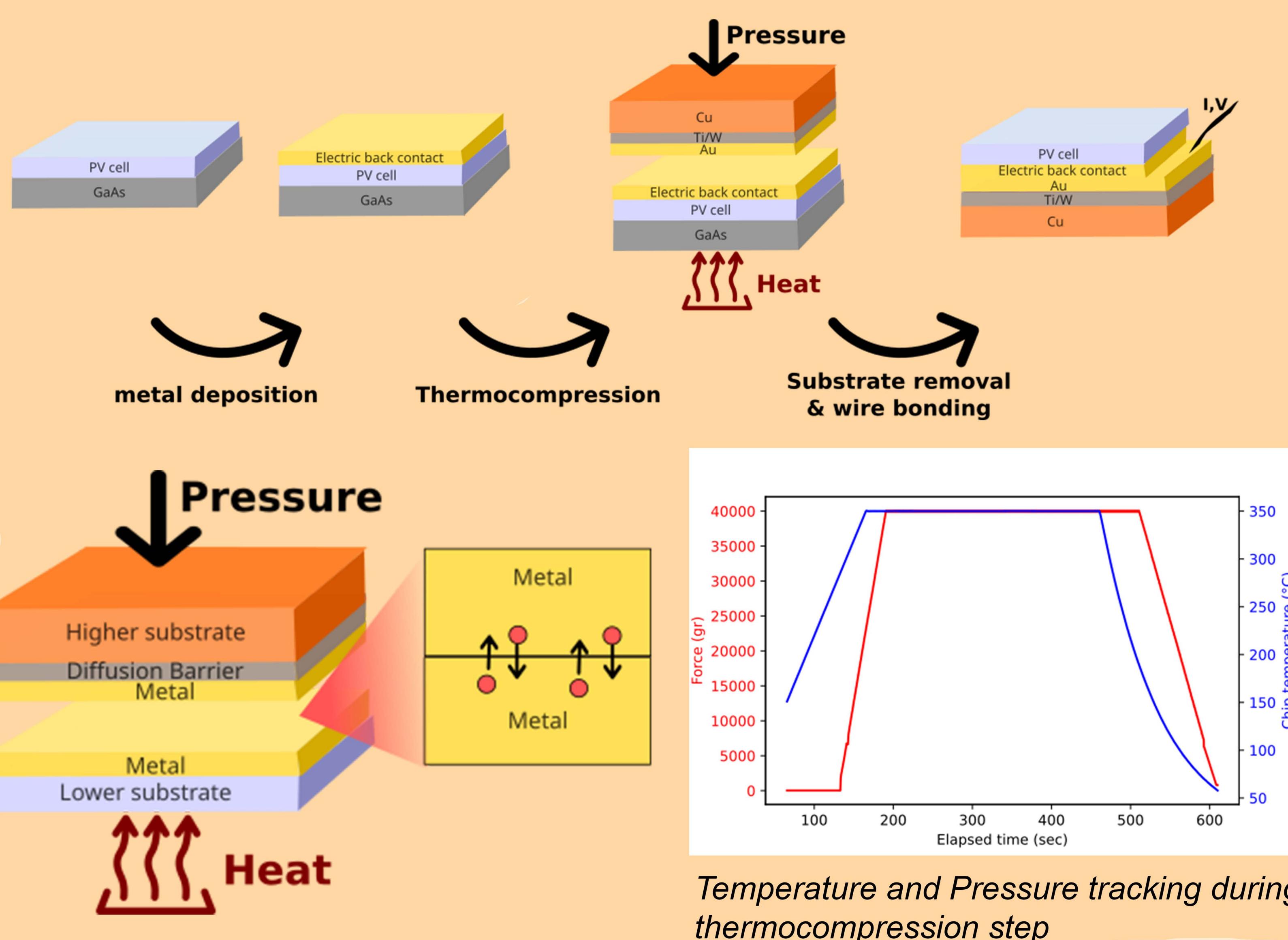


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## The full process to transfer the cell onto the TEG



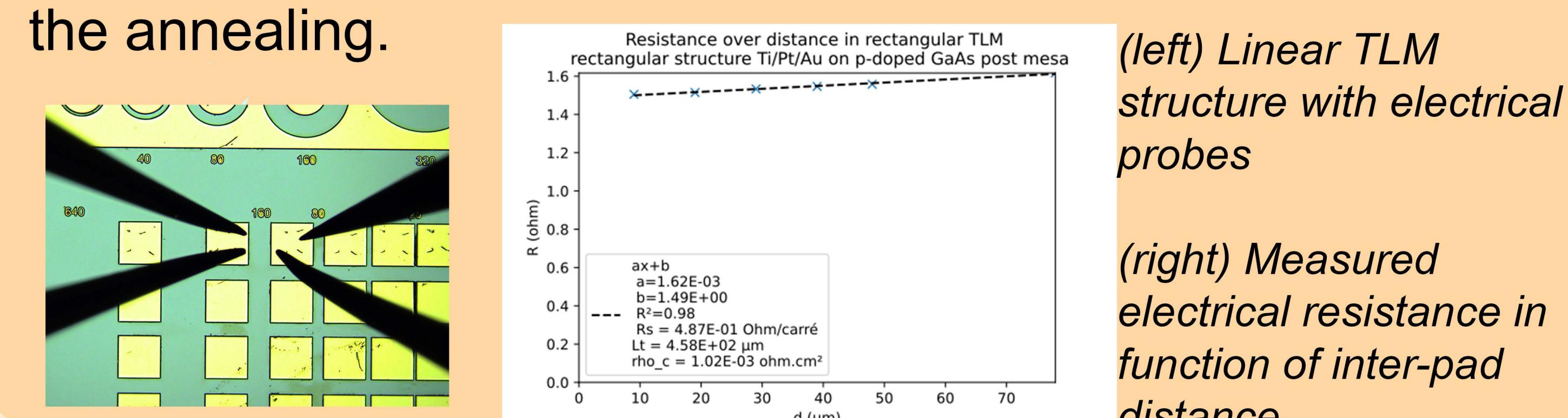
## Focus on the Thermocompression



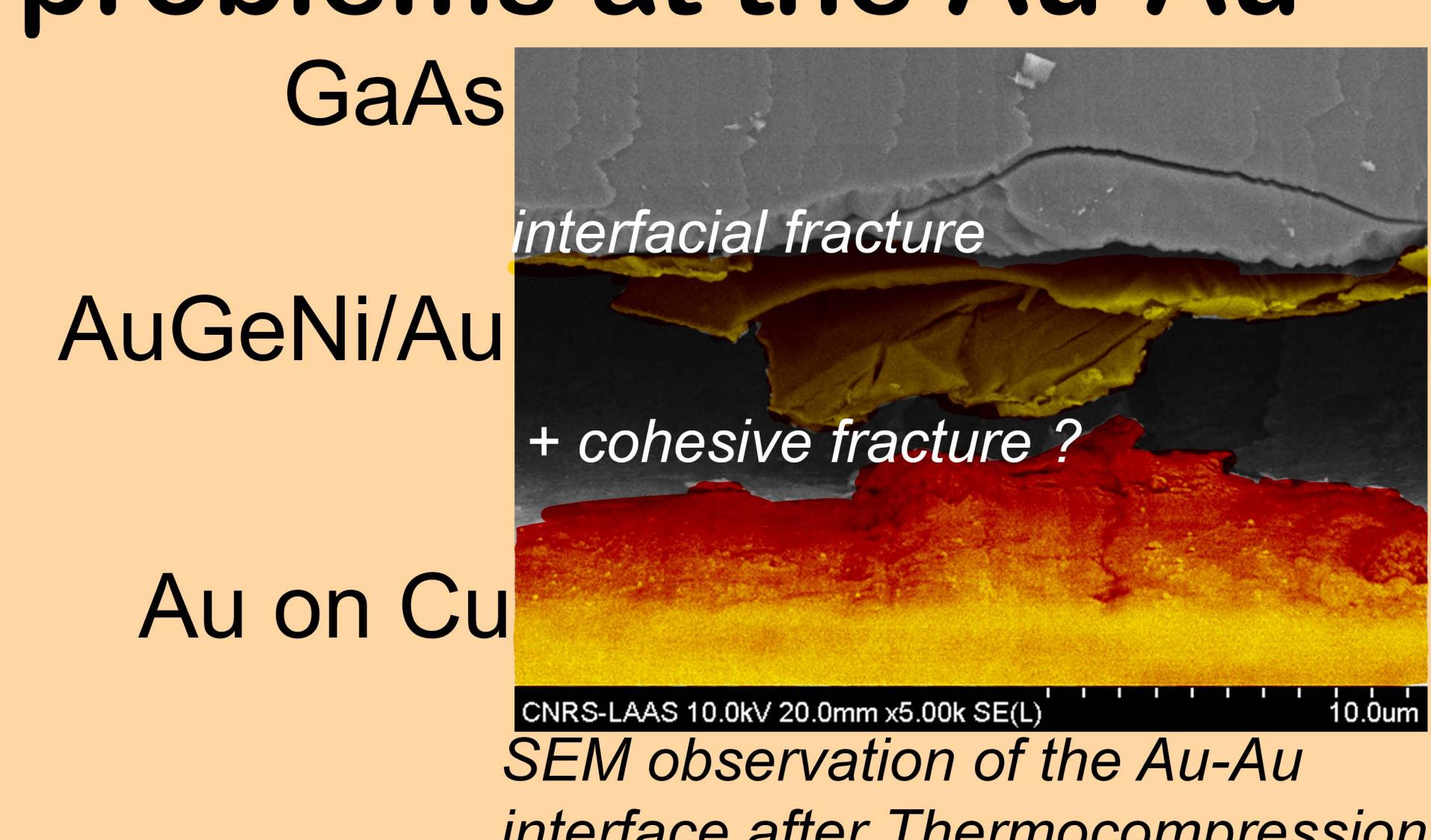
## Electrical characterization

We use thermocompression to anneal the metal-semiconductor contact.

The thermic cycle of thermocompression is 30x longer than a classic annealing done via RTA and we also apply pressure on the substrate. Because of these differences from RTA, we use TLM structure to measure the quality of the annealing.



## Adhesion problems at the Au-Au interface



## Towards a more complex interface

