

Growing circuits

Instead, Lin's team grew nanowires and nanotubes directly on a circuit board by pass through a wire to heat a desired location.

The researchers used a gold-palladium alloy with silane vapor to create silicon nanow nickel-iron alloy with acetylene vapor to create carbon nanotubes.

In one experiment, an area was heated to a 700°C while another spot just micrometer remained a balmy 25°C.

The researchers are continuing experiments to fine-tune the temperatures and length time.

"This is a very unique approach," says Lin. "This method allows the production of an based sensor in a process similar to creating computer chips. There would be no post required."

Such a sensor could serve as an early-stage disease detector that could signal the pr single virus.

It could also serve as an ultra-sensitive biochemical sensor triggered by mere molecu agent.

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