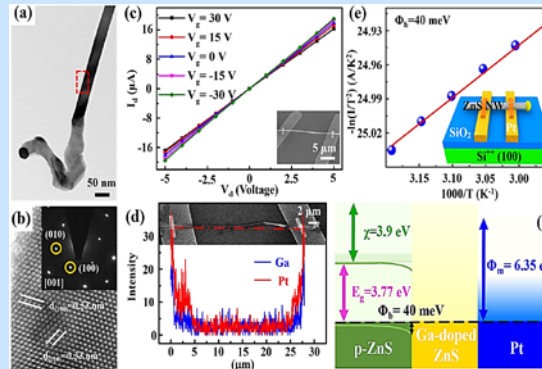




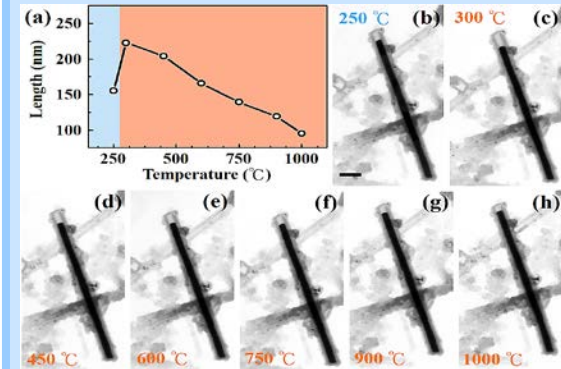
# Advanced Semiconductors & Devices Lab.

## Single nanowires as high-gain photosensors



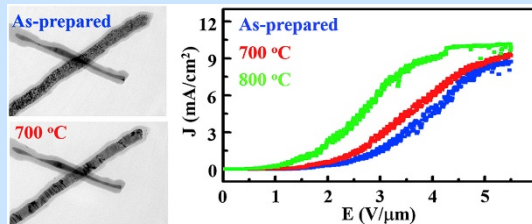
*Nanotechnology*, 2017, 28, 395201.

## M-MO<sub>x</sub> nanothermometers



*Nanotechnology*, 2017, 28, 045705.

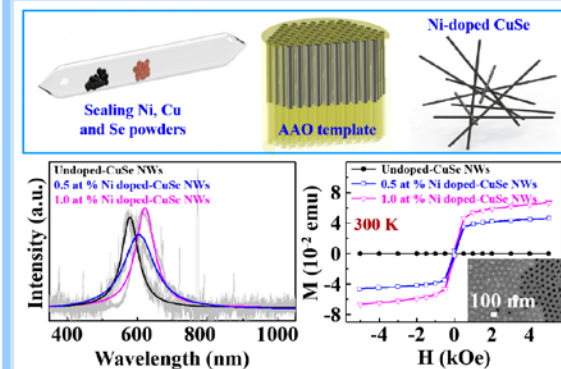
## Solution-grown Cu<sub>3</sub>Si NWs array for field emitters



	As-prepared	Annealed @ 700 °C	Annealed @ 800 °C
Enhancement factor ( $\beta$ )	1400	2810	4637
Turn-on field (V/ $\mu$ m)	1.20	0.66	0.40

*J. Alloy. Compd.*, 2018, 735, 2373.

## Tunable optical & magnetic properties of Ni-CuSe NWs



*Nanotechnology*, 2019, Accepted.

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