

Advanced Semiconductors & Devices Lab.



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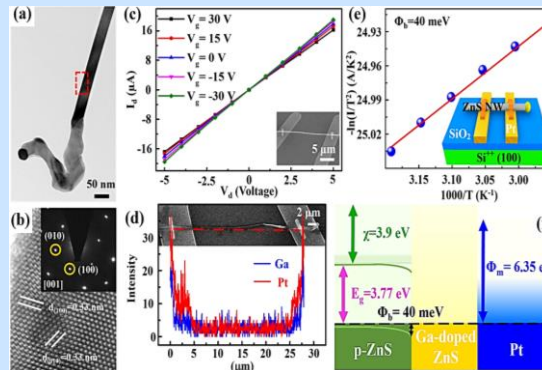
Education:

Ph.D. of Materials Sci. & Eng.
National Tsing Hua University

Lectures:

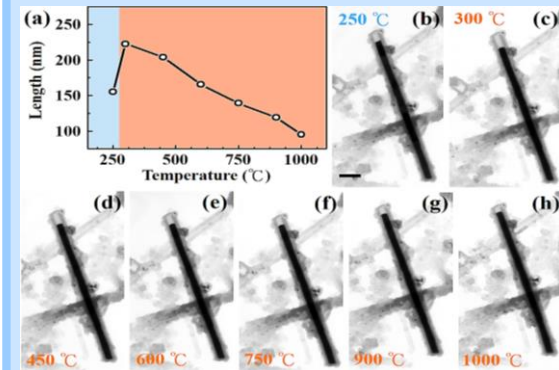
- Principles and Applications of Semiconductors
- Materials Science
- Kinetics and Phase Transformation of Materials

Single nanowires as high-gain photosensors



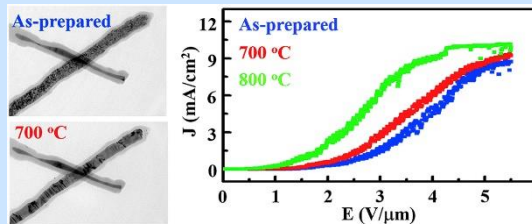
Nanotechnology, 2017, 28, 395201.

M-MO_x nanothermometers



Nanotechnology, 2017, 28, 045705.

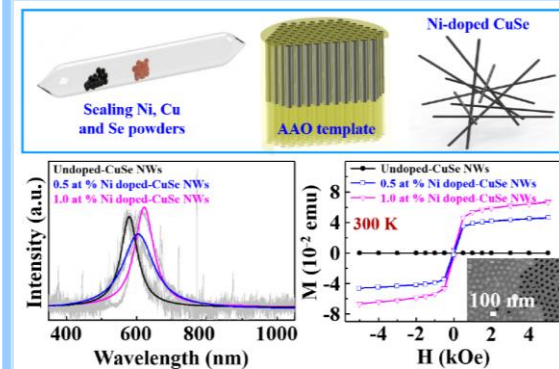
Solution-grown Cu₃Si NWs array for field emitters



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

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

Tunable optical & magnetic properties of Ni-CuSe NWs



Nanotechnology, 2019, Accepted.