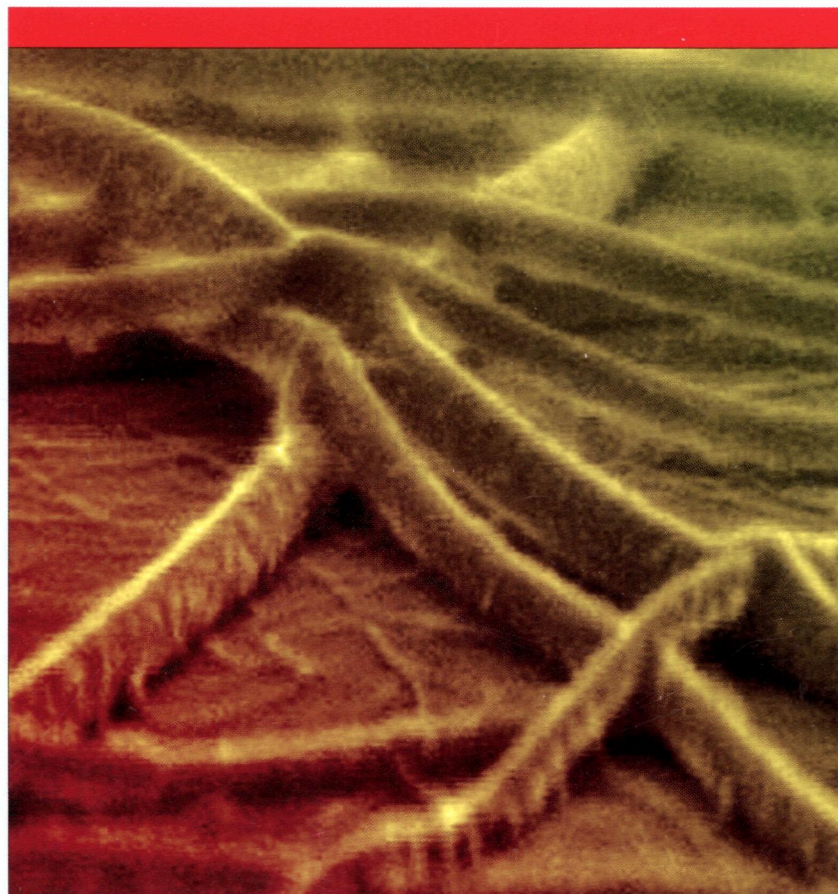


774  
N21

# NANOTECHNOLOGY

VOLUME 25 NUMBER 28 18 JULY 2014



[iopscience.org/nano](http://iopscience.org/nano)

**Featured article**

Highly conductive and stretchable Ag nanowire/carbon  
nanotube hybrid conductors

*J Y Woo, K K Kim, J Lee, J T Kim and C-S Han*

# NANOTECHNOLOGY

---

Volume 25

Number 28

18 July 2014

## PAPERS

### Biology and medicine

- 285101 Surfactant-free purification of membrane protein complexes from bacteria: application to the staphylococcal penicillin-binding protein complex PBP2/PBP2a**  
Sarah Paulin, Mohammed Jamshad, Timothy R Dafforn, Jorge Garcia-Lara, Simon J Foster, Nicola F Galley, David I Roper, Helena Rosado and Peter W Taylor

### Electronics and photonics

- 285201 Dynamic computing random access memory**  
F L Traversa, F Bonani, Y V Pershin and M Di Ventra
- 285202 Low-frequency electrical fluctuations in metal–nanowire–metal phototransistors**  
Ming-Pei Lu, Ming-Yen Lu and Ying-Jhe Wang
- 285203 Highly conductive and stretchable Ag nanowire/carbon nanotube hybrid conductors**  
Ju Yeon Woo, Kyun Kyu Kim, Jongsoo Lee, Ju Tae Kim and Chang-Soo Han

### Patterning and nanofabrication

- 285301 Low-temperature plasma etching of high aspect-ratio densely packed 15 to sub-10 nm silicon features derived from PS-PDMS block copolymer patterns**  
Zuwei Liu, Xiaodan Gu, Justin Hwu, Simone Sassolini and Deirdre L Olynick
- 285302 Fabrication of graphene-based flexible devices utilizing a soft lithographic patterning method**  
Min Wook Jung, Sung Myung, Ki Woong Kim, Wooseok Song, You-Young Jo, Sun Suk Lee, Jongsun Lim, Chong-Yun Park and Ki-Seok An
- 285303 Material versatility using replica molding for large-scale fabrication of high aspect-ratio, high density arrays of nano-pillars**  
Y Li, H W Ng, B D Gates and C Menon

### Sensing and actuating

- 285501 Planar temperature sensing using heavy-metal-free quantum dots with micrometer resolution**  
Wenyan Liu, Yu Zhang, Hua Wu, Yi Feng, Tieqiang Zhang, Wenzhu Gao, Hairong Chu, Jingzhi Yin, Tian Cui, Yiding Wang, Jun Zhao and William W Yu
- 285502 An investigation on piezoresistive behavior of carbon nanotube/polymer composites: II. Positive piezoresistive effect**  
Zhifeng Wang and Xiongying Ye

### Materials: synthesis or self-assembly

- 285601 Highly foldable transparent conductive films composed of silver nanowire junctions prepared by chemical metal reduction**  
Yi-Ming Chang, Wen-Yung Yeh and Pin-Chu Chen

### Materials: properties, characterization or tools

- 285701 Cancer therapy improvement with mesoporous silica nanoparticles combining photodynamic and photothermal therapy**  
Z X Zhao, Y Z Huang, S G Shi, S H Tang, D H Li and X L Chen