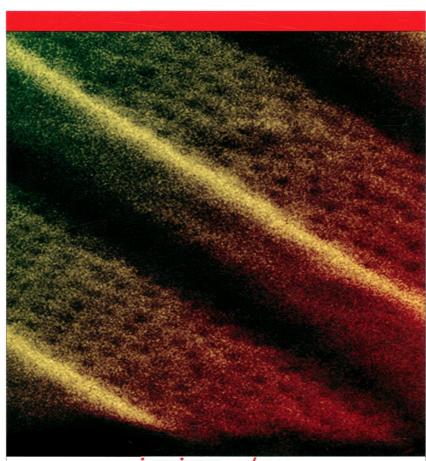
ISSN 0957-4484

MU N21

NANOTECHNOLOGY

Volume 25 Number 17 2 May 2014



iopscience.org/nano

Featured article

Order quantification of hexagonal periodic arrays fabricated by *in situ* solvent-assisted nanoimprint lithography of block copolymers C Simão, W Khunsin, N Kehagias, M Salaun, M Zelsmann, M A Morris and C M Sotomayor Torres

IOP Publishing

NANOTECHNOLOGY

Volume 25

Number 17

2 May 2014

PAPERS

| | - | | | |
|--------|--------|-----|------|---------|
| Electr | 'Onice | and | nhot | Onice |
| LICCLI | UIIIU | anu | PIIU | COLLICS |

175201 Vacuum filtration based formation of liquid crystal films of semiconducting carbon nanotubes and high performance transistor devices

Benjamin King and Balaji Panchapakesan

Patterning and nanofabrication

- 175301 Nanofabrication of high aspect ratio structures using an evaporated resist containing metal Celal Con, Jian Zhang and Bo Cui
- 175302 The micropatterning of layers of colloidal quantum dots with inorganic ligands using selective wet etching Chen Hu, Tangi Aubert, Yolanda Justo, Stijn Flamee, Marco Cirillo, Alban Gassenq, Oksana Drobchak, Filip Beunis, Günther Roelkens and Zeger Hens

Energy at the nanoscale

- 175401 Piezoelectric monolayers as nonlinear energy harvesters
 Miquel López-Suárez, Miguel Pruneda, Gabriel Abadal and Riccardo Rurali
- 175402 Carbon-decorated Li₄Ti₅O₁₂/rutile TiO₂ mesoporous microspheres with nanostructures as high-performance anode materials in lithium-ion batteries
 Lin Gao, Rujun Liu, Hao Hu, Guojian Li and Ying Yu

Sensing and actuating

- 175501 Mechanism and prominent enhancement of sensing ability to reducing gases in p/n core–shell nanofiber Akash Katoch, Sun-Woo Choi, Gun-Joo Sun, Hyoun Woo Kim and Sang Sub Kim
- 175502 Low-cost silver capped polystyrene nanotube arrays as super-hydrophobic substrates for SERS applications
 Pierre Lovera, Niamh Creedon, Hanan Alatawi, Micki Mitchell, Micheal Burke, Aidan J Quinn and
 Alan O'Riordan

Materials: synthesis or self-assembly

175601 Large area fabrication of vertical silicon nanowire arrays by silver-assisted single-step chemical etching and their formation kinetics
Sanjay K Srivastava, Dinesh Kumar, S W Schmitt, K N Sood, S H Christiansen and P K Singh

Materials: properties, characterization or tools

- 175701 High viscosity environments: an unexpected route to obtain true atomic resolution with atomic force microscopy

 Stefan A L Weber, Jason I Kilpatrick, Timothy M Brosnan, Suzanne P Jarvis and Brian J Rodriguez
- 175702 Serum-stable quantum dot-protein hybrid nanocapsules for optical bio-imaging
 Jeong Yu Lee, Dong Heon Nam, Mi Hwa Oh, Youngsun Kim, Hyung Seok Choi, Duk Young Jeon,
 Chan Beum Park and Yoon Sung Nam
- 175703 Order quantification of hexagonal periodic arrays fabricated by *in situ* solvent-assisted nanoimprint lithography of block copolymers
 Claudia Simão, Worawut Khunsin, Nikolaos Kehagias, Mathieu Salaun, Marc Zelsmann, Michael A Morris and Clivia M Sotomayor Torres

Федеральное государственное бюджетное учреждение науки Центральная научная библиотека Уральского отделения Российской академии наук (ЦНБ УрО РАН)