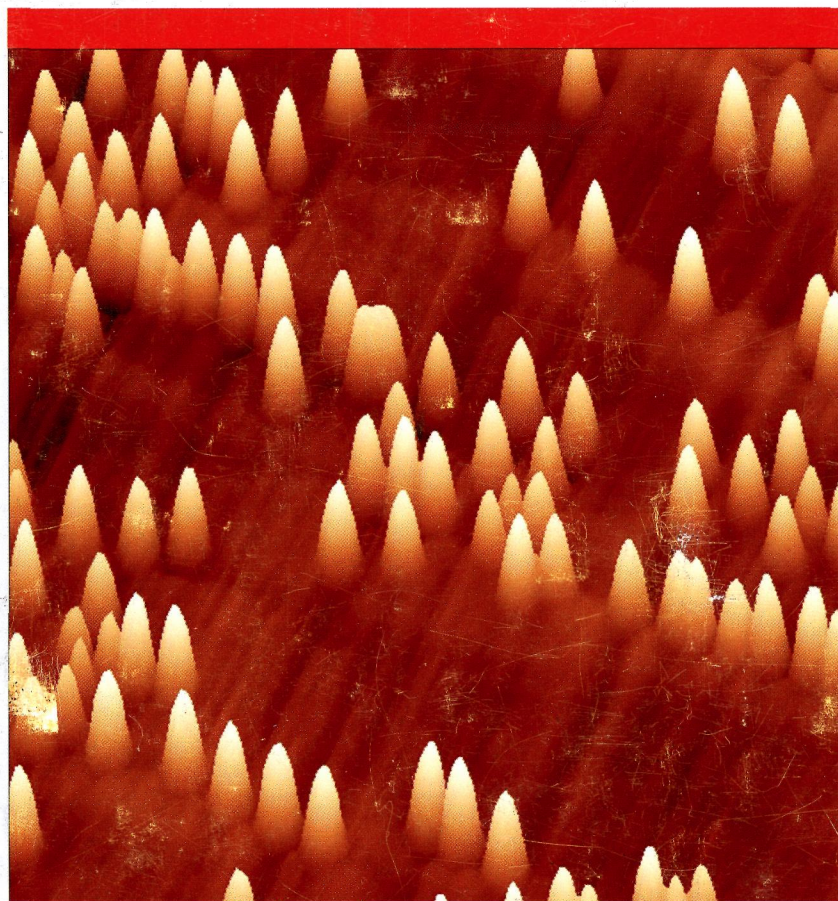


174
N 21

ISSN 0957-4484

NANOTECHNOLOGY

VOLUME 24 NUMBER 7 22 FEBRUARY 2013



iopscience.org/nano

Featured article

Strong passivation effects on the properties
of an InAs surface quantum dot hybrid structure
*A Lin, B L Liang, V G Dorogan, Yu I Mazur, G G Tarasov,
G J Salamo and D L Huffaker*

IOP Publishing

NANOTECHNOLOGY

Volume 24

Number 7

22 February 2013

PAPERS

Biology and medicine

- 075101 **Synthesis, characterization and target protein binding of drug-conjugated quantum dots *in vitro* and in living cells**
Youngseon Choi, Minjung Kim, Yoojin Cho, Eunsuk Yun and Rita Song
- 075102 **Poly(amino acid) functionalized maghemite and gold nanoparticles**
Davide Perego, Norberto Masciocchi, Antonietta Guagliardi, José Manuel Domínguez-Vera and Natividad Gálvez
- 075103 **Cytotoxicity and expression of genes involved in the cellular stress response and apoptosis in mammalian fibroblast exposed to cotton cellulose nanofibers**
M M Pereira, N R B Raposo, R Brayner, E M Teixeira, V Oliveira, C C R Quintão, L S A Camargo, L H C Mattoso and H M Brandão

Electronics and photonics

- 075201 **Size dependent competition between second harmonic generation and two-photon luminescence observed in gold nanoparticles**
Hai-Dong Deng, Guang-Can Li, Qiao-Feng Dai, Min Ouyang, Sheng Lan, Vyacheslav A Trofimov and Tatiana M Lysak
- 075202 **Graphene transparent electrode for enhanced optical power and thermal stability in GaN light-emitting diodes**
Doo-Hyeb Youn, Young-Jun Yu, HongKyw Choi, Suck-Hwan Kim, Sung-Yool Choi and Choon-Gi Choi

Patterning and nanofabrication

- 075301 **Solution-processed soldering of carbon nanotubes for flexible electronics**
K D M Rao, B Radha, K C Smith, T S Fisher and G U Kulkarni
- 075302 **In-plane organization of silicon nanocrystals embedded in SiO₂ thin films**
C Castro, S Schamm-Chardon, B Pecassou, A Andreozzi, G Seguini, M Perego and G BenAssayag
- 075303 **Direct patterning of high density sub-15 nm gold dot arrays using ultrahigh contrast electron beam lithography process on positive tone resist**
L Y M Tobing, L Tjahjana and D H Zhang

Materials: synthesis or self-assembly

- 075601 **Suppression of the coffee-ring effect by self-assembling graphene oxide and monolayer titania**
Pengzhan Sun, Renzhi Ma, Kunlin Wang, Minlin Zhong, Jinquan Wei, Dehai Wu, Takayoshi Sasaki and Hongwei Zhu

Materials: properties, characterization or tools

- 075701 **Strong passivation effects on the properties of an InAs surface quantum dot hybrid structure**
A Lin, B L Liang, V G Dorogan, Yu I Mazur, G G Tarasov, G J Salamo and D L Huffaker
- 075702 **Radial vibration of free anisotropic nanoparticles based on nonlocal continuum mechanics**
Esmaeel Ghavanloo and S Ahmad Fazelzadeh
- 075703 **Enhanced luminescence of Ag nanoclusters via surface modification**
Patrick T K Chin, Marte van der Linden, Elleke J van Harten, Arjan Barendregt, Marcus T M Rood, Abraham J Koster, Fijs W B van Leeuwen, Celso de Mello Donega, Albert J R Heck and Andries Meijerink
- 075704 **Real time radiation dosimeters based on vertically aligned multiwall carbon nanotubes and graphene**
Maria Funaro, Maria Sarno, Paolo Ciambelli, Claudia Altavilla and Antonio Proto

