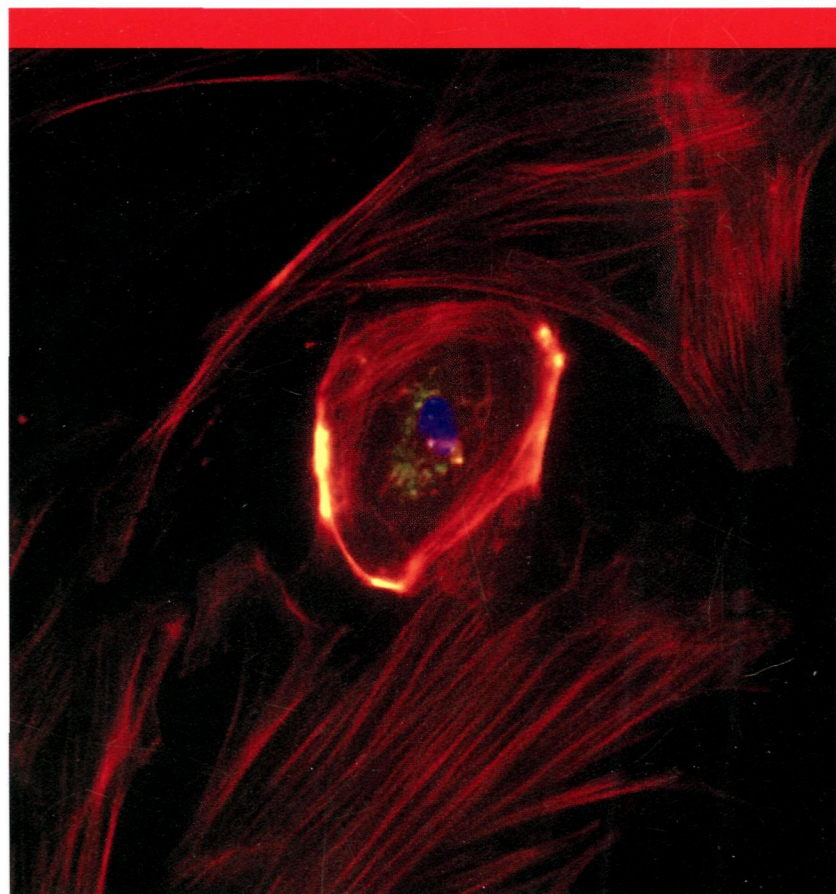


TU
N 21

ISSN 0957-4484

NANOTECHNOLOGY

VOLUME 25 NUMBER 6 14 FEBRUARY 2014



iopscience.org/nano

Featured article

Multistructural biomimetic substrates
for controlled cellular differentiation
*A I Orza, C Mihiu, O Soritau, M Diudea,
A Florea, H Matei, S Balici, T Mudalige,
G K Kanarparady and A S Biris*

IOP Publishing

NANOTECHNOLOGY

Volume 25

Number 6

14 February 2014

PAPERS

Biology and medicine

- 065101 **Enhanced cell growth by nanoengineering zirconia to stimulate electrostatic fibronectin activation**
A I Rubinstein, R F Sabirianov and F Namavar
- 065102 **Multistructural biomimetic substrates for controlled cellular differentiation**
Anamaria I Orza, Carmen Mihi, Olga Soritau, Mircea Diudea, Adrian Florea, Horea Matei, Stefana Balici, Thilak Mudalige, Ganesh K Kanarpardy and Alexandru S Biris

Electronics and photonics

- 065201 **Highly reliable field electron emitters produced from reproducible damage-free carbon nanotube composite pastes with optimal inorganic fillers**
Jae-Woo Kim, Jin-Woo Jeong, Jun-Tae Kang, Sungyoul Choi, Seungjoon Ahn and Yoon-Ho Song

Patterning and nanofabrication

- 065301 **Encapsulate-and-peel: fabricating carbon nanotube CMOS integrated circuits in a flexible ultra-thin plastic film**
Pingqi Gao and Qing Zhang

Energy at the nanoscale

- 065401 **Solution-processed $\text{Cu}_2\text{ZnSnS}_4$ superstrate solar cell using vertically aligned ZnO nanorods**
Dongwook Lee and Kijung Yong

Materials: synthesis or self-assembly

- 065601 **Light responsive thin films of micelles of PS-*b*-PVP complexed with diazophenol chromophore**
Luciana M Saiz, Patricia A Oyanguren, María José Galante and Ileana A Zucchi
- 065602 **Engineering of a Pluronic F127 functionalized magnetite/graphene nanohybrid for chemophototherapy**
Yongyong Li, Jiaqiang Liu, Haiqing Dong, Guangzhen Liu and Haiqing Hu

Materials: properties, characterization or tools

- 065701 **A three-dimensional carbon nanotube network for water treatment**
L Camilli, C Pisani, E Gautron, M Scarselli, P Castrucci, F D'Orazio, M Passacantando, D Moscone and M De Crescenzi
- 065702 **pVEGF-loaded lipopolysaccharide-amine nanopolymersomes for therapeutic angiogenesis**
Wei Teng, Zhonghui Huang, Ying Chen, Lichun Wang, Qinmei Wang and Hongzhang Huang
- 065703 **Monodispersed LaF_3 nanocrystals: shape-controllable synthesis, excitation-power-dependent multi-color tuning and intense near-infrared upconversion emission**
Ling Rao, Wei Lu, Guozhong Ren, Haibo Wang, Zhigao Yi, Hongrong Liu and Songjun Zeng
- 065704 **Ferroelectric properties of composites containing BaTiO_3 nanoparticles of various sizes**
Jens Adam, Tobias Lehnert, Gabi Klein and Robert M McMeeking