



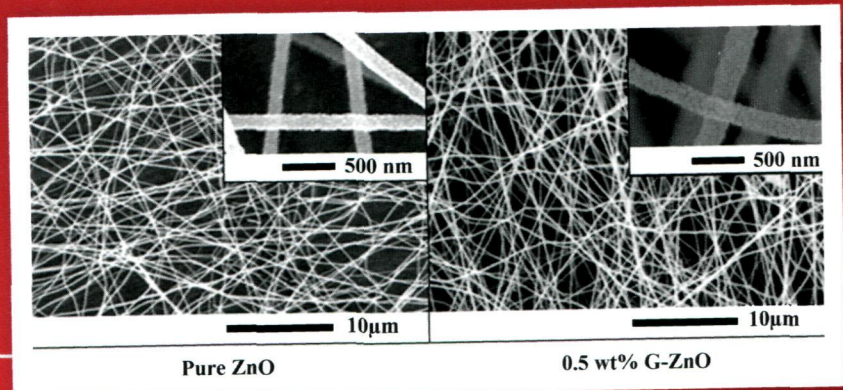
Applied Surface Science

A JOURNAL DEVOTED TO APPLIED PHYSICS
AND CHEMISTRY OF SURFACES AND INTERFACES

H. RUDOLPH EDITOR-IN-CHIEF

EDITORS

J.G. CHEN
A.R. GONZÁLEZ-ELIPE
W. HUANG
P. KINGSHOTT
H. KOBAYASHI
T. KOMEDA
T. LIPPERT
C.F. MCCONVILLE
M.F. MONTEMOR
R.L. OPILA
F. ROSEI
P. SCHAAF
A. TEPLYAKOV



applied surface science

Contents

Volume 294 (2014)

Regular papers

- Epitaxial growth of homogeneous single-crystalline AlN films on single-crystalline Cu (1 1 1) substrates
W. Wang, W. Yang, Z. Liu, Y. Lin, S. Zhou, H. Qian, F. Gao, H. Yang and G. Li 1
- The microstructures and corrosion properties of polycrystalline copper induced by high-current pulsed electron beam
Z. Zhang, S. Yang, P. Lv, Y. Li, X. Wang, X. Hou and Q. Guan 9
- Laser-assisted fragmentation of Al particles suspended in liquid
P.G. Kuzmin, G.A. Shafeev, A.A. Serkov, N.A. Kirichenko and M.E. Shcherbina 15
- Improvement of mechanical durability on organic TFT with printed electrodes prepared from nanoparticle ink
T. Sekine, H. Ikeda, A. Kosakai, K. Fukuda, D. Kumaki and S. Tokito 20
- Electrospun graphene-ZnO nanofiber mats for photocatalysis applications
S. An, B.N. Joshi, M.W. Lee, N.Y. Kim and S.S. Yoon 24
- Electrochemical capacitance characteristics of patterned ruthenium dioxide-carbon nanotube nanocomposites grown onto graphene
Y.-T. Shih, K.-Y. Lee and Y.-S. Huang 29
- Controlled facile synthesis and photocatalytic activity of ultrafine high crystallinity TiO₂ nanocrystals with tunable anatase/rutile ratios
Y. Gao, H. Wang, J. Wu, R. Zhao, Y. Lu and B. Xin 36
- A DFT study of the stoichiometric and reduced anatase (0 0 1) surfaces
Y. Ortega, D.F. Hevia, J. Oviedo and M.A. San-Miguel 42
- Droplets engulfing on a filament
X.-F. Wu, M. Yu, Z. Zhou, A. Bedarkar and Y. Zhao 49
- Electrical, optical and micro-structural properties of ultra-thin HfTiON films
J. Zhang, Z. Li, H. Zhou, C. Ye and H. Wang 58
- Effects of acoustic wave resonance oscillation on immobilized enzyme
H. Nishiyama, T. Watanabe and Y. Inoue 66
- Adsorption removal of acid black 1 from aqueous solution using ordered mesoporous carbon
X. Peng, X. Hu, D. Fu and F.L.Y. Lam 71
- Preparation and property of polyurethane/nanosilver complex fibers
R. Qu, J. Gao, B. Tang, Q. Ma, B. Qu and C. Sun 81
- Synthesis and characterization of C-doped TiO₂ thin films for visible-light-induced photocatalytic degradation of methyl orange
M.E. Hassan, L. Cong, G. Liu, D. Zhu and J. Cai 89

Correspondence

- Scaling of HfO₂ dielectric on CVD graphene
S. McDonnell, A. Azcatl, G. Mordi, C. Floresca, A. Pirkle, L. Colombo, J. Kim, M. Kim and R.M. Wallace 95

Erratum

- Corrigendum to "Band alignment of ZnO/CdSe quantum dots heterojunction determined by ultraviolet photoelectron spectroscopy using synchrotron radiation" [Appl. Surf. Sci. 276 (2013) 258–261]
R. Li, C. Cai, L. Hu, H. Wu, W. Zhang and J. Zhu 100

