ISSN 0953-8984

Journal of Physics

Condensed Matter

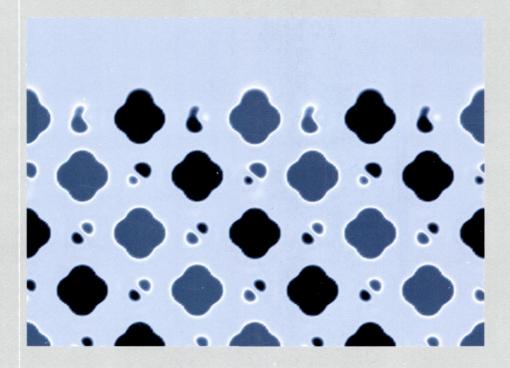
Volume 25 Number 9 6 March 2013

Featured in this issue

Surface, Interface and Atomic-Scale Science

Special section

Correlation and many-body effects at surfaces Guest editors: Antonio Tejeda, Enrique Garcia Michel and Arantzazu Mascaraque



iopscience.org/jpcm

IAP Dublishing

Journal of Physics

Condensed Matter

Volume 25 Number 9 6 March 2013

SPECIAL SECTION ON CORRELATION AND MANY-BODY EFFECTS AT SURFACES

PREFACE

O90301 The dimensionality reduction at surfaces as a playground for many-body and correlation effects A Tejeda, E G Michel and A Mascaraque

SPECIAL SECTION PAPERS

D94001 Electron-phonon coupling in quasi-free-standing graphene
 Jens Christian Johannsen, Søren Ulstrup, Marco Bianchi, Richard Hatch, Dandan Guan, Federico Mazzola,
 Liv Hornekær, Felix Fromm, Christian Raidel, Thomas Seyller and Philip Hofmann

094002 Exploring highly correlated materials via electron pair emission: the case of NiO/Ag(100) F O Schumann, L Behnke, C H Li and J Kirschner

O94003 Coherent excitations and electron-phonon coupling in Ba/EuFe₂As₂ compounds investigated by femtosecond time- and angle-resolved photoemission spectroscopy

I Avigo, R Cortés, L Rettig, S Thirupathaiah, H S Jeevan, P Gegenwart, T Wolf, M Ligges, M Wolf, J Fink and U Bovensiepen

Understanding the insulating nature of alkali-metal/Si(111):B interfaces
 Y Fagot-Revurat, C Tournier-Colletta, L Chaput, A Tejeda, L Cardenas, B Kierren, D Malterre, P Le Fèvre,
 F Bertran and A Taleb-Ibrahimi

What about *U* **on surfaces? Extended Hubbard models for adatom systems from first principles** Philipp Hansmann, Loïg Vaugier, Hong Jiang and Silke Biermann

094006 Influence of on-site Coulomb interaction U on properties of MnO(001)2 \times 1 and NiO(001)2 \times 1 surfaces A Schrön, M Granovskij and F Bechstedt

On the organic energy gap problemF Flores, E Abad, J I Martínez, B Pieczyrak and J Ortega

O94008 Easy-axis ferromagnetic chain on a metallic surface Alejandro M Lobos and Miguel A Cazalilla

SURFACE, INTERFACE AND ATOMIC-SCALE SCIENCE PAPERS

Structure and stability of He and He-vacancy clusters at a Σ5(310)/[001] grain boundary in bcc Fe from first-principles
 Lei Zhang, Ying Zhang and Guang-Hong Lu

Let Zhang, Ting Zhang and Guang-Hong Lu

095002 Large-scale uniform bilayer graphene prepared by vacuum graphitization of 6H-SiC(0001) substrates Qingyan Wang, Wenhao Zhang, Lili Wang, Ke He, Xucun Ma and Qikun Xue

1095003 Ion beam induced surface pattern formation and stable travelling wave solutions Satoshi Numazawa and Roger Smith

Depth profiling of ultra-thin alumina layers grown on Co(0001) S Nemšák, T Skála, M Yoshitake, K C Prince and V Matolín

095005 Chemical and topological short-range orders in the ternary Ni–Zr–Al metallic glasses studied by Monte Carlo simulations
S Z Zhao, J H Li and B X Liu

095006 A proposed voltage dependence of the ionic strength of a confined electrolyte based on a grand canonical ensemble model

Mark N Kobrak

(Continued on inside back cover)

(Continued from outside back cover)

| 095007 | Rubber friction for tire tread compound on road surfaces B Lorenz, B N J Persson, G Fortunato, M Giustiniano and F Baldoni |
|--------|--|
| 095008 | Theoretical studies of Li incorporation into Si(111) Payam Kaghazchi |
| 095009 | Interaction of copper with the rhenium(1010) surface Daniel Przyrembel Lyria Messahel and Klaus Christmann |