PHYSICAL REVIEW B THIRD SERIES, VOLUME 80, NUMBER 7 AUGUST 2009-15(I)

Bias-dependent scanning tunneling microscopy investigation of potassium adsorption on a Si(111)-7×7 surface *(4 pages)* 073304
Hao Zheng and Richard E. Palmer

Enhancing dopant solubility via epitaxial surfactant growth *(4 pages)* 073305
Lixin Zhang, Yanfa Yan, and Su-Huai Wei

Temperature dependence of Raman spectra for individual silicon nanowires *(4 pages)* 073306
Gregory S. Doerk, Carlo Carraro, and Roya Maboudian

Surface physics, nanoscale physics, low-dimensional systems

Evidence for graphene edges beyond zigzag and armchair *(3 pages)* 073401
Pekka Koskinen, Sami Malola, and Hannu Häkkinen

Transport properties of antidot superlattices of graphene nanoribbons *(4 pages)* 073402
L. Rosales, M. Pacheco, Z. Barticevic, A. León, A. Latgé, and P. A. Orellana

Phase of magneto-oscillations in graphite *(4 pages)* 073403
L. Smrčka and N. A. Goncharuk

Graphene Andreev billiards *(4 pages)* 073404
József Cserti, Imre Hagymási, and Andor Kormányos

Defect-mediated half-metal behavior in zigzag graphene nanoribbons *(4 pages)* 073405
R. Y. Oeiras, F. M. Araújo-Moreira, and E. Z. da Silva

Activated dissociation of O_2 on Pb(111) surfaces by Pb adatoms *(4 pages)* 073406
Yu Yang, Jia Li, Zhirong Liu, Gang Zhou, Jian Wu, Wenhui Duan, Peng Jiang, Jin-Feng Jia, Qi-Kun Xue, Bing-Lin Gu, and S. B. Zhang

Mechanism of vibrational excitation in inelastic photoemission from solid surfaces *(4 pages)* 073407
Ryuichi Arafune, Mayuko Q. Yamamoto, Noriaki Takagi, and Maki Kawai

High-pressure Raman spectroscopy of graphene *(4 pages)* 073408
John E. Proctor, Eugene Gregoryanz, Konstantin S. Novoselov, Mustafa Lotya, Jonathan N. Coleman, and Matthew P. Halsall

Electrostatic and dynamical effects of an aqueous solution on the zero-bias conductance of a single molecule: A first-principles study *(4 pages)* 073409
Arihiro Tawara, Tomofumi Tada, and Satoshi Watanabe

Phase separation and charge transfer in a K-doped C_{60} monolayer on Ag(001) *(4 pages)* 073410
M. Grobis, R. Yamachika, A. Wachowiak, Xinghua Lu, and M. F. Crommie

ARTICLES

Electronic structure: wide-band, narrow-band, and strongly correlated systems

Termination of typical wave-function multifractal spectra at the Anderson metal-insulator transition: Field theory description using the functional renormalization group *(21 pages)* 075101
Matthew S. Foster, Shinsei Ryu, and Andreas W. W. Ludwig

First-principles calculations of x-ray absorption in a scheme based on ultrasoft pseudopotentials: From α-quartz to high-T_c compounds *(8 pages)* 075102
Christos Gougoussis, Matteo Calandra, Ari P. Seitsonen, and Francesco Mauri

(Continued)

Selected for a Viewpoint in *Physics*. Please visit http://physics.aps.org/.

The editors and referees of PRB find these papers to be of particular interest, importance, or clarity. Please see our Announcement Phys. Rev. B 77, 130001 (2008).