

Marek Kolmer

Lista publikacji

z dnia 31 października 2015

Książki i monografie

1. Krok F., Saeed S.R., Kolmer M., Szymonski M., **Patterning of ionic insulator surfaces with low-energy ion beams**, [w:] **Nanofabrication by Ion-Beam Sputtering: Fundamentals and Applications**, Som T., Kanjilal D. Pan Stanford Publishing, Singapur 2012, 109-131
2. Wojtaszek M., Kolmer M., Godlewski S., Budzioch J., Such B., Krok F., Szymonski M., **Multi-probe characterization of 1D and 2D nanostructures assembled on Ge(001) surface by gold atom deposition and annealing**, [w:] **Springer series "Advances in Atom and Single Molecule Machines"**, vol.1, Joachim C., Springer-Verlag Berlin Heidelberg 2012, 141-152
3. Kolmer M., Godlewski S., Such B., De Mendoza P., De Leon C., Echavarren A.M., Kawai H., Saeys M., Joachim C., Szymonski M., **SPM imaging of trinaphthylene molecular states on a hydrogen passivated Ge(001) surface**, [w:] **Springer series "Advances in Atom and Single Molecule Machines"**, vol.3, Joachim C., Grill L., Springer-Verlag Berlin Heidelberg 2013, 105-114
4. Such B., Kolmer M., Godlewski S., Lis J., Budzioch J., Wojtaszek M., Szymonski M., **Imaging of Defects on Ge(001):H by Non-contact Atomic Force Microscopy**, [w:] **Springer series "Advances in Atom and Single Molecule Machines"**, vol.6, Moriarty P., Gauthier S., Springer-Verlag Berlin Heidelberg, 2015, 111-118

Publikacje w czasopiśmie

1. Goryl M., Budzioch J., Krok F., Wojtaszek M., Kolmer M., Walczak L., Konior J., Gnecco E., Szymonski M., 2012, **Probing atomic-scale friction on reconstructed surfaces of single-crystal semiconductors**, *Physical Review B*, 85, 085308
2. Kolmer M., Godlewski S., Kawai H., Such B., Krok F., Saeys M., Joachim C., Szymonski M., 2012, **Electronic properties of STM-constructed dangling-bond dimer lines on a Ge(001)-(2x1):H surface**, *Physical Review B*, 86, 125307
3. Kolmer M., Godlewski S., Lis J., Such B., Kantorovich L., Szymonski M., 2013, **Construction of atomic-scale logic gates on a surface of hydrogen passivated germanium**, *Microelectronic Engineering*, 109, 262–265
4. Kolmer M., Zebari A.A.A., Prauzner-Bechcicki J.S., Piskorz W., Zasada F., Godlewski S., Such B., Sojka Z., Szymonski M., 2013, **Polymerization of polyanthrylene on a titanium dioxide (011)-(2x1) surface**, *Angewandte Chemie - International Edition*, 52, 10300–10303
5. Godlewski S., Kolmer M., Kawai H., Such B., Zuzak R., Saeys M., De Mendoza P., Echavarren A.M., Joachim C., Szymonski M., 2013, **Contacting a conjugated molecule with a surface dangling bond dimer on a Ge(001):H surface allows imaging of the hidden ground electronic state**, *ACS Nano*, 7 (11), 10105-10111
6. Zebari A.A.A., Kolmer M., Prauzner-Bechcicki J.S., 2013, **STM tip-assisted engineering of molecular nanostructures: PTCDA islands on Ge(001):H surfaces**, *Beilstein Journal of Nanotechnology*, 4, 927–932
7. Kolmer M., Zebari A.A.A., Goryl M., Buatier de Mongeot F., Zasada F., Piskorz W., Pietrzyk P., Sojka Z., Krok F., Szymonski M., 2013, **Temperature-dependent orientation of self-organized nanopatterns on ion-irradiated TiO₂(110)**, *Physical Review B*, 88, 195427

8. Kolmer M., Godlewski S., Zuzak R., Wojtaszek M., Rauer C., Thuairé A., Hartmann J.M., Moriceau H., Joachim C., Szymonski M., 2014, **Atomic scale fabrication of dangling bond structures on hydrogen passivated Si(001) wafers processed and nanopackaged in a clean room environment**, *Applied Surface Science*, 288, 83– 89
9. Zebari A.A.A., Kolmer M., Prauzner-Bechcicki J.S., 2015, **Characterization of PTCDa nanocrystals on Ge(001):H-(2×1) surfaces**, *Applied Surface Science*, 332, 403–408
10. Kolmer M., Zuzak R., Zebari A.A.A., Godlewski S., Jakub S. Prauzner-Bechcicki J.S., Piskorz W., Zasada F., Sojka Z., Blegier D., Hecht S., Szymonski M., 2015, **On-surface polymerization on a semiconducting oxide: aryl halide coupling controlled by surface hydroxyl groups on rutile TiO₂(011)**, *Chemical Communications*, 51, 11276-11279
11. Kolmer M., Zuzak R., Dridi G., Godlewski S., Joachim C., Szymonski M., 2015, **Realization of a Quantum Hamiltonian Boolean logic gate on the Si(001):H surface**, *Nanoscale*, 7, 12325–12330
12. Godlewski S., Kolmer M., Lis J., Zuzak R., Such B., Gren W., Szymonski M., Kantorovich L., 2015, **Dynamical behavior of a dangling bond dimer on a hydrogenated semiconductor: Ge(001):H**, *Physical Review B*, 92, 115403
13. Englund M., Zuzak R., Godlewski S., Kolmer M., Frederiksen T., García-Lekue A., Sánchez-Portal D., Szymonski M., 2015, **Tunneling spectroscopy of close-spaced dangling-bond pairs in Si(001):H**, *Scientific Reports*, 5, 14496

Publikacje w czasopismach popularno-naukowych

1. Kolmer M., Godlewski S., Kawai H., Such B., Krok F., Saeyns M., Joachim C., Szymonski M., 2012, **Towards atomic-scale logic gates construction on a Ge(001)-(2×1):H surface**, *E-nanonewsletter*, 25, www.phantomsnet.net, 5-11
2. Kolmer M., Zuzak R., Zebari A.A.A., Godlewski S., Jakub S. Prauzner-Bechcicki J.S., Szymonski M., Piskorz W., Zasada F., Sojka Z., Blegier D., Hecht S., 2014, **On-surface polymerization as a facile method for bottom-up nanoconstruction on inorganic semiconductor substrates**, *E-nanonewsletter*, 31, www.phantomsnet.net, 9-12
3. Kolmer M., Zuzak R., Dridi G., Godlewski S., Joachim C., Szymonski M., 2014, **Construction and characterization of atomic scale Quantum Hamiltonian Boolean logic gates on hydrogen passivated Si(100)**, *E-nanonewsletter*, 31, www.phantomsnet.net, 5-8