

Publication List

Experimental Evidence for Epitaxial Silicene on Diboride Thin Films

A. Fleurence, R. Friedlein, T. Ozaki, H. Kawai, Y. Wang, and Y. Y.-Takamura
Phys. Rev. Lett. **108**, 245501 (2012)

Structural and electronic properties of the Pb/Ge(111)- β ($\sqrt{3}\times\sqrt{3}$) $R30^\circ$ surface studied by photoelectron spectroscopy and first-principles calculations

K. Yaji, S. Hatta, T. Aruga and H. Okuyama
Phys. Rev. B **86**, 235317(2012)

Spin-polarized surface states on Br/Ge(111)-(1 $\times$ 1): Surface spin polarization without heavy elements

Y. Ohtsubo, S. Hatta, N. Kawai, A. Mori, Y. Takeichi, K. Yaji, H. Okuyama, and T. Aruga
Phys. Rev. B **86**, 165325(2012)

Controlling the topology of Fermi surfaces in metal nanofilms,

M. Ogawa, A. Gray, P. M. Sheverdyaeva, P. Moras, H. Hong, L.-C. Huang, S.-J. Tang, K. Kobayashi, C. Carbone, T.-C. Chiang, and I. Matsuda,
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Atomic and electronic structures of Si(111)- $\sqrt{21}\times\sqrt{21}$ superstructure.

Y. Fukaya, K. Kubo, T. Hirahara, S. Yamazaki, W. H. Choi, H. W. Yeom, S. Hasegawa, A. Kawasuso, and I. Matsuda
e-J. Surf. Sci. Nanotechnology **10**, 310-314 (2012).

Hydrogen-induced surface metallization of SrTiO₃(001)

M. D'Angelo, R. Yukawa, K. Ozawa, S. Yamamoto, T. Hirahara, S. Hasegawa, M.G. Silly, F. Sirotti, and I. Matsuda
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Electronic structure study of ultra thin Ag(111) films modified by Si(111) substrate and by the $\sqrt{3}\times\sqrt{3}$ -Ag₂Bi surface

M. Ogawa, P. M. Sheverdyayeva, P. Moras, D. Topwal, A. Harasawa, K. Kobayashi, C. Carbone, and I. Matsuda

J. Phys.: Condens. Matter **24**, 115501 (2012).

Elucidation of Rh-induced in-gap states of Rh:SrTiO₃ visible-light-driven photocatalyst by soft x-ray spectroscopy and first-principles calculations

S. Kawasaki, K. Akagi, K. Nakatsuji, S. Yamamoto, I. Matsuda, Y. Harada, J. Yoshinobu, F. Komori, R. Takahashi, M. Lippmaa, C. Sakai, H. Niwa, M. Oshima, K. Iwashina, and A. Kudo

J. Phys. Chem. C, **116**, 24445-24448 (2012).

Atomic configuration and phase transition of Pt-induced nanowire on Ge(001) surface studied by scanning tunneling microscopy, reflection high-energy positron diffraction and angle resolved photo-emission spectroscopy

I. Mochizuki, Y. Fukaya, A. Kawasuso, K. Wada, T. Hyodo, K. Yaji, A. Harasawa, and I. Matsuda

Phys. Rev. B **85**, 245438 (2012).

Structural analysis of Si(111)- $\sqrt{21}\times\sqrt{21}$ -(Ag, Cs) surface by reflection high-energy positron diffraction

Y. Fukaya, I. Matsuda, R. Yukawa, and A. Kawasuso

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Elucidation of Rh-induced in-gap states of Rh:SrTiO₃ visible-light-driven photocatalyst by soft x-ray spectroscopy and first-principles calculations

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Probing carbon edge exposure of iron phthalocyanine-based oxygen reduction catalysts by soft X-ray absorption spectroscopy

H. Niwa, M. Saito, M. Kobayashi, Y. Harada, M. Oshima, S. Moriya, K. Matsubayashi, Y. Nabae, S. Kuroki, T. Ikeda, K. Terakura, J. Ozaki, and S. Miyata
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Study on the oxygen adsorption property of nitrogen-containing metal-free carbon-based cathode catalysts for oxygen reduction reaction

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Platinum Oxidation Responsible for Degradation of Platinum-Cobalt Alloy Cathode Catalysts for Polymer Electrolyte Fuel Cells

S. Hidai, M. Kobayashi, H. Niwa Y. Harada, M. Oshima, Y. Nakamori, and T. Aoki
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Indirect contribution of transition metal towards oxygen reduction reaction activity in iron phthalocyanine-based carbon catalysts for polymer electrolyte fuel cells

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