

Publication List

Observation of a giant Kerr rotation in a ferromagnetic transition metal by M-edge resonant magneto-optic Kerr effect

Sh. Yamamoto, M. Taguchi, M. Fujisawa, R. Hobara, S. Yamamoto, K. Yaji, T. Nakamura, K. Fujikawa, R. Yukawa, T. Togashi, M. Yabashi, M. Tsunoda, S. Shin, and I. Matsuda
Phys. Rev. B **89**, 064423 (2014).

Titanium-induced charge of Si(001) surface dependent on local configuration

K. Shudo, T. Aoki, S. Ohno, K. Yamazaki, F. Nakayama, M. Tanaka, T. Okuda, A. Harasawa, I. Matsuda, T. Kakizaki, M. Uchiyama
J. Elec. Spec. Relat. Phenom. **192**,35 (2014).

Tuning of silicene-substrate interactions with potassium adsorption

R. Friedlein, A. Fleurence, J. T. Sadowski, Y. Yamada-Takamura
Appl. Phys. Lett. **102**, 221603 (2013).

Strain Induced Intermixing of Ge Atoms in Si Epitaxial layer on Ge(111)

A.Tosaka, I.Mochizuki, R.Negishi and Y.Shigeta
J. Appl. Phys. **113**, 073511 (2013)

Fermi gas behavior of a one-dimensional metallic band of Pt-induced nanowires on Ge(001)

K. Yaji, I. Mochizuki, S. Kim, Y. Takeichi, A. Harasawa, Y. Ohtsubo, P. Le Fèvre, F. Bertran, A. Taleb-Ibrahimi, A. Kakizaki, and F. Komori
Phys. Rev. B **87**, 241413(R) (2013).

Valley spin polarization by using the extraordinary Rashba effect on silicon

Kazuyuki Sakamoto, Tae-Hwan Kim, Takuya Kuzumaki, Beate Müller, Yuta Yamamoto, Minoru Ohtaka, Jacek R. Osiecki, Koji Miyamoto, Yasuo Takeichi, Ayumi Harasawa, Sebastian D. Stolwijk, Anke B. Schmidt, Jun Fujii, R. I. G. Uhrberg, Markus Donath, Han Woong Yeom and Tatsuki Oda
Nature Communications **4**, 2073 (2013).

Observation of Micro-Magnetic Structures by Synchrotron Radiation Photoelectron Emission Microscopy

T.Kinoshita, K.Arai, K.Fukumoto, T.Ohkoch, M.Kotsugi, F.Guo, T.Muro, T.Nakamura, H.Osawa, T.Matsushita and T.Okuda
J. Phys. Soc. Jpn. **82**, 021005 (2013).

Electronic defects formation in Fe-doped BaZrO₃ studied by X-ray Absorption Spectroscopy

D.Y.Kim, S.Miyoshi, T.Tsuchiya and S.Yamaguchi
Chemistry of Materials **26**, 927(2013).

Room Temperature Redox Reaction by Oxide Ion Migration at Carbon/Gd-Doped CeO₂ Heterointerface Probed by an *in situ* Hard X-Ray Photoemission and Soft X-Ray Absorption Spectroscopies

T.Tsuchiya, S.Miyoshi, Y.Yamashita, H.Yoshikawa, K.Terabe, K.Kobayashi and S.Yamaguchi
Sci. Technol. Adv. Mater. **14**, 045001 (2013).

Anisotropic Thermally-Accessible Lattice Distortion of a Cu(II)-Cr(VI) Complex Bimetallic Oxide by Adsorbing a Chiral One-Dimensional Cu(II)-Cr(VI) Coordination Polymer

N. Hayashi and T. Akitsu

J. Chem. Chem. Eng. **7**, 306 (2013).

Variety of Structures of Binuclear Chiral Schiff Base Ce(III)/Pr(III)/Lu(III)-Ni(II)/Cu(II)/Zn(II) Complexes

T. Hayashi, H. Shibata, S. Orita and T. Akitsu

Eur. Chem. Bull. **2**, 49 (2013).

Time-resolved photoelectron spectroscopies using synchrotron radiation: Past, present, and future
S. Yamamoto, I. Matsuda, *J. Phys. Soc. Jpn.*, **82**, 021003 (2013).

Invited review paper in the special volume "Frontier of Condensed Matter Physics using Synchrotron Radiation"

Electronic structure of the hydrogen-adsorbed SrTiO₃(001) surface studied by polarization-dependent photoemission spectroscopy

R. Yukawa, S. Yamamoto, K. Ozawa, M. D'Angelo, M. Ogawa, M. G. Silly, F. Sirotti, and I. Matsuda

Phys. Rev. B **87**, 115314 (2013).

金属超薄膜内に閉じ込められた電子系のフェルミ面トポロジー制御-量子効果で銀細工
永村直佳、小河愛実、松田巖

固体物理 **48**(3), 13-19 (2013).

表面科学会教科書シリーズ 第6巻 演習書「2.24 量子井戸」

松田巖

Oscillatory relaxation of surface photovoltage on a semiconductor surface

M. Ogawa, S. Yamamoto, R. Yukawa, R. Hobara, L.-C. Huang, R.-Y. Liu, S.-J. Tang, and I. Matsuda

Phys. Rev. B **87**, 235308-1, 235308-4 (2013).

Relaxations of the surface photovoltage effect on the atomically controlled semiconductor surfaces studied by time-resolved photoemission spectroscopy

M. Ogawa, S. Yamamoto, K. Fujikawa, R. Hobara, R. Yukawa, Sh. Yamamoto, S.

Kitagawa, D. Pierucci, M.G. Silly, C.-H. Lin, R.-Y. Liu, H. Daimon, F. Sirotti, S.-J. Tang, and I. Matsuda

Phys. Rev. B **88**, 165313 (2013).

Structure of silicene on a Ag(111) surface studied by reflection high-energy positron diffraction

Y. Fukaya, I. Mochizuki, M. Maekawa, K. Wada, T. Hyodo, I. Matsuda, and A. Kawasuso

Phys. Rev. B **88**, 205413 (2013).

Solvation dependence of valence electronic states of water diluted in organic solvents probed by soft X-ray spectroscopy

Takashi Tokushima, Yuka Horikawa, Osamu Takahashi, Hidemi Arai, Koichiro Sadakane, Yoshihisa Harada, Yasutaka Takata and Shik Shin

Phys. Chem. Chem. Phys., (2014), DOI: [10.1039/c4cp00762j](https://doi.org/10.1039/c4cp00762j).

Electronic Excitations of Magnetic Impurity State in Diluted Magnetic Semiconductor (Ga,Mn)As
M. Kobayashi, H. Niwa, Y. Takeda, A. Fujimori, Y. Senba, H. Ohashi, A. Tanaka, S. Ohya,
P. N. Hai, M. Tanaka, Y. Harada, M. Oshima
Phys. Rev. Lett. **112**,107203 (2014).

Iron–Nitrogen Coordination in Modified Graphene Catalyzes a Four-Electron-Transfer Oxygen
Reduction Reaction
K. Kamiya, H. Koshikawa, H. Kiuchi, Y. Harada, M. Oshima, K. Hashimoto, S.
Nakanishi
ChemElectroChem, DOI: 10.1002/celec.201300181.

Operando Soft X-ray Emission Spectroscopy of Iron Phthalocyanine-based Catalysts for Oxygen
Reduction Reaction
H. Niwa, H. Kiuchi, J. Miyawaki, Y. Harada, M. Oshima, Y. Nabaie and T. Aoki,
Electrochemistry communications **35**, 57 (2013).

Selective Probing of the OH or OD Stretch Vibration in Liquid Water Using Resonant Inelastic
Soft-X-Ray Scattering
Y. Harada, T. Tokushima, Y. Horikawa, O. Takahashi, H. Niwa, M. Kobayashi, M.
Oshima, Y. Senba, H. Ohashi, K. T. Wikfeldt, A. Nilsson, L. G. M. Pettersson, S. Shin,
Phys. Rev. Lett. **111**, 193001 (2013).

Multiple helimagnetic phases and topological Hall effect in epitaxial thin films of pristine and
Co-doped SrFeO₃
S. Chakraverty, T. Matsuda, H. Wadati, J. Okamoto, Y. Yamasaki, H. Nakao, Y. Murakami,
S. Ishiwata, M. Kawasaki, Y. Taguchi, Y. Tokura, and H. Y. Hwang:
Phys. Rev. B **88**, 220405(R)-1-5 (2013).

Spectroscopic studies on the electronic and magnetic states of Co-doped perovskite manganite
Pr_{0.8}Ca_{0.2}Mn_{1-y}Co_yO₃ thin films
K. Yoshimatsu, H. Wadati, E. Sakai, T. Harada, Y. Takahashi, T. Harano, G. Shibata, K.
Ishigami, T. Kadono, T. Koide, T. Sugiyama, E. Ikenaga, H. Kumigashira, M. Lippmaa,
M. Oshima, and A. Fujimori:
Phys. Rev. B **88**, 174423-1-6 (2013).

BaFeO₃ cubic single crystalline thin film: A ferromagnetic insulator
S. Chakraverty, T. Matsuda, N. Ogawa, H. Wadati, E. Ikenaga, M. Kawasaki, Y. Tokura,
and H. Y. Hwang:
Appl. Phys. Lett. **103**, 142416-1-4 (2013).

Role of Oxygen Holes in Li_xCoO₂ Revealed by Soft X-ray Spectroscopy
T. Mizokawa, Y. Wakisaka, T. Sudayama, C. Iwai, K. Miyoshi, J. Takeuchi, H. Wadati, D.
G. Hawthorn, T. Z. Regier, and G. A. Sawatzky:
Phys. Rev. Lett. **111**, 056404-1-5 (2013).

Study of local disorder in LiMn(Cr,Ni)O₂ compounds by extended x-ray absorption fine structure
measurements
L. Maugeri, A. Iadecola, L. Simonelli, G. Chen, H. Wadati, T. Mizokawa, and N. L. Saini:
J. Power Sources **242**, 202-207 (2013).

Electronic structure of hole-doped delafossite oxides $\text{CuCr}_{1-x}\text{Mg}_x\text{O}_2$ "

T. Yokobori, M. Okawa, K. Konishi, R. Takei, K. Katayama, S. Oozono, T. Shinmura, T. Okuda, H. Wadati, E. Sakai, K. Ono, H. Kumigashira, M. Oshima, T. Sugiyama, E. Ikenaga, N. Hamada, and T. Saitoh
Phys. Rev. B **87**, 195124-1-8 (2013); *arXiv:1211.1829v1*.

Magnetic Frustration in a Mn Honeycomb Lattice Induced by Mn-O-O-Mn Pathways

H. Wadati, K. Kato, Y. Wakisaka, T. Sudayama, D. G. Hawthorn, T. Z. Regier, N. Onishi, M. Azuma, Y. Shimakawa, T. Mizokawa, A. Tanaka, and G. A. Sawatzky
Solid State Commun. **162**, 18-22 (2013); *arXiv:1101.2847v1*.

Temperature dependent local structure of LiCoO_2 nanoparticles determined by Co K-edge X-ray absorption fine structure

L. Maugeri, L. Simonelli, A. Iadecola, B. Joseph, M. Okubo, I. Honma, H. Wadati, T. Mizokawa, and N. L. Saini
J. Power Sources **229**, 272-276 (2013).