# Publications

<Paper>

1. "Soft x-ray photoemission study of new $BiS_2$-layered superconductor $LaO_{1-x}FxBiS_2$",
S. Nagira, J. Sonoyama, T. Wakita, M. Sunagawa, Y. Izumi, T. Muro, H. Kumigashira, M. Oshima, K. Deguchi, H. Okazaki, Y. Takano, O. Miura, Y. Mizuguchi, K. Suzuki, H. Usui, K. Kuroki, K. Okada, Y. Muraoka, and Takayoshi Yokoya,
J. Phys. Soc. Jpn. **83**, 033703:1-5 (2014).

2. "Te 5***p*** orbitals bring three-dimensional electronic structure to two-dimensional $Ir_{0.95}Pt_{0.05}Te_2$",
D. Ootsuki, S. Pyon, T. Toriyama, K. Kudo, M. Nohara, K. Horiba, M. Kobayashi, K. Ono, H. Kumigashira, T. Noda, T. Sugimoto, A. Fujimori, N. L. Saini, T. Konishi, Y. Ohta, and T. Mizokawa,
Phys. Rev. B **89**, 104506:1-4 (2014).

3. "Characteristic two dimensional Fermi surface topology of high-$T_c$ iron-based superconductors",
Masanori Sunagawa, Toshihiko Ishiga, Koji Tsubota, Taihei Jabuchi, Junki Sonoyama, Keita Iba, Kazutaka Kudo, Minoru Nohara, Kanta Ono, Hiroshi Kumigashira, Tomohiro Matsushita, Masashi Arita, Kenya Shimada, Hirofumi Namatame, Masaki Taniguchi, Takanori Wakita, Yuji Muraoka, and Takayoshi Yokoya,
Scientific Report **4**, 4381:1-6 (2014).

4. "Metallic conductivity in infinite-layer strontium iron oxide thin films reduced by calcium hydride",
T. Katayama, A. Chikamatsu, Y. Hirose, H. Kumigashira, T. Fukumura, and T. Hasegawa,
J. Phys. D: Appl. Phys. **47**, 135304:1-6 (2014).

5. "Persistent insulator to metal transition of a $VO_2$ thin film by soft x-ray irradiation",
Yuji Muraoka, Hiroki Nagao, Shinsuke Katayama, Takanori Wakita, Masaaki Hirai, Takayoshi Yokoya, Hiroshi Kumigashira, Masaharu Oshima,
Jpn. J. Appl. Phys. **53**, 05FB09:1-4 (2014).

6. "Structural and transport properties of $Ti_{1-x}Fe_xO_{2-\delta}$ thin film prepared by RF magnetron sputtering",
K. Usui, T. Okumura, E. Sakai, H. Kumigashira, and T. Higuchi,
J. Phys.: Conf. Ser. **502**, 012001:1-4 (2014).

7. "Electronic structure of $Li_2Fe_{1-x}Mn_xP_2O_7$ for lithium-ion battery studied by resonant photoemission spectroscopy",
Koji Horiba, Shota Ito, Shodai Kurosumi, Naoka Nagamura, Satoshi Toyoda, Hiroshi Kumigashira, Masaharu Oshima, Naoya Furuta, Shin-ichi Nishimura, Atsuo Yamada and Noritaka Mizuno,
J. Phys.: Conf. Ser. **502**, 012004:1-4 (2014).

8. "Bandwidth-controlled metal-insulator transition in epitaxial $PrNiO_3$ ultrathin films induced by dimensional crossover",
Enju Sakai, Kohei Yoshimatsu, Masatomo Tamamitsu, Koji Horiba, Atsushi Fujimori, Masaharu Oshima, and Hiroshi Kumigashira,
Appl. Phys. Lett. **104**, 171609:1-4 (2014).

9. "Growth of $TiO_{2-\delta}$ thin film by RF magnetron sputtering using oxygen radical and Ti-metal",
Y. Shimazu, T. Okumura, E. Sakai, H. Kumigashira, M. Okawa, T. Saitoh, and T. Higuchi,
Jpn. J. Appl. Phys. **53**, 06JG01:1-4 (2014).

10. "Layered Compounds $BaM_2Ge_4Ch_6$ (M = Rh, Ir and Ch = S, Se) with Pyrite-Type Building Blocks and Ge–Ch Heteromolecule-Like Anions",
Hechang Lei, Jun-ichi Yamaura, Jiangang Guo, Yanpeng Qi, Yoshitake Toda, and Hideo Hosono,
Inorg. Chem., **53** (11), 5684–5691 (2014).

11. "Electrical conductivity of Sc-doped $TiO_2$ thin film prepared by RF magnetron sputtering",
T. Inoue, T. Okumura, Y. Shimazu, E. Sakai, H. Kumigashira and T. Higuchi,
Jpn. J. Appl. Phys. **53**, 06JG03:1-4 (2014).

12. "Programmable spin-state switching in a mixed-valence spin-crossover iron grid",
Takuto Matsumoto, Graham N. Newton, Takuya Shiga, Shinya Hayami, Yuta Matsui, Hiroshi Okamoto, Reiji Kumai, Youichi Murakami & Hiroki Oshio,
Nature Communications **5**, 3865:1-8 (2014).

13. "Electronic structure of $V_2O_3$ thin film prepared by RF magnetron sputtering using oxygen radical and V-metal",
Y. Shimazu, T. Okumura, A. Shimada, K. Tanabe, K. Tokiwa, E. Sakai, H. Kumigashira and T. Higuchi,
Jpn. J. Appl. Phys. **53**, 06JG05:1-4 (2014).

14. "Possible Existence of Two Charge-Ordered Phases in $Pr_{1-x}Ca_xMnO_3$ for $0.4 \leq x \leq 0.50$",
P.S.Mondal, S.Asai, T.Igarashi, T.Suzuki, R.Okazaki, I.Terasaki, Y.Yasui, K.Kobayashi, R.Kumai, H.Nakao and Y.Murakami ,
J. Phys. Soc. Jpn. **83**, 064709:1-6 (2014).

15. "Synergistic adsorption of MIBC/CTAB mixture at the air/water interface and applicability of gibbs adsorption equation",
C. M. Phan, C. V. Nguyen, S. Yusa, and N. L. Yamada,
Langmuir, **30** (20), 5790–5796 (2014).

16. "Strongly three-dimensional electronic structure and Fermi surfaces of $SrFe_2(As_{0.65}P_{0.35})_2$: Comparison with $BaFe_2(As_{1-x}P_x)_2$",
H. Suzuki, T. Kobayashi, S. Miyasaka, T. Yoshida, K. Okazaki, L. C. C. Ambolode, II, S. Ideta, M. Yi, M. Hashimoto, D. H. Lu, Z.-X. Shen, K. Ono, H. Kumigashira, S. Tajima, and A. Fujimori,
Phys. Rev. B **89**, 184513:1-6 (2014).

17. "Structural Modulation of the Cage Lattice System $DyB_6$",
Kazuaki IWASA, Mitsuhide AMANO, Hironori NAKAO, Youichi MURAKAMI,
JPS Conf. Proc. **3**, 016026:1-6 (2014).

18. "Thickness-dependent ferromagnetic metal-to-paramagnetic insulator transition in $La_{0.6}Sr_{0.4}MnO_3$ thin films studied by x-ray magnetic circular dichroism",
G. Shibata, K. Yoshimatsu, E. Sakai, V. R. Singh, V. K. Verma, K. Ishigami, T. Harano, T. Kadono, Y. Takeda, T. Okane, Y. Saitoh, H. Yamagami, A. Sawa, H. Kumigashira, M. Oshima, T. Koide, and A. Fujimori,
Phys. Rev. B **89**, 235123:1-5 (2014).

19. "Coexistence of Bloch electrons and glassy electrons in $Ca_{10}(Ir_4As_8)$ $(Fe_{2-x}Ir_xAs_2)_5$ revealed by angle-resolved photoemission spectroscopy",
K. Sawada, D. Ootsuki, K. Kudo, D. Mitsuoka, M. Nohara, T. Noda, K. Horiba, M. Kobayashi, K. Ono, H. Kumigashira, N. L. Saini, and T. Mizokawa,
Phys. Rev. B **89**, 220508R:1-4 (2014).

20. "Brightness enhancement of a linac-based intense positron beam for total-reflection high-energy positron diffraction (TRHEPD)",
M. Maekawa, K. Wada, Y. Fukaya, A. Kawasuso, I. Mochizuki, T. Shidara, and T. Hyodo,
Eur. Phys. J. D **68**, 165:1-6 (2014).

21. "Novel rattling of K atoms in aluminium-doped defect pyrochlore tungstate",
Elvis Shoko, Gordon J Kearley, Vanessa K Peterson, Hannu Mutka, Michael M Koza, Jun-ichi Yamaura, Zenji Hiroi and Gordon J Thorogood,
J. Phys.: Condens. Matter **26**, 305401:1-9 (2014).

22. "Systematic Variations in the Charge-Glass-Forming Ability of Geometrically Frustrated θ-(BEDT-TTF)$_2X$ Organic Conductors",
Takuro Sato, Fumitaka Kagawa, Kensuke Kobayashi, Akira Ueda, Hatsumi Mori, Kazuya Miyagawa, Kazushi Kanoda, Reiji Kumai, Youichi Murakami, and Yoshinori Tokura,
J. Phys. Soc. Jpn. **83**, 083602:1-4 (2014).

23. "Orbital correlations and dimensional crossover in epitaxial $Pr_{0.5}Ca_{0.5}MnO_3/La_{0.5}Sr_{0.5}MnO_3$ superlattices",
H Wadati, J Okamoto, M Garganourakis, V Scagnoli, U Staub, E Sakai, H Kumigashira, T Sugiyama, E Ikenaga, M Nakamura, M Kawasaki and Y Tokura,
New J. Phys. **16**, 073044:1-10 (2014).

24. "A time-dependent order parameter for ultrafast photoinduced phase transitions",
P. Beaud, A. Caviezel, S. O. Mariager, L. Rettig, G. Ingold, C. Dornes, S-W. Huang, J. A. Johnson, M. Radovic, T. Huber, T. Kubacka, A. Ferrer, H. T. Lemke, M. Chollet, D. Zhu, J. M. Glownia, M. Sikorski, A. Robert, H.Wadati, M. Nakamura, M. Kawasaki, Y. Tokura, S. L. Johnson and U. Staub,
Nature Materials **13**, 923–927 (2014).

25. "Bond order and the role of ligand states in stripe-modulated $IrTe_2$",
K. Takubo, R. Comin, D. Ootsuki, T. Mizokawa, H. Wadati, Y. Takahashi, G. Shibata, A. Fujimori, R. Sutarto, F. He, S. Pyon, K. Kudo, M. Nohara, G. Levy, I. S. Elfimov, G. A. Sawatzky, and A. Damascelli,
Phys. Rev. B **90**, 081104(R):1-5 （2014）.

26. "Electronic Structure and Photoelectrochemical Properties of an Ir-doped $SrTiO_3$ Photocatalyst",
Seiji Kawasaki, Ryota Takahashi, Kazuto Akagi, Jun Yoshinobu, Fumio Komori, Koji Horiba, Hiroshi Kumigashira, Katsuya Iwashina, Akihiko Kudo, Mikk Lippmaa,
J. Phys. Chem. C **118**, 20222 – 20228 (2014).

27. "Electronic Structure of $CeM_2Al_{10}$ ($M$ = Fe, Ru, and Os) Studied by Soft X-ray Resonant and High-Resolution Photoemission Spectroscopy",
T. Ishiga, T. Wakita, R. Yoshida, H. Okazaki, K. Tsubota, M. Sunagawa, K. Uenaka, K. Okada, H. Kumigashira, M. Oshima, K. Yutani, Y. Muro, T. Takabatake, Y. Muraoka, and T. Yokoya,
J. Phys. Soc. Jpn. **83**, 094717:1-6 (2014).

28. "Hydrogen-Bond-Dynamics-Based Switching of Conductivity and Magnetism: A Phase Transition Caused by Deuterium and Electron Transfer in a Hydrogen-Bonded Purely Organic Conductor Crystal",
Akira Ueda, Shota Yamada, Takayuki Isono, Hiromichi Kamo, Akiko Nakao, Reiji Kumai, Hironori Nakao, Youichi Murakami, Kaoru Yamamoto, Yutaka Nishio, and Hatsumi Mori,
J. Am. Chem. Soc., **136** (34), 12184–12192 (2014).

29. "Cooperative Order in the Weakly Magnetic Domain of $LaFeAsO_{1-x}F_x$ near the Doping Phase Boundary",
M. Hiraishi, R. Kadono, M. Miyazaki, I. Yamauchi, A. Koda, K. M.. Kojima, M. Ishikado, S. Wakimoto, and S. Shamoto,
J. Phys. Soc. Jpn. **83**, 103707:1-5 (2014).

30. "Lifting of *xz*/*yz* orbital degeneracy atthe structural transition in detwinned FeSe",
T. Shimojima, Y. Suzuki, T. Sonobe, A. Nakamura, M.

Sakano, J. Omachi, K. Yoshioka, M. Kuwata-Gonokami, K. Ono, H. Kumigashira, A. E. Böhmer, F. Hardy, T. Wolf, C. Meingast, H. v. Löhneysen, H. Ikeda, and K. Ishizaka,
Phys. Rev. B **90**, 121111R:1-5 (2014).

31. "Unconventional magnetism in the layered oxide **$LaSrRhO_4$**",
N. Furuta, S. Asai, T. Igarashi, R. Okazaki, Y. Yasui, I. Terasaki, M. Ikeda, T. Fujita, M. Hagiwara, K. Kobayashi, R. Kumai, H. Nakao, Y. Murakami,,
Phys. Rev. B **90**, 144402 (2014).

32. "Structure–Property Relationship of Supramolecular Ferroelectric [H-66dmbp][Hca] Accompanied by High Polarization, Competing Structural Phases, and Polymorphs",
Kensuke Kobayashi, Sachio Horiuchi, Shoji Ishibashi, Fumitaka Kagawa, Youichi Murakami, and Reiji Kumai,
Chem. Eur. J **20**, 17515-17522 (2014).

33. "Polarized-neutron-diffraction study of the microscopic magnetic structure in α"-$Fe_{16}N_2$ nanoparticles",
H. Hiraka, K. Ohoyama, Y. Ogata, T. Ogawa, R. Gallage, N. Kobayashi, M. Takahashi, B. Gillon, A. Gukasov, and K. Yamada,
Phys. Rev. B **90**, 134427 1-5 (2014).

34. "An Anti $CuO_2$-type Metal Hydride Square Net Structure in $Ln_2M_2As_2H_x$ (Ln = La or Sm, M = Ti, V, Cr, or Mn)",
H. Mizoguchi, S.-W. Park, H. Hiraka, K. Ikeda, T. Otomo, and H. Hosono,
Angew. Chem. Int. Ed. **53**, 1-5 (2014).

35. "Photoemission and DMFT study of electronic correlations in **$SrMoO_3$**: Effects of Hund's rule coupling and possible plasmonic sideband",
H. Wadati, J. Mravlje, K. Yoshimatsu, H. Kumigashira, M. Oshima, T. Sugiyama, E. Ikenaga, A. Fujimori, A. Georges, A. Radetinac, K. S. Takahashi, M. Kawasaki, and Y. Tokura,
Phys. Rev. B **90**, 205131:1-8 (2014).

36. "Anisotropy of the superconducting gap in the iron-based superconductor $BaFe_2(As_{1-x}P_x)_2$",
T. Yoshida, S. Ideta, T. Shimojima, W. Malaeb, K. Shinada, H. Suzuki, I. Nishi, A. Fujimori, K. Ishizaka, S. Shin, Y. Nakashima, H. Anzai, M. Arita, A. Ino, H. Namatame, M. Taniguchi, H. Kumigashira, K. Ono, S. Kasahara, T. Shibauchi, T. Terashima, Y. Matsuda, M. Nakajima, S. Uchida, Y. Tomioka, T. Ito, K. Kihou, C. H. Lee, A. Iyo, H. Eisaki, H. Ikeda, R. Arita, T. Saito, S. Onari, and H. Kontani,
Scientific Reports **4**, 7292:1-6 (2014).

37. "Solid-solid phase interconversion in an organic conductor crystal: hydrogen-bond-mediated dynamic changes in p-stacked molecular arrangement and physical properties",
Junya Yoshida, Akira Ueda, Akiko Nakao, Reiji Kumai, Hironori Nakao, Youichi Murakami and Hatsumi Mori,
Chem. Commun. **50**(98), 15557-15560 (2014).

38. "Proximity to Fermi-surface topological change in superconductor $LaO_{0.54}F_{0.46}BiS_2$",
K. Terashima, J. Sonoyama, T. Wakita, M. Sunagawa, K. Ono, H. Kumigashira, T. Muro, M. Nagao, S. Watauchi, I. Tanaka, H. Okazaki, Y. Takano, O. Miura, Y. Mizuguchi, H. Usui, K. Suzuki, K. Kuroki, Y. Muraoka, and T. Yokoya,
Phys. Rev. B **90**, 220512R:1-5 (2014).

39. "X-ray study of the origins of W-doping- and photoirradiation-induced metal-insulator transitions in electron-doped VO2 films",
D. Okuyama, K. Shibuya, R. Kumai, Y. Kitagawa, T. Suzuki, Y. Yamasaki, H. Nakao, Y. Murakami, M. Kawasaki, Y. Taguchi, T. Arima, and Y. Tokura, ,
Phys. Rev. B **91**, 064101:1-8 (2015).

40. "Enhanced Electrical Transparency by Ultra-Thin $LaAlO_3$ Insertion at Oxide Metal/Semiconductor Heterointerfaces",
Takeaki Yajima, Makoto Minohara, Christopher Bell, Hiroshi Kumigashira, Masaharu Oshima, Harold Y. Hwang, and Yasuyuki Hikita,
Nano Lett. **15**, 1622-1626 (2015).

41. "Determination of band diagram for a p-n junction between Mott insulator $LaMnO_3$ and band insulator Nb:$SrTiO_3$",
M. Kitamura, M. Kobayashi, E. Sakai, R. Takahashi, M. Lippmaa, K. Horiba, H. Fujioka, and H. Kumigashira,
Appl. Phys. Lett. **106**, 061605[1-5] (2015).

42. "Direct Growth of Metallic $TiH_2$ Thin Films by Pulsed-Laser Deposition",
K. Yoshimatsu, T. Suzuki, N. Tsuchimine, K. Horiba, H. Kumigashira, T. Oshima, and A. Ohtomo,
Appl. Phys. Express **8**, 035801[1-4] (2015).

43. "Proton conduction of $BaCe_{0.90}Y_{0.10}O_{3-\delta}$ thin film with lattice distortion",
T. Higuchi, T. Owaku, Y. Iida, E. Sakai, M. Kobayashi, and H. Kumigashira,
Solid State Ionics **270**, 1-5 (2015).

44. "Synthesis and magnetic properties of double-perovskite oxide $La_2MnFeO_6$ thin films",
K. Yoshimatsu, K. Nogami, K. Watarai, K. Horiba, H. Kumigashira, O. Sakata, T. Oshima, and A. Ohtomo,
Phys. Rev. B **91**, 054421:1-6 (2015).

45. "X-ray spectroscopic study of $BaFeO_3$ thin films: An $Fe^{4+}$ ferromagnetic insulator",
T. Tsuyama, T. Matsuda, S. Chakraverty, J. Okamoto, E. Ikenaga, A. Tanaka, T. Mizokawa, H. Y. Hwang, Y. Tokura, and H. Wadati,
Phys. Rev. B **91**, 115101:1-7 (2015).

46. "X-ray induced lock-in transition of cycloidal magnetic order in a multiferroic perovskite manganite",
Y. Yamasaki, H. Nakao, Y. Murakami, T. Nakajima, A. Lafuente Sampietro, H. Ohsumi, M. Takata, T. Arima, and Y. Tokura,
Phys. Rev. B **91**, 100403(R):1-5 (2015).

47. "Lifshitz metal–insulator transition induced by the all-in/all-out magnetic order in the pyrochlore oxide Cd2Os2O7",
Z. Hiroi, J. Yamaura, T. Hirose, I. Nagashima, Y. Okamoto,
APL Materials **3**, 041501:1-11 (2015).

48. "Controlling band alignments by artificial interface dipoles at perovskite heterointerfaces",
Takeaki Yajima, Yasuyuki Hikita, Makoto Minohara, Christopher Bell, Julia A. Mundy, Lena F. Kourkoutis, David A. Muller, Hiroshi Kumigashira, Masaharu Oshima & Harold Y. Hwang,
Nature Communications **6**, 6759:1-5 (2015).

## <Conference>

CIFAR Quantum Materials Program Meeting
May 7-10, 2014
Hyatt Regency Hotel, Montreal, Canada
- Poster "Observation of orbital states SrIrO3/SrTiO3 superlatices studied by x-ray absorption spectroscopy"
  Hiroki Wadati

Lithuania-Japan Joint Science Symposium
May 9, 2014
Tsukuba, Japan
- Invited "Studies on strongly correlated electron systems by complementary use of quantum beams"
  Y. Murakami

The OIST International Workshop on Novel Quantum Materials and Phases (NQMP2014)
May 14-17, 2014
Okinawa, JAPAN
- Invited "Bipartite magnetic parent phases in the iron-oxypnictide superconductor"
  Jun-ichi Yamaura

The 13th International Conference on Muon Spin Rotation, Relaxation and Resonance (μSR2014)
June 1-6, 2014
Grindelwald, Switzerland
- Oral "Magnetic Ground State in Highly hydrogen doped LaFeAsO1−xHx."
  M. Hiraishi, K. M. Kojima, R. Kadono, A. Koda, I. Yamauchi, M. Miyazaki, S. Iimura, S. Matsuishi, and H. Hosono

The Eighth International Conference on the Science and Technology for Advanced Ceramics (STAC8)
June 25-27, 2014
Yokohama, Japan
- Poster "Layer-By-Layer Growth of Titanium Hydride on Metal-Oxide Substrates"
  T. Suzuki, K. Yoshimatsu, N. Tsuchimine, T. Oshima, K. Horiba, H. Kumigashira and A. Ohtomo

CC3DMR2014
June 23-July 6, 2014
Seoul, South Korea
- Invited "Unusual Behavior of the Subbands in Strongly-Correlated Oxide Quantum Well Structures"
  Hiroshi KUMIGASHIRA

The 2nd International Symposium on Science at J-PARC (J-PARC 2014)
July 12-15, 2014
Tsukuba, Japan
- Poster "Magnetic Ground State in Highly hydrogen doped LaFeAsO1−xHx."
  M. Hiraishi, K. M. Kojima, R. Kadono, A. Koda, I. Yamauchi, M. Miyazaki, S. Iimura, S. Matsuishi, and H. Hosono
- Invited "Bipartite Magnetic Parent Phases in the Iron Oxypnictide Superconductor"
  M. Hiraishi, S. Iimura, K. M. Kojima*, J. Yamaura, H. Hiraka, K. Ikeda, P. Miao, Y. Ishikawa, S. Torii, M. Miyazaki, I. Yamauchi, A. Koda, K. Ishii, M. Yoshida, J. Mizuki, R. Kadono, R. Kumai, T. Kamiyama, T. Otomo, Y. Murakami, S. Matsuishi and H. Hosono
- Oral "Canted spin moment at the ferromagnetic Ni / antiferromagnetic FeMn interface revealed by the depth-resolved X-ray magnetic circular dichroism and polarized neutron reflectivity"
  K. Amemiya, M Sakamaki, M.Mizusawa, and M.Takeda

11th International Conference on the Structure of Surfaces (ICSOS-11)
July 21-25, 2014
Coventry, UK
- Poster "Total-reflection high-energy positron diffraction (TRHEPD) for surface studies"
  A. Ichimiya, Y. Fukaya, I. Mochizuki, M. Maekawa, K. Wada, A. Kawasuso, T. Shidara, and T. Hyodo
- Oral "Surface-structure sensitivity of total-reflection high-energy positron diffraction (TRHEPD)"
  T. Hyodo, Y. Fukaya, I. Mochizuki, M. Maekawa, K. Wada, T. Shidara, A. Ichimiya, and A. Kawasuso
- Oral "Atomic configuration of Ge(001)-(4×2)-Pt and rutile-TiO2(110)-(1×2) surfaces determined by

TRHEPD rocking curve analysis"
I. Mochizuki, H. Ariga, Y. Fukaya, K. Wada, K. Asakura, M. Maekawa, A. Kawasuso, T. Shidara, and T. Hyodo
- Oral "Structure determination of two-dimensional atomic sheet of silicene using total relfection high-energy positron diffraction"
Y. Fukaya, I. Mochizuki, M. Maekawa, K. Wada, T. Hyodo, I. Matsuda, and A. Kawasuso
- Oral "Application of a linac-based slow-positron beam to total-reflection high-energy positron diffraction (TRHEPD) experiments"
K. Wada, M. Maekawa, Y. Fukaya, I. Mochizuki, T. Hyodo, T. Shidara, and A. Kawasuso

IUCr 2014 23rd Congress and general assembly of the International Union of Crystallography

August 5-12, 2014

Montreal, Canada
- Poster "A total reflection high-energy positron diffraction station at the KEK Slow Positron Facility"
K. Wada, M. Maekawa, Y. Fukaya, I. Mochizuki, T. Hyodo, T. Shidara, and A. Kawasuso
- Poster "Total reflection high-energy positron diffraction (TRHEPD) — an extremely surface sensitive technique"
T. Hyodo, Y. Fukaya, I. Mochizuki, M. Maekawa, K. Wada, T. Shidara, A. Ichimiya
- Poster "TRHEPD rocking curve analyses of Pt/Ge(001) and TiO2(110) surfaces"
I. Mochizuki, H. Ariga, Y. Fukaya, K. Wada, K. Asakura, M. Maekawa, A. Kawasuso, T. Shidara, and T. Hyodo
- Invited "Structure determination of two-dimensional atomic sheet of silicene using TRHEPD"
Yuki Fukaya, Izumi Mochizuki, Masaki Maekawa, Ken Wada, Toshio Hyodo, Iwao Matsuda, Atsuo Kawasuso
- Invited "Magnetic structure and 5d-electronic state in a pyrochlore iridate Eu2Ir2O7"
Hajime Sagayama

Asia Oceania Forum for Synchrotron Radiation Research (AOFSRR 2014)

September 15-17, 2014

Hsinchu, Taiwan
- Invited "Bipartite magnetic parent phases in the iron-oxypnictide superconductor"
Jun-ichi Yamaura
- Poster "Electronic-state, Spin-state and Crystal structure on Hydrogen-doped Iron-oxypnictide Superconductor"
Sachiko Maki

Energy Materials Nanotechnology 2014

September 22-25, 2014

Chengdu, China
- Oral "Synthesis and spectroscopicstudy on double-perovskite oxide thin films"
Kohei Yoshimatsu ,Kengo Nogami, Keisuke Watarai, Hisanori mashiko, Enju Sakai, Hiroshi Kumigashira, Osami Sakata, Takayoshi Oshima, and Akira Ohtomo

21st International Workshop on Oxide Electronics (IWOE-21)

September 29-October 1, 2014

New York, United States
- Poster "The potential profile at the LaAlO3/SrTiO3 (001) heterointerface in operando conditions"
M. Minohara, Y. Hikita, C. Bell, H. Inoue, M. Hosoda, H. K. Sato, H. Kumigashira, M. Oshima, E. Ikenaga, and H. Y. Hwang
- Poster "Band diagram on p-n junction of Mott-insulator LaMnO3 and band-insulator Nb:SrTiO3 determined by X-ray photoemission spectroscopy"
M. Kitamura, M. Kobayashi, E. Sakai, K. Horiba, R. Takahashi, M. Lippmaa, H. Fujioka, H. Kumigashira
- Poster "Kink Structure of Quasiparticle Band Dispersion in High-Resolution Angle-Resolved Photoemission Spectra on La0.6Sr0.4MnO3 Thin Films"
K. Horiba, M. Kitamura, K. Yoshimatsu, M. Minohara, E. Sakai, M. Kobayashi, and H. Kumigashira
- Poster "Bandwidth-controlled Metal-insulator Transition in Epitaxial PrNiO3 Ultrathin Films Induced by Dimensional Crossover"
E. Sakai, K. Yoshimatsu, M. Tamamitsu, K. Horiba, A. Fujimori, M. Oshima, and H. Kumigashira

Research Frontier of Transition-metal Compounds Opened by Advanced Spectroscopies

September 30- October 2, 2014

Sendai, Japan
- Invited "Ultrafast dynamics studied by time-resolved x-ray diffraction"
H. Wadati
- Invited "Unusual Behavior of the Subbands in Strongly-Correlated Oxide Quantum Well Structures"
Hiroshi KUMIGASHIRA

The 7th International Symposium on Surface Science (ISSS-7)

November 2-6, 2014

Matsue, Japan
- Poster "Voltage-induced changes in magnetism of FeCo/BaTiO3 thin films studied by X-ray absorption spectroscopy"
K.Amemiya and M.Sakamaki
- Poster "Observation of Fe/BaTiO3 interface state by x-ray absorption spectroscopy"
M.Sakamaki and K.Amemiya

India-Japan Workshop

November 13, 2013

Hyderabad, India
- Invited " Materials and Life Science at KEK "
Y. Murakami

The 18th SANKEN International Symposium & The 13th SANKEN Nanotechnology Symposium

December 10-11, 2013

The Congrès Convention Center,Osaka
- Invited "Unusual Behavior of the Subbands in Strongly-Correlated Oxide Quantum Well Structures"
Hiroshi KUMIGASHIRA