

## Publications

### <Paper>

- "Strongly Spin-Orbit Coupled Two-Dimensional Electron Gas Emerging near the Surface of Polar Semiconductors",  
M. Sakano, M. S. Bahramy, A. Katayama, T. Shimojima, H. Murakawa, Y. Kaneko, W. Malaeb, S. Shin, K. Ono, H. Kumigashira, R. Arita, N. Nagaosa, H. Y. Hwang, Y. Tokura, and K. Ishizaka,  
*Phys. Rev. Lett.* **110**, 107204:1-5 (2013).
- "High Density Polymer Brush Spontaneously Formed by the Segregation of Amphiphilic Diblock Copolymers to the Polymer/Water Interface",  
M. Inutsuka, N. L. Yamada, K. Ito, and H. Yokoyama,  
*ACS Macro Lett.* **2**, 265-268 (2013).
- "Resonant Photoemission Spectroscopy of the Cathode Material  $\text{Li}_x\text{Mn}_{0.5}\text{Fe}_{0.5}\text{PO}_4$  for Lithium-Ion Battery",  
S. Kurosumi, K. Horiba, N. Nagamura, S. Toyoda, H. Kumigashira, M. Oshima, S. Furutsuki, S. Nishimura, A. Yamada, and N. Mizuno,  
*J. Power Source* **226**, 42-46 (2013).
- "Impact of Mn–O–O–Mn superexchange pathways in a honeycomb lattice Mn oxide with small charge-transfer energy",  
H. Wadati, K. Kato, Y. Wakisaka, T. Sudayama, D. G. Hawthorn, T. Z. Regier, N. Onishi, M. Azuma, Y. Shimakawa, T. Mizokawa, A. Tanaka, G. A. Sawatzky,  
*Solid State Communications* **162**, 18–22 (2013).
- "Diffractometer for small angle resonant soft x-ray scattering under magnetic field",  
Yuichi Yamasaki, Takaaki Sudayama, Jun Okamoto, Hironori Nakao, Masato Kubota and Youichi Murakami,  
*J. Phys.: Conf. Ser.* **425**, 132012:1-4 (2013).
- "Fast polarization switching in the soft X-ray region at PF BL-16A",  
K. Amemiya, M. Sakamaki, T. Koide, K. Ito, K. Tsuchiya, K. Harada, T. Aoto, T. Shioya, T. Obina, S. Yamamoto, and Y. Kobayashi,  
*J. Phys.: Conf. Ser.* **425**, 152015:1-4 (2013).
- "Resonant soft X-ray scattering study of the magnetic structures in  $\text{La}_{1.5}\text{Ca}_{0.5}\text{CoO}_4$  using a high vacuum diffractometer with a 4-blade-slit detector system",  
J. Okamoto, K. Horigane, H. Nakao, K. Amemiya, M. Kubota, Y. Murakami and K. Yamada,  
*J. Phys.: Conf. Ser.* **425**, 202003:1-4 (2013).
- "Complex orbital state stabilized by strong spin-orbit coupling in a metallic iridium oxide  $\text{IrO}_2$ ",  
Y. Hirata, K. Ohgushi, J. Yamaura, H. Ohsumi, S. Takeshita, M. Takata and T. Arima,  
*Phys. Rev. B* **87**, 161111(R):1-5 (2013).
- "Spinodal Decomposition in the  $\text{TiO}_2\text{-VO}_2$  System",  
Z. Hiroi, H. Hayamizu, T. Yoshida, Y. Muraoka, Y. Okamoto, J. Yamaura, and Y. Ueda,  
*Chem. Mater.* **25**, 2202–2210 (2013).
- "Electronic structure of the 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).
- "Study of local disorder in  $\text{LiMn}(\text{Cr},\text{Ni})\text{O}_2$  compounds by extended X-ray absorption fine structure measurements",  
L. Maugeri, A. Iadecola, L. Simonelli, G. Chen, H. Wadati, T. Mizokawa, N.L. Saini,  
*Journal of Power Sources* **242**, 202-207 (2013).
- "Pressure Effects on Rattling and Superconductivity in the Einstein Solids",  
Y. Ikeda, Y. Kawasaki, T. Shinohara, S. Araki, T. C. Kobayashi, A. Onosaka, Y. Okamoto, J. Yamaura, and Z. Hiroi,  
*J. Phys. Soc. Jpn.* **82**, 063707:1-4 (2013).
- "Dewetting process of dehydrated polystyrene and poly (vinyl methyl ether) blend thin films via phase separation",  
T. Xia, H. Ogawa, R. Inoue, K. Nishida, N. L. Yamada, Guangxian Li, T. Kanaya,  
*Macromolecules* **46**, 4540-4547 (2013).
- "Resonant X-ray Diffraction Study of the Strongly Spin-Orbit-Coupled Mott Insulator  $\text{CaIrO}_3$ ",  
K. Ohgushi, J. Yamaura, H. Ohsumi, K. Sugimoto, S. Takeshita, A. Tokuda, H. Takagi, M. Takata, and T. Arima,  
*Phys. Rev. Lett.* **110**, 217212:1-5 (2013).
- "Effects of Zn substitution on the electronic structure of  $\text{BaFe}_2\text{As}_2$  revealed by angle-resolved photoemission spectroscopy",  
S. Ideta, T. Yoshida, M. Nakajima, W. Malaeb, T. Shimojima, K. Ishizaka, A. Fujimori, H. Kimigashira, K. Ono, K. Kihou, Y. Tomioka, C. H. Lee, A. Iyo, H. Eisaki, T. Ito, and S. Uchida,  
*Phys. Rev. B* **87**, 201110R:1-5 (2013).

16. "X-ray absorption and magnetic circular dichroism characterization of Fe-doped  $TiO_{2-\delta}$  thin films", E. Sakai, K. Amemiya, A. Chikamatsu, Y. Hirose, T. Shimada, T. Hasegawa, *J. Magn. Magn. Mater.* **333**, 130-133 (2013).
17. "Charge-cluster glass in an organic conductor", F. Kagawa, T. Sato, K. Miyagawa, K. Kanoda, Y. Tokura, K. Kobayashi, R. Kumai & Y. Murakami, *Nature Physics* **9**, 419–422 (2013).
18. "A simple shape-free model for pore-size estimation with positron annihilation lifetime spectroscopy", K. Wada and T. Hyodo, *J. Phys.: Conf. Ser.* **443**, 012004:1-4 (2013).
19. "Reflection high-energy positron diffraction: the past 15 years and the future", Y. Fukaya, M. Maekawa, I. Mochizuki, K. Wada, T. Hyodo, and A. Kawasuso, *J. Phys.: Conf. Ser.* **443**, 012068:1-6 (2013).
20. "Efficient emission of positronium atoms from an Na-coated polycrystalline tungsten surface", H. Terabe, S. Iida, K. Wada, T. Hyodo, A. Yagishita, and Y. Nagashima, *J. Phys.: Conf. Ser.* **443**, 012075:1-4 (2013).
21. "New experiment stations at KEK Slow Positron Facility", K. Wada, T. Hyodo, T. Kosuge, Y. Saito, M. Ikeda, S. Ohsawa, T. Shidara, K. Michishio, T. Tachibana, H. Terabe, Y. Nagashima, Y. Fukaya, M. Maekawa, I. Mochizuki, and A. Kawasuso, *J. Phys.: Conf. Ser.* **443**, 012082:1-6 (2013).
22. "Spin-state responses to light impurity substitution in low-spin perovskite  $LaCoO_3$ ", Keisuke Tomiyasu, Yuuki Kubota, Saya Shimomura, Mitsugi Onodera, Syun-Ichi Koyama, Tsutomu Nojima, Sumio Ishihara, Hironori Nakao, and Youichi Murakami, *Phys. Rev. B* **87**, 224409:1-8 (2013).
23. "Collapsed tetragonal phase transition of  $Ca(Fe_{1-x}Rh_x)_2As_2$  studied with photoemission spectroscopy", K. Tsubota, T. Wakita, H. Nagao, C. Hiramatsu, T. Ishiga, M. Sunagawa, K. Ono, H. Kumigashira, M. Danura, K. Kudo, M. Nohara, Y. Muraoka, and T. Yokoya, *J. Phys. Soc. Jap.* **82**, 073705:1-5 (2013).
24. "Temperature dependence of remanent magnetization of thin films at the interface to a nonmagnetic material: Cu/Ni/Cu(100)", Kenta Amemiya and Masako Sakamaki, *Phys. Rev. B* **88**, 014401:1-5 (2013).
25. "Spin-Orbital Superstructure in Strained Ferrimagnetic Perovskite Cobalt Oxide", J. Fujioka, Y. Yamasaki, H. Nakao, R. Kumai, Y. Murakami, M. Nakamura, M. Kawasaki, and Y. Tokura, *Phys. Rev. Lett.* **111**, 027206:1-5 (2013).
26. "Spin orientation transition across the single-layer graphene/nickel thin film interface", Yoshihiro Matsumoto, Shiro Entani, Akihiro Koide, Manabu Ohtomo, Pavel V. Avramov, Hiroshi Naramoto, Kenta Amemiya, Takashi Fujikawa and Seiji Sakai, *J. Mater. Chem. C* **1**, 5533-5537 (2013).
27. "Role of Oxygen Holes in  $Li_xCoO_2$  Revealed by Soft X-Ray Spectroscopy", T. Mizokawa, Y. Wakisaka, and T. Sudayama, C. Iwai, K. Miyoshi, and J. Takeuchi, H. Wadati, D. G. Hawthorn, T. Z. Regier, G. A. Sawatzky, *Phys. Rev. Lett.* **111**, 056404:1-5 (2013).
28. "Electronic and transport properties of Eu-substituted infinite-layer strontium ferrite thin films", A. Chikamatsu, T. Matsuyama, T. Katayama, Y. Hirose, H. Kumigashira, M. Oshima, T. Fukukmura, and T. Hasegawa, *J. Cry. Growth* **378**, 165-167 (2013).
29. "Absence of Superconductivity in the hole-doped Fe pnictide  $Ba(Fe_{1-x}Mn_x)_2As_2$ : Photoemission and X-ray Absorption Spectroscopy Studies", H. Suzuki, T. Yoshida, S. Ideta, G. Shibata, K. Ishigami, T. Kadono, A. Fujimori, M. Hashimoto, D. H. Lu, Z.-X. Shen, K. Ono, E. Sakai, H. Kumigashira, M. Matsuo, and T. Sasagawa, *Phys. Rev. B* **88**, 100501R:1-5 (2013).
30. "Narrowing of phonon spectrum induced by ultrafast charge fluctuations in an organic dimer Mott insulator", K. Itoh, H. Itoh, S. Saito, I. Hosako, Y. Nakamura, H. Kishida, N. Yoneyama, T. Sasaki, S. Ishihara, and S. Iwai, *Phys. Rev. B* **88**, 125101:1-6 (2013).
31. "Dynamical Jahn-Teller Effect in Spin-Orbital Coupled System", J. Nasu, and S. Ishihara, *Phys. Rev. B* **88**, 094408:1-6 (2013).
32. "Hard X-ray photoemission spectroscopy of transition-metal oxide thin films and interfaces", H. Wadati, A. Fujimori, *Journal of Electron Spectroscopy and Related Phenomena* **190**, 222–227 (2013).

33. "Multistep Thickening of Nafion Thin Films in Water", Y. Ogata, D. Kawaguchi, N. L. Yamada, K. Tanaka, *ACS Macro Lett.* **2**, 856-859 (2013).
34. "Determination of the surface and interface phase shifts in metallic quantum well structures of perovskite oxides", K. Yoshimatsu, E. Sakai, M. Kobayashi, K. Horiba, T. Yoshida, A. Fujimori, M. Oshima, and H. Kumigashira, *Phys. Rev. B* **88**, 115308:1-5 (2013).
35. "Epitaxial synthesis and electronic properties of double-perovskite  $\text{Sr}_2\text{TiRuO}_6$  films", K. Nogami, K. Yoshimatsu, H. Mashiko, E. Sakai, H. Kumigashira, O. Sakata, T. Oshima, and A. Ohtomo, *Appl. Phys. Exp.* **6**, 105502:1-4 (2013).
36. "Growth of Single Crystal and Effects of Electron Doping in Filled Skutterudite Compound  $\text{PrFe}_4\text{P}_{12}$ ", Lijie Hao, Kazuaki Iwasa, Rongdeng Liu, Xiaobai Ma, Zhongxiao Liu, Shiliang Li, Ding Hu, Yuntao Liu, Dongfeng Chen, *Advanced Materials Research* **807-809**, 2793-2796 (2013).
37. " $\text{BaFeO}_3$  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).
38. "Understanding of the Temperature-Pressure Phase Diagram of  $\beta$ -Pyrochlore Oxides: a Role of Anharmonicity on Superconductivity", T. Isono, D. Iguchi, T. Matsubara, Y. Machida, B. Salce, J. Flouquet, H. Ogusu, J. Yamaura, Z. Hiroi, and K. Izawa, *J. Phys. Soc. Jpn.* **82**, 114708:1-9 (2013).
39. "Superconductivity in  $\text{Ba}_{n+2}\text{Ir}_n\text{Ge}_{12n+4}$  ( $n=1,2$ ) with cage structure and softening of low-lying localized mode", J. Guo, J. Yamaura, H. Lei, S. Matsuishi, Y. Qi, and H. Hosono, *Phys. Rev. B* **88**, 140507(R):1-5 (2013).
40. "Spin State of  $\text{Co}^{3+}$  in  $\text{LaCo}_{1-x}\text{Rh}_x\text{O}_3$  Investigated by Structural Phenomena", Shinichiro Asai, Ryuji Okazaki, Ichiro Terasaki, Yukio Yasui, Wataru Kobayashi, Akiko Nakao, Kensuke Kobayashi, Reiji Kumai, Hironori Nakao, Youichi Murakami, Naoki Igawa, Akinori Hoshikawa, Toru Ishigaki, Outi Parkkima, Maarit Karppinen, and Hisao Yamauchi, *J. Phys. Soc. Jpn.* **82**, 114606:1-6 (2013).
41. "Observation of rebirth of metallic paths during resistance switching of metal nanowire", K. Horiba, K. Fujiwara, N. Nagamura, S. Toyoda, H. Kumigashira, M. Oshima, and H. Takagi, *Appl. Phys. Lett.* **103**, 193114:1-3 (2013).
42. "Structure of silicene on a  $\text{Ag}(111)$  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**, 205413:1-4 (2013).
43. "Vibronic excitation dynamics in orbitally degenerate correlated electron system", J. Nasu and S. Ishihara, *Phys. Rev. B* **88**, 205110:1-12 (2013). Editors' Suggestion
44. "Spectroscopic studies on the electronic and magnetic states of Co-doped perovskite manganite  $\text{Pr}_{0.8}\text{Ca}_{0.2}\text{Mn}_{1-y}\text{Co}_y\text{O}_3$  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).
45. "Newly Proposed Inelastic Neutron Spectrometer POLANO", Tetsuya Yokoo, Kenji Ohoyama, Shinichi Itoh, Junichi Suzuki, Kazuaki Iwasa, Taku J Sato, Hiroshi Kira, Yoshifumi Sakaguchi, Takashi Ino, Takayuki Oku, Keisuke Tomiyasu, Masato Matsuura, Haruhiro Hiraka, Masaki Fujita, Hiroyuki Kimura, Toyoto Sato, Junichi Suzuki, Masayasu Takeda, Koji Kaneko, Masahiro Hino, Suguru Muto, *J. Phys. Soc. Jpn. Supplement A* **82**, SA035:1-5 (2013).
46. "Basic Concepts of Polarisation Analysis for Neutron Chopper Spectrometer POLANO at J-PARC", K. Ohoyama, T. Yokoo, S. Itoh, J. Suzuki, K. Iwasa, T. J. Sato, H. Kira, Y. Sakaguchi, T. Ino, T. Oku, K. Tomiyasu, M. Matsuura, H. Hiraka, M. Fujita, H. Kimura, T. Sato, J. Suzuki, H. M. Shimizu, T. Arima, M. Takeda, K. Kaneko, M. Hino, S. Muto, H. Nojiri, C. H. Lee, J. G. Park, S. Choi, *J. Phys. Soc. Jpn. Supplement A* **82**, SA036:1-6 (2013).
47. "Broken relationship between superconducting pairing interaction and electronic dispersion kinks in  $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$  measured by angle-resolved photoemission", S. R. Park, Y. Cao, Q. Wang, M. Fujita, K. Yamada, S.-K. Mo, D. S. Dessau, D. Reznik, *Phys. Rev. B* **88**, 220503:1-6 (2013).
48. "Multiple helimagnetic phases and topological Hall effect in epitaxial thin films of pristine and Co-doped

- SrFeO<sub>3</sub>",  
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).
49. "Insulator-to-Superconductor Transition upon Electron Doping in a BiS<sub>2</sub>-Based Superconductor Sr<sub>1-x</sub>La<sub>x</sub>FBiS<sub>2</sub>",  
Hideaki Sakai, Daichi Kotajima, Kosuke Saito, Hiroki Wadati, Yuki Wakisaka, Masaichiro Mizumaki, Kiyofumi Nitta, Yoshinori Tokura, and Shintaro Ishiwata,  
*J. Phys. Soc. Jpn.* **83**, 014709:1-7 (2014).
50. "Ar<sup>+</sup> ion milling-induced suppression of surface oxidation in Fe<sub>70</sub>Co<sub>30</sub> thin films",  
M. Sakamaki, K. Amemiya, A. Nambu, K. Ueda, J. Shimizu, and K. Watanabe,  
*Mater. Chem. Phys.* **143**, 281-285 (2013).
51. "Membrane formation by preferential solvation of ions in mixture of water, 3-methylpyridine, and sodium tetraphenylborate",  
K. Sadakane, M. Nagao, H. Endo, and H. Seto,  
*Journal of Chemical Physics* **139**, 234905 (2013).
52. "Chemical-state-resolved depth profiles of Al/Pr<sub>0.7</sub>Ca<sub>0.3</sub>MnO<sub>3</sub> stacked structures for application in resistive switching devices",  
S. Toyoda, T. Namiki, E. Sakai, K. Nakata, M. Oshima, and H. Kumigashira,  
*J. Appl. Phys.* **114**, 243711:1-5 (2013).
53. "Polarization Switching Ability Dependent on Multidomain Topology in a Uniaxial Organic Ferroelectric",  
Fumitaka Kagawa, Sachio Horiuchi, Nao Minami, Shoji Ishibashi, Kensuke Kobayashi, Reiji Kumai, Youichi Murakami, and Yoshinori Tokura,  
*Nano Lett.* **14**(1), 239-243 (2014).
54. "Pseudogap Formation above the superconducting dome in iron-pnictides",  
T. Shimojima, T. Sonobe, W. Malaeb, K. Shinada, A. Chainani, S. Shin, T. Yoshida, S. Ideta, A. Fujimori, H. Kumigashira, K. Ono, Y. Nakashima, H. Anzai, M. Arita, A. Ino, H. Namatame, M. Taniguchi, M. Nakajima, S. Uchida, Y. Tomioka, T. Ito, K. Kihou, C. H. Lee, A. Iyo, H. Eisaki, K. Ohgushi, S. Kasahara, T. Terashima, H. Ikeda, T. Shibauchi, Y. Matsuda, K. Ishizaka,  
*Phys. Rev. B* **89**, 045101:1-10 (2014).
55. "Ionic versus Electronic Ferroelectricity in Donor–Acceptor Molecular Sequences",  
Sachio Horiuchi, Kensuke Kobayashi, Reiji Kumai, Shoji Ishibashi,  
*Chem. Lett.* **43**(1), 26-35 (2014).
56. "Evidence for a charge collective mode associated with superconductivity in copper oxides from neutron and x-ray scattering measurements of La<sub>2-x</sub>Sr<sub>x</sub>CuO<sub>4</sub>",  
S. R. Park, T. Fukuda, A. Hamann, D. Lamago, L. Pintschovius, M. Fujita, K. Yamada, D. Reznik,  
*Phys. Rev. B* **89**, 020506:1-5 (2014).
57. "Twisted magnetic structure in ferromagnetic ultrathin Ni films induced by magnetic anisotropy interaction with antiferromagnetic FeMn",  
Kenta Amemiya, Masako Sakamaki, Mari Mizusawa, and Masayasu Takeda,  
*Phys. Rev. B* **89**, 054404:1-6 (2014).
58. "Protonation of Pyridyl-Substituted TTF Derivatives: Substituent Effects in Solution and in the Proton-Electron Correlated Charge-Transfer Complexes",  
Sang Chul Lee, Akira Ueda, Akiko Nakao, Reiji Kumai, Hironori Nakao, Youichi Murakami, and Hatsumi Mori  
*Chem. Eur. J.* **20**, 1909-1917 (2014).
59. "Change in magnetic and structural properties of FeRh thin films by gold cluster ion beam irradiation with the energy of 1.67 MeV/atom",  
T. Koide, Y. Saitoh, M. Sakamaki, K. Amemiya, A. Iwase, and T. Matsui,  
*J. Appl. Phys.* **115**, 17B722:1-3 (2014).
60. "Electronic State of CeFe<sub>4</sub>As<sub>12</sub> Investigated by Using Single Crystals Grown under High Pressure of 4 GPa",  
Y. Ogawa, H. Sato, M. Watanabe, T. Namiki, S. Tatsuoka, R. Higashinaka, Y. Aoki, K. Kuwahara, J. Yamaura, Z. Hiroi,  
*J. Phys. Soc. Jpn.* **83**, 034710:1-7 (2014).
61. "Emergence of reentrant metal-nonmetal transition in Pr<sub>0.85</sub>Ce<sub>0.15</sub>Ru<sub>4</sub>P<sub>12</sub> and Pr(Ru<sub>0.95</sub>Rh<sub>0.05</sub>)<sub>4</sub>P<sub>12</sub>",  
Kotaro Saito, Claire Laulhe, Takahiro Sato, Lijie Hao, Jean-Michel Mignot, and Kazuaki Iwasa,  
*Phys. Rev. B* **89**, 075131:1-8 (2014).
62. "Magnetic Frustration in Iridium Spinel Compound CuIr<sub>2</sub>S<sub>4</sub>",  
K. M. Kojima, R. Kadono, M. Miyazaki, M. Hiraishi, I. Yamauchi, A. Koda, Y. Tsuchiya, H. S. Suzuki, and H. Kitazawa,  
*Phys. Rev. Lett.* **112**, 087203:1-5 (2014).
63. "Revealing orbital and magnetic phase transitions in Pr<sub>0.5</sub>Ca<sub>0.5</sub>MnO<sub>3</sub> epitaxial thin films by resonant soft x-ray scattering",  
H. Wadati, J. Geck, E. Schierle, R. Sutarto, F. He, D. G. Hawthorn, M. Nakamura, M. Kawasaki, Y. Tokura and G. A. Sawatzky,  
*New J. Phys.* **16**, 033006:1-12 (2014).

64. "Emergence of nonequilibrium charge dynamics in a charge-cluster glass ",  
T. Sato, F. Kagawa, K. Kobayashi, K. Miyagawa, K. Kanoda, R. Kumai, Y. Murakami, and Y. Tokura,  
*Phys. Rev. B* **89**, 121102(R):1-5 (2014).
65. "Antiferromagnetic Order of the Co<sup>2+</sup> High-Spin State with a Large Orbital Angular Momentum in La<sub>1.5</sub>Ca<sub>0.5</sub>CoO<sub>4</sub>",  
Jun Okamoto, Hironori Nakao, Yuichi Yamasaki, Hiroki Wadati, Arata Tanaka, Masato Kubota, Kazumasa Horigane, Youichi Murakami, and Kazuyoshi Yamada,  
*J. Phys. Soc. Jpn.* **83**, 044705:1-6 (2014).
66. "Bipartite magnetic parent phases in the iron oxyphosphate 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 & H. Hosono,  
*Nature Physics* **10**, 300–303 (2014).
67. "Evolution of magnetic and structural transitions and enhancement of magnetocaloric effect in Fe<sub>1-x</sub>Mn<sub>x</sub>V<sub>2</sub>O<sub>4</sub>",  
D. Choudhury, T. Suzuki, D. Okuyama, D. Morikawa, K. Kato, M. Takata, K. Kobayashi, R. Kumai, H. Nakao, Y. Murakami, M. Bremholm, B. B. Iversen, T. Arima, Y. Tokura, and Y. Taguchi,  
*Phys. Rev. B* **89**, 104427:1-6 (2014).
68. "Enhancement of perpendicular magnetic anisotropy by compressive strain in alternately layered FeNi thin films",  
M. Sakamaki and K. Amemiya,  
*J. Phys.: Cond. Matter* **26**, 166002 (2014).
69. "Adachiite, a Si-poor member of the tourmaline supergroup from the Kiura mine, Oita Prefecture, Japan",  
Daisuke Nishio-Hamane, Tetsuo Minakawa, Jun-ichi Yamaura, Takashi Oyama, Masayuki Ohnishi, Norimasa Shimobayashi,  
*J. of Miner. Petrol. Sci.* **109**, 74-78 (2014).
70. "Total reflection high-energy positron diffraction: An ideal diffraction technique for surface structure analysis",  
Y. Fukaya, M. Maekawa, A. Kawasuso, I. Mochizuki, K. Wada, T. Shidara, A. Ichimiya, and T. Hyodo,  
*Appl. Phys. Express* **7**, 056601:1-4 (2014).
71. "Microscopic origin of ferrimagnetism of a double perovskite Sr<sub>2</sub>FeMoO<sub>6</sub>: An X-ray magnetic circular dichroism study",  
T. Koide, T. Sekine, H. Miyauchi, H. Manaka, D. Asakura, A. Fujimori, K. -I. Kobayashi, Y. Tomioka, T. Kimura, and Y. Tokura,  
*J. Phys.: Conf. Ser.* **502**, 012003:1-4 (2014).
72. "Development of an in-vacuum diffractometer for resonant soft X-ray scattering",  
H Nakao, Y Yamasaki, J Okamoto, T Sudayama, Y Takahashi, K Kobayashi, R Kumai and Y Murakami,  
*J. Phys.: Conf. Ser.* **502**, 012015:1-4 (2014).
73. "Construction of a soft X-ray diffractometer with a 7.5-T superconducting magnet",  
Jun Okamoto, Hironori Nakao, Yuichi Yamasaki, Takaaki Sudayama, Kensuke Kobayashi, Yukari Takahashi, Hiroyuki Yamada, Akihito Sawa, Masato Kubota, Reiji Kumai and Youichi Murakami,  
*J. Phys.: Conf. Ser.* **502**, 012016:1-4 (2014).
74. "Molecular electronic states in charge transfer complex studied by x-ray absorption spectroscopy ",  
Y Takahashi, H Nakao, R Kumai, S Ishibashi, S Horiuchi, M Kohyama, K Kobayashi, Y Yamasaki, J Okamoto, T Sudayama, Y Murakami and Y Tokura,  
*J. Phys.: Conf. Ser.* **502**, 012036:1-4 (2014).
75. "Detector development for a high-flux neutron reflectometer",  
S. Sato, N. L. Yamada, and S. Muto,  
*J. Phys.: Conf. Ser.* **502**, 012050:1-4 (2014).
76. "Development of Spectroelectrochemical Cells for *in situ* Neutron Reflectometry",  
M. Yonemura, M. Hirayama, K. Suzuki, R. Kanno, N. Torikai, and N. L. Yamada,  
*J. Phys.: Conf. Ser.* **502**, 012054:1-4 (2014).
77. "Adsorption of water to double-network polymers having a hierarchical structure",  
T. Tominaga, S. Takata, J. Suzuki, K. Aizawa, H. Seto, and M. Arai,  
*J. Phys.: Conf. Ser.* **502**, 012058 (2014).
78. "Magnetic and electronic properties of (LaMnO<sub>3</sub>)<sub>5</sub>(SrMnO<sub>3</sub>)<sub>5</sub> superlattice revealed by resonant soft X-ray scattering",  
Masato Kubota, Hiroyuki Yamada, Hironori Nakao, Jun Okamoto, Yuichi Yamasaki, Akihito Sawa, and Youichi Murakami,  
*Jpn. J. Appl. Phys.* **53**, 05FH07:1-5 (2014).
79. "High-energy spin and charge excitations in electron-doped copper oxide superconductors",  
K. Ishii, M. Fujita, T. Sasaki, M. Minola, G. Dellea, C. Mazzoli, K. Kummer, G. Ghiringhelli, L. Braicovich, T. Tohyama, K. Tsutsumi, K. Sato, R. Kajimoto, K. Ikeuchi, K. Yamada, M. Yoshida, M. Kurooka & J. Mizuki,  
*Nature Commun.* **5**, 3714:1-8 (2014).
80. "Positronium and positronium negative ion emission



from alkali-metal coated tungsten surfaces",  
Y. Nagashima, K. Michishio, H. Terabe, R. H. Suzuki,  
S. Iida, T. Yamashita, R. Kimura, T. Tachibana, I.  
Mochizuki, K. Wada, A. Yagishita, and T. Hyodo,  
J. Phys.: Conf. Ser. **505**, 012037:1-6 (2014).

81. "Reflection high-energy positron diffraction study on  
the first surface layer",  
Y. Fukaya, M. Maekawa, I. Mochizuki, K. Wada, T.  
Hyodo, and A. Kawasuso,  
J. Phys. Conf. Ser. **505**, 012005:1-6 (2014).

82. "Total reflection high-energy positron diffraction  
(TRHEPD)",  
T. Hyodo, Y. Fukaya, M. Maekawa, I. Mochizuki, K.  
Wada, T. Shidara, A. Ichimiya, and A. Kawasuso,  
J. Phys.: Conf. Ser. **505**, 012001:1-5 (2014).

83. "Neutron magnetic scattering study in manganite thin  
film system",  
H. Nakao, H. Yamada, A. Sawa, K. Iwasa, J. Okamoto,  
T. Sudayama, Y. Yamasaki, Y. Murakami,  
Solid State Communications **185**, 18-20 (2014).

## <Conference>

### 2013 MRS Spring Meeting & Exhibit

April 1-5, 2013

San Francisco, California

- Poster " Epitaxially Stabilized Perovskite  
EuMoO<sub>3</sub>: A New Itinerant Ferromagnet "  
T. C. Fujita, Y. Kozuka, H. Seki, S. Chakraverty, K.  
Yoshimatsu, H. Kumigashira, M. Oshima, M. S.  
Bahramy, R. Arita, and M. Kawasaki
- Poster " Depth profile of the potential at the  
LaAlO<sub>3</sub>/SrTiO<sub>3</sub> heterointerface "  
M. Minohara, C. Bell, Y. Hikita, M. Hosoda, H. K.  
Sato, H. Kumigashira, M. Oshima, E. Ikenaga and H.  
Y. Hwang

### CIFAR Quantum Materials Program Meeting

May 8-12, 2013

Coast Plaza and Suites Hotel, Vancouver, Canada

- Poster " Coexistence of multiple magnetic  
orderings in SrCo<sub>6</sub>O<sub>11</sub> revealed by resonant soft x-ray  
scattering "  
Hiroki Wadati

### Quantum in Complex Matter Super Stripes 2013

May 27-June 1, 2013

Ischia, Italy

- Invited " Dynamical Jan-Teller effect and quantum  
spin liquid in correlated electron materials "  
S. Ishihara

### The 7th International Conference on the Science and Technology for Advance Ceramics (STAC-7)

June 19-21, 2013

Mielparque Yokohama

- Invited " Symphonic Use of Quantum Beams in the  
Elements Strategy Project "  
Youichi Murakami, Kenji M. Kojima, Jun-ichi  
Yamaura, Haruhiro Hiraka, Hiroshi Kumigashira,  
Hitoshi Abe, Ryosuke Kadono, Soshi Iimura, Satoru  
Matsui, Hideo Hosono
- Poster " Modulation of electronic structure in  
 $\alpha$ -(Cr $\chi$ Fe $1-\chi$ )<sub>2</sub>O<sub>3</sub> solid solution for improving visible  
-light photocatalytic activity "  
H. Mashiko T. Oshima K. Yoshimatsu E. Sakai  
H. Kumigashira and A. Ohtomo
- Poster " Epitaxial synthesis and electronic  
properties of double-perovskite Sr<sub>2</sub>TiRuO<sub>6</sub> "  
K. Nogami H. Mashiko K. Yoshimatsu E. Sakai  
H. Kumigashira O. Sakata T. Oshima and A. Ohtomo

### Collaborative Conference on 3D & Materials Research 2013

June 24-28, 2013

Ramada Plaza Jeju Hotel, Jeju, South Korea

- Invited " Magnetic orderings of Mn and Co oxides  
studied by resonant soft X-ray scattering and  
spectroscopy "  
Jun Okamoto
- Invited " Magnetic and crystalline structures of  
ultrathin films studied by X-ray absorption  
spectroscopy "  
K. Amemiya and M. Sakamaki
- Invited " Electric polarization, polar collective  
excitation and superconductivity in correlated  
electrons of organic material "  
S. Ishihara

### 2013 NIMS Conference

July 1-3, 2013

Tukuba, Japan

- Poster " Phase Competitions in  
Pr<sub>0.5</sub>Ca<sub>0.5</sub>MnO<sub>3</sub>/La<sub>0.5</sub>Sr<sub>0.5</sub>MnO<sub>3</sub> Superlattices "  
Hiroki Wadati

### International Conference on Neutron Scattering ICNS2013

July 8-12, 2013

The Edinburgh International Conference Centre,  
Edinburgh, Scotland

- Poster " Construction of Polarisation Analysis  
Neutron Chopper Spectrometer POLANO at J-PARC "  
Kenji Ohoyama, Tetsuya Yokoo, Sinichi Itoh, Kazuaki  
Iwasa, Taku J. Sato, Takashi Ino, Takayuki Oku

### The 12th Asia Pacific Physics Conference (APPC12)

July 14-19, 2013

Makuhari Messe, Chiba, Japan

- Invited " Unusual behavior of the subbands in  
strongly-correlated oxide quantum well structures "  
Hiroshi KUMIGASHIRA
- Invited " Electronic ordering states in strongly

correlated electron systems studied by utilizing the synchrotron radiation "

Hironori Nakao

- Oral " Total Reflection Positron Diffraction "
  - T. Hyodo, Y. Fukaya, I. Mochizuki, M. Maekawa, K. Wada, A. Kawasuso
- Poster " Recent Developments and Results of the KEK Slow Positron Facility "
  - K. Wada, I. Mochizuki, T. Hyodo, T. Kosuge, Y. Saito, K. Nigorikawa, T. Shidara, S. Ohsawa, M. Ikeda, A. Shirakawa, K. Furukawa, T. Sanami, K. Michishio, R. H. Suzuki, H. Terabe, S. Iida, Y. Nagashima, Y. Fukaya, M. Maekawa, A. Kawasuso, T. Tachibana, T. Hirayama, T. Shirasawa, T. Takahashi, M. Fujinami

REXS2013

July 15-19, 2013

Oxford, UK

- Oral " Antiferromagnetic order of the  $\text{Co}^{2+}$  high-spin state with a large orbital angular momentum in  $\text{La}_{1.5}\text{Ca}_{0.5}\text{CoO}_4$  "
  - Jun Okamoto

The XVII International Workshop on Low-Energy Positron and Positronium Physics and the XVIII International Symposium on Electron-Molecule Collisions and Swarms (POSMOL 2013)

July 19-21, 2013

Kanazawa, Japan

- Poster " Analysis of atomic configurations of  $\text{Ge}(001)\text{-Pt}$  and  $\text{TiO}_2(110)$  surfaces by using high-brightness reflection high-energy positron diffraction "
  - I. Mochizuki, H. Ariga, Y. Fukaya, K. Wada, T. Hyodo, K. Asakura, M. Maekawa, and A. Kawasuso
- Poster " Time-of-flight measurements of positronium emitted from a tungsten surface at high temperatures "
  - S. Iida, H. Terabe, T. Yamashita, T. Tachibana, I. Mochizuki, K. Wada, T. Hyodo, and Y. Nagashima
- Invited " Recent researches with a high-intensity slow-positron beam at KEK-IMSS-SPF "
  - K. Wada, I. Mochizuki, T. Hyodo, T. Kosuge, Y. Saito, K. Nigorikawa, T. Shidara, S. Ohsawa, M. Ikeda, A. Shirakawa, K. Furukawa, T. Sanami, K. Michishio, R. H. Suzuki, H. Terabe, S. Iida, Y. Nagashima, Y. Fukaya, M. Maekawa, A. Kawasuso, T. Tachibana, T. Hirayama, T. Shirasawa, T. Takahashi, and M. Fujinami

Advanced Spectroscopy of Correlated Materials(ASCM13)

August 2-4, 2013

Okazaki Conference Center and UVSOR Facility, Japan

- Invited " Quantum confinement of strongly correlated electrons in oxide artificial structures "
  - K. Yoshimatsu

International Conference on Strongly Correlated

Electron Systems 2013

August 5-9, 2013

The University of Tokyo, Japan

- Poster " Phase competitions in  $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3/\text{La}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$  superlattices "
  - Hiroki Wadati
- Poster " New Structural Modulations of the Cage Lattice Systems  $\text{GdB}_6$  and  $\text{DyB}_6$  "
  - K. Iwasa, R. Igarashi, and M. Amano
- Poster " Neutron scattering study of the magnetic state in  $\text{PrCu}_4\text{Au}$  "
  - H. Kobayashi, K. Iwasa, K. Saito, K. Tomiyasu, D. Kawana, S. Zhang, Y. Isikawa, J.-M. Mignot, G. André, A. I. Kolesnikov, A. T. Savici, and G. E. Granroth
- Poster " Effects of Co substitution on the magnetic excitation in heavy fermion compound  $\text{PrFe}_4\text{P}_{12}$  "
  - L. Hao, K. Iwasa, H. Kobayashi, K. Nakajima, S. Ohira-Kawamura, T. Kikuchi, Z. Liu, Y. Liu, D. Chen
- Oral " Angle-resolved photoemission spectroscopy study of high-Tc iron-based superconductor  $\text{Ca}_{0.82}\text{La}_{0.18}\text{Fe}_2(\text{As}_{0.94}\text{P}_{0.06})_2$  "
  - M. Sunagawa, T. Ishiga, K. Tsubota, T. Jabuchi, J. Sonoyama, K. Iba, K. Kudo, M. Nohara, K. Ono, H. Kumigashira, T. Wakita, Y. Muraoka and T. Yokoya
- Oral " High-resolution photoemission study on  $\text{CeT}_2\text{Al}_{10}$  (T = Fe, Ru, and Os) "
  - T. Ishiga, R. Yoshida, H. Okazaki, K. Tsubota, M. Sunagawa, K. Uenaka, K. Okada, H. Kumigashira, M. Oshima, K. Yutani, Y. Muro, T. Takabatake, T. Wakita, Y. Muraoka, T. Yokoya

LPBMS2013

August 29-31, 2013

Tsukuba, Japan

- Invited " Polarization Origin in Organic Supramolecular Ferroelectrics "
  - Reiji KUMAI
- Invited " Observation of the surface and interface of magnetic thin films towards the control of their properties "
  - Kenta Amemiya
- Oral " Tetrahedral Magnetic Order and the Metal-Insulator Transition in the Pyrochlore Oxide  $\text{Cd}_2\text{Os}_2\text{O}_7$  "
  - J. Yamaura, K. Ohgushi, H. Ohsumi, T. Hasegawa, I. Yamauchi, K. Sugimoto, S. Takeshita, A. Tokuda, S. Tsutsui, Y. Yoda, S. Kitao, M. Kurokuzu, M. Seto, M. Udagawa, M. Takigawa, H. Harima, T. Arima, Z. Hiroi
- Poster " Development of an in-vacuum diffractometer for resonant soft X-ray scattering "
  - H. Nakao, Y. Yamasaki, J. Okamoto, T. Sudayama, Y. Takahashi, K. Kobayashi, R. Kumai, and Y. Murakami
- Poster " Soft X-ray diffractometer with a 7.5-T superconducting magnet "
  - J. Okamoto, H. Nakao, Y. Yamasaki, T. Sudayama, K. Kobayashi, Y. Takahashi, M. Kubota, R. Kumai, and Y. Murakami

- Poster " Self-absorption correction study for  $L$ -edge of  $3d$  transition metals "
 

T. Sudayama, Y. Takahashi, J. Okamoto, Y. Yamasaki, H. Nakao, Y. Murakami, S. Asai, N. Furuta, R. Okazaki, Y. Yasui, I. Terasaki
- Poster " Study on the molecular electronic states in charge transfer complex TTF-CA with ferroelectricity "
 

Y. Takahashi, H. Nakao, R. Kumai, S. Ishibashi, S. Horiuchi, M. Kohyama, K. Kobayashi, Y. Yamasaki, J. Okamoto, T. Sudayama, Y. Murakami, and Y. Tokura
- Poster " Characterization of the surface oxide layer on Fe-Co alloy thin films: Effect of alloy composition "
 

M. Sakamaki, K. Amemiya
- Poster " Thickness-dependent metal-insulator-transition in  $\text{PrNiO}_3$  films "
 

E. Sakai, K. Yoshimatsu, M. Tamamitsu, K. Horiba, A. Fujimori, M. Oshima, and H. Kumigashira
- Poster " Behavior of metallic quantum well states of  $\text{SrVO}_3$  ultrathin films near the thickness-dependent metal-insulator transition "
 

K. Yoshimatsu, E. Sakai, M. Kobayashi, K. Horiba, T. Yoshida, A. Fujimori, M. Oshima, and H. Kumigashira
- Poster " Materials Science at the KEK Slow Positron Facility "
 

K. Wada, I. Mochizuki, T. Hyodo, T. Kosuge, Y. Saito, K. Nigorikawa, T. Shidara, S. Ohsawa, M. Ikeda, A. Shirakawa, K. Furukawa, T. Sanami, K. Michishio, R. H. Suzuki, H. Terabe, S. Iida, Y. Nagashima, Y. Fukaya, M. Maekawa, A. Kawasuso, T. Tachibana, T. Hirayama, T. Shirasawa, T. Takahashi, and M. Fujinami
- Poster " Observation of atomic configuration of topmost surface layer with total reflection positron diffraction "
 

Y. Fukaya, M. Maekawa, I. Mochizuki, K. Wada, T. Hyodo, and A. Kasasuso
- Oral " Atomic configurations of Ge (001)-Pt and  $\text{TiO}_2$  (110) surfaces studied by high-brightness reflection high-energy positron diffraction "
 

I. Mochizuki, H. Ariga, Y. Fukaya, K. Wada, T. Hyodo, K. Asakura, M. Maekawa, and A. Kawasuso

#### International Workshop on Science and Patents (IWP)

September 5-6, 2013

Tsukuba, Japan

- Poster " Introduction to the Slow Positron Facility at KEK "
 

K. Wada, I. Mochizuki, T. Hyodo, T. Shidara, S. Ohsawa, M. Ikeda, K. Michishio, H. Terabe, S. Iida, Y. Nagashima, Y. Fukaya, M. Maekawa, A. Kawasuso, T. Tachibana
- Poster " Reflection High-Energy Positron Diffraction (RHEPD) and its Applications "
 

I. Mochizuki, H. Ariga, Y. Fukaya, K. Wada, T. Hyodo, K. Asakura, M. Maekawa, A. Kawasuso

#### 13th International Workshop on Slow Positron Beam Techniques and Applications (SLOPOS13)

September 15-20, 2013

Munich, Germany

- Poster " Atomic configuration of rutile- $\text{TiO}_2$  (110) surface studied by high-brightness reflection high-energy positron diffraction "
 

I. Mochizuki, H. Ariga, Y. Fukaya, K. Wada, T. Hyodo, K. Asakura, M. Maekawa, and A. Kawasuso
- Invited " Reflection high-energy positron diffraction study on topmost surface layers "
 

Y. Fukaya, M. Maekawa, I. Mochizuki, K. Wada, T. Hyodo, and A. Kasasuso
- Poster " Application of a linac-based slow-positron beam to Ps—, Ps-TOF, and RHEPD experiments "
 

K. Wada, I. Mochizuki, T. Hyodo, K. Michishio, H. Terabe, S. Iida, Y. Nagashima, Y. Fukaya, M. Maekawa, and A. Kawasuso

#### 2013 JSAP-MRS Joint Symposia

September 16-20, 2013

Doshisha University, Kyoto, Japan

- Invited " Photocarrier Injection to  $\text{VO}_2$  Thin Films "
 

Yuji Muraoka, Takanori Wakita and Takayoshi Yokoya
- Oral " Phase competitions in  $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3/\text{La}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$  superlattices studied by resonant soft x-ray diffraction "
 

Hiroki Wadati

#### Workshop on Oxide Electronics 20

September 22-25, 2013

National University of Singapore, Singapore

- Poster " Determination of the surface and interface phase shifts of standing waves in metallic quantum well structures composed of  $\text{SrVO}_3$  and  $\text{SrTiO}_3$  "
 

K. Yoshimatsu, E. Sakai, M. Kobayashi, K. Horiba, T. Yoshida, A. Fujimori, M. Oshima, and H. Kumigashira
- Poster " Interface-Dipole Formation at  $\text{LaNiO}_3/\text{SrTiO}_3$  Heterostructures "
 

Enju Sakai, Kohei Yoshimatsu, Masatomo Tamamitsu, Koji Horiba, Masaharu Oshima, and Hiroshi Kumigashira
- Poster " Origin of unusual mass enhancement of metallic quantum well subband in  $\text{SrVO}_3$  ultrathin films "
 

M. Kobayashi, K. Yoshimatsu, E. Sakai, M. Kitamura, K. Horiba, A. Fujimori, and H. Kumigashira
- Poster " Photoelectron Microscopic Observation in Resistance Switching of Ni Nanowire Resistance Random Access Memory "
 

Koji Horiba, Kohei Fujiwara, Naoka Nagamura, Satoshi Toyoda, Hiroshi Kumigashira Masaharu Oshima, and Hidenori Takagi

#### 12th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures (ACSIN-12)

November 4-8, 2013

Tsukuba, Japan



- Poster " Application of a linac-based intense slow-positron beam to diffraction experiments "
  - K. Wada, I. Mochizuki, T. Hyodo, T. Shidara, Y. Fukaya, M. Maekawa, A. Kawasuso, K. Michishio, H. Terabe, S. Iida, Y. Nagashima
- Oral " Total Reflection Positron Diffraction for Surface Structure Analysis "
  - T. Hyodo, Y. Fukaya, I. Mochizuki, M. Maekawa, K. Wada, A. Kawasuso
- Poster " Analysis of atomic configuration of rutile-TiO<sub>2</sub>(110) surface using high brightness reflection high-energy positron diffraction "
  - I. Mochizuki, H. Ariga, Y. Fukaya, K. Wada, T. Hyodo, K. Asakura, M. Maekawa, and A. Kawasuso

#### AsCA2013

November 7-10, 2013

HKUST, Hong Kong

- Poster " Neutron structural study in organic ferroelectric Phz-H<sub>2</sub>ca "
  - Akiko Nakao, Reiji Kumai, Sachio Horiuchi, Yoshinori Tokura, Takashi Ohhara, Takayasu Hanashima<sup>1</sup>, Koji Munakata, Ryoji Kiyonagi, Takuro Kawasaki, Kenichi Oikawa, Koji Kaneko, Itaru Mamura

#### FIRST-QS2C WS on "Emergent Phenomena of Correlated Materials"

November 13-16, 2013

Shinagawa, Japan

- Oral " Resonant soft x-ray scattering studies in SCE system "
  - Youichi Murakami
- Poster " Ferroelectric to antiferroelectric structural phase transition in [H-6,6'-dmbp][Hca] "
  - Kensuke Kobayashi
- Poster " Coexistence of multiple magnetic orderings in SrCo<sub>6</sub>O<sub>11</sub> revealed by resonant soft x-ray scattering "
  - Hiroki Wadati
- Poster " Artificial superlattice Mn thin film with large magneto-resistance studied by resonant soft x-ray scattering under magnetic field "
  - Takaaki Sudayama
- Poster " X-ray induced phase transition between multiferroic states in a perovskite manganite "
  - Yuichi Yamasaki

#### International Workshop on Novel Superconductors and Super Materials 2013

November 21-22, 2013

Shinagawa, Japan

- Poster " Observation of the Two Dimensional Fermi Surface Topology in electron-doped CaFe<sub>2</sub>As<sub>2</sub> superconductor with T<sub>c</sub> = 45 K "
  - M. Sunagawa, T. Jabuchi, J. Sonoyama, H. Fujiwara, K. Iba, K. Kudo, M. Nohara, T. Wakita, Y. Muraoka, T. Yokoya, K. Ono, H. Kumigashira, M. Arita, K. Shimada, H. Namatame, M. Taniguchi

#### 2nd Japan–China Joint Workshop on Positron Science (JWPS 2013)

December 20-23, 2013

Tsukuba, Japan

- Invited " Total reflection high-energy positron diffraction rocking-curve analysis for the topmost surface structure determination "
  - I. Mochizuki, K. Wada, T. Hyodo, T. Shidara, Y. Fukaya, M. Maekawa, A. Kawasuso, H. Ariga, K. Asakura
- Invited " Installation of a reflection high-energy positron diffraction (RHEPD) experiment station to the Slow Positron Facility at KEK "
  - K. Wada, M. Maekawa, Y. Fukaya, I. Mochizuki, T. Hyodo, T. Shidara, and A. Kawasuso