

Publications

< Paper >

- 1 “Enhanced Layered-Herringbone Packing due to Long Alkyl Chain Substitution in Solution-Processable Organic Semiconductors”,
H. Minemawari, M. Tanaka, S. Tsuzuki, S. Inoue, T. Yamada, R. Kumai, Y. Shimoi, and T. Hasegawa,
Chem. Mater., **29**, 1245-1254 (2017).
- 2 “Proton Tautomerism for Strong Polarization Switching”,
S. Horiuchi, K. Kobayashi, R. Kumai, and S. Ishibashi,
Nature Commun., **8**, 14426:1-9 (2017).
- 3 “Reduced exchange narrowing caused by gate-induced charge carriers in high-mobility donor-acceptor copolymers”,
J. Tsutsumi, S. Matsuoka, I. Osaka, R. Kumai, and T. Hasegawa,
Phys. Rev. B, **95**, 115306:1-7 (2017).
- 4 “Surface Electronic Structure of Proton-doped YSZ Thin Film by Soft-X-ray Photoemission Spectroscopy”,
Makoto Takayanagi, Takashi Tsuchiya, Makoto Minohara, Masaki Kobayashi, Koji Horiba, Hiroshi Kumigashira, and Tohru Higuchi,
Trans. Mat. Res. Soc. Japan **42**, 61-64 (2017).
- 5 “Structural and Electrical Properties of BaPrO_{3-δ} Thin Film with Oxygen Vacancies”,
Shoto Furuichi, Takashi Tsuchiya, Koji Horiba, Masaki Kobayashi, Makoto Minohara, Hiroshi Kumigashira, and Tohru Higuchi,
Trans. Mater. Res. Soc. Japan **42**, 15-18 (2017).
- 6 “Ce-substitution effects on the spin excitation spectra in Pr_{1.4-x}La_{0.6}Ce_xCuO_{4+δ}”,
S Asano, K Tsutsumi, K Sato and M Fujita,
J. Phys.: Conf. Ser. **807**, 052009:1-5 (2017).
- 7 “Ultrafast melting of spin density wave order in **BaFe₂As₂** observed by time- and angle-resolved photoemission spectroscopy with extreme-ultra-violet higher harmonic generation”,
H. Suzuki, K. Okazaki, T. Yamamoto, T. Someya, M. Okada, K. Koshiishi, M. Fujisawa, T. Kanai, N. Ishii, M. Nakajima, H. Eisaki, K. Ono, H. Kumigashira, J. Itatani, A. Fujimori, and S. Shin,
Phys. Rev. B **95**, 165112:1-6 (2017).
- 8 “Temperature dependence of Yb valence in the sub-surface of YbB₁₂(001)”,
Kenta Hagiwara, Yusuke Takeno, Yoshiyuki Ohtsubo, Ryu Yukawa, Masaki Kobayashi, Koji Horiba, Hiroshi Kumigashira, Julien Rault, Patrick Le Fèvre, and François Bertran,
J. Phys.: Conf. Ser. **807**, 012003:1-5 (2017).
- 9 “Amorphous gallium oxide as an improved host for inorganic light-emitting thin film semiconductor fabricated at room temperature on glass”,
Naoto Watanabe, Junghwan Kim, Keisuke Ide, Hidenori Hiramatsu, Hiroshi Kumigashira, Shigenori Ueda, Hideo Hosono, and Toshio Kamiya,
ECS Journal of Solid State Science and Technology **6**, 410-414 (2017).
- 10 “Orbital-Dependent Band Renormalization in BaNi₂(As_{1-x}P_x)₂ (x = 0.00 and 0.092)”,
T. Noda, K. Kudo, M. Takasuga, M. Nohara, T. Sugimoto, D. Ootsuki, M. Kobayashi, K. Horiba, K. Ono, H. Kumigashira, A. Fujimori, N. L. Saini, and T. Mizokawa,
J. Phys. Soc. Jpn. **86**, 064708:1-8 (2017).
- 11 “Coupled multiferroic domain switching in the canted conical spin spiral system Mn₂GeO₄”,
T. Honda, J. S. White, A. B. Harris, L. C. Chapon, A. Fennell, B. Roessli, O. Zaharko, Y. Murakami, M. Kenzelmann, and T. Kimura,
Nature Communications **8**, 15457 (2017).
- 12 “Electron Conduction of Nd_{0.6}Sr_{0.4}FeO_{3-d} Thin Film with Oxygen Vacancies Prepared by RF Magnetron Sputtering”,
Wataru Namiki, Takashi Tsuchiya, Makoto Takayanagi, Shoto Furuichi, Makoto Minohara,

- Masaki Kobayashi, Koji Horiba, Hiroshi Kumigashira, and Tohru Higuchi,
J. Phys. Soc. Jpn. **86**, 074704:1-5 (2017).
- 13 “Three superconducting phases with different categories of pairing in hole- and electron-doped **LaFeAs_{1-x}P_xO**”,
 S. Miyasaka, M. Uekubo, H. Tsuji, M. Nakajima, S. Tajima, T. Shiota, H. Mukuda, H. Sagayama, H. Nakao, R. Kumai, and Y. Murakami,
Phys. Rev. B **95**, 214515:1-8 (2017).
- 14 “Semimetallic bands derived from interlayer electrons in the quasi-two-dimensional electricle **Y₂C**”,
 Koji Horiba, Ryu Yukawa, Taichi Mitsushashi, Miho Kitamura, Takeshi Inoshita, Noriaki Hamada, Shigeki Otani, Naoki Ohashi, Sachiko Maki, Jun-ichi Yamaura, Hideo Hosono, Youichi Murakami, and Hiroshi Kumigashira,
Phys. Rev. B **96**, 045101:1-5 (2017).
- 15 “Three-dimensional band structure of LaSb and CeSb: Absence of band inversion”,
 H. Oinuma, S. Souma, D. Takane, T. Nakamura, K. Nakayama, T. Mitsushashi, K. Horiba, H. Kumigashira, M. Yoshida, A. Ochiai, T. Takahashi, and T. Sato,
Phy. Rev. B **96**, 041120R:1-5 (2017).
- 16 “Hole-Proton Mixed Conduction of Perovskite-Oxide Thin Film with Oxygen Vacancies and Lattice Distortion for SOFC Electrode”,
 Tohru Higuchi, Shoto Furuichi, Wataru Namiki, Makoto Takayanagi, Makoto Minohara, Koji Horiba, Hiroshi Kumigashira, and Takashi Tsuchiya,
ECS Trans. **78**, 1973-1977 (2017).
- 17 “Spin state of Co³⁺ in LaCo_{1-x}Rh_xO₃ studied by using X-ray absorption spectroscopy”,
 Takaaki Sudayama, Hironori Nakao, Yuichi Yamasaki, Youichi Murakami, Shinichiro Asai, Ryuji Okazaki, Yukio Yasui, and Ichiro Terasaki,
J. Phys. Soc. Jpn. **86**, 094701:1-6 (2017).
- 18 “Oxide Ion Conduction of BaCe_{0.80}Zr_{0.10}Y_{0.10}O_{3-δ} Thin Film with Oxygen Vacancies”,
 Masanori Ochi, Nobuaki Miyakawa, Makoto Minohara, Koji Horiba, Hiroshi Kumigashira, and Tohru Higuchi,
Trans. Mat. Res. Soc. Japan **42**, 97-100 (2017).
- 19 “Highly oriented epitaxial CaFe₂O₄ thin films on TiO₂ substrates grown by pulsed-laser deposition”,
 Nana Nishiyama, Hisanori Mashiko, Kohei Yoshimatsu, Koji Horiba, Hiroshi Kumigashira, and Akira Ohtomo,
Thin Solid Films **638**, 406-409 (2017).
- 20 “Electronic structures and photoanodic properties of ilmenite-type MTiO₃ epitaxial films (M = Mn, Fe, Co, Ni)”,
 K. Yoshimatsu, H. Mashiko, N. Umezawa, K. Horiba, H. Kumigashira, and A. Ohtomo,
J. Phys. Chem. C **121**, 18717-18724 (2017).
- 21 “Supermirror neutron guide system for Neutron Resonance Spin Echo spectrometers at a pulsed neutron source”,
 M. Hino, T. Oda, N. L. Yamada, H. Endo, H. Seto, M. Kitaguchi, M. Harada, and Y. Kawabata,
J. Nucl. Sci. Technol. **54**(11), 1223-1232 (2017).
- 22 “Development of precision elliptic neutron-focusing supermirror”,
 T. Hosobata, N. L. Yamada, M. Hino, Y. Yamagata, T. Kawai, H. Yoshinaga, K. Hori, M. Takeda, S. Takeda, and S. Morita,
Opt. Express **25**(17), 20012-20024 (2017).
- 23 “Structure and Mechanical Properties of Polybutadiene Thin Films Bound to Surface-Modified Carbon Interface”,
 K. Hori, N. L. Yamada, Y. Fujii, T. Masui, H. Kishimoto, and H. Seto,
Langmuir **33**(36), 8883-8890 (2017).
- 24 “Two-magnon scattering in the 5d all-in-all-out pyrochlore magnet Cd₂Os₂O₇”,
 Thi Minh Hien Nguyen, Luke J. Sandilands, C. H. Sohn, C. H. Kim, Aleksander L. Wysocki, In-Sang Yang, S. J. Moon, Jae-Hyeon Ko, J. Yam-

- aura, Z. Hiroi & Tae Won Noh, *Nature Commun.* **8**, 251:1-8 (2017).
- 25 “Quasiparticle interference on cubic perovskite oxide surfaces”, Yoshinori Okada, Shiue-Yuan Shiau, Tay-Rong Chang, Guoqing Chang, Masaki Kobayashi, Ryota Shimizu, Horng-Tay Jeng, Susumu Shiraki, Hiroshi Kumigashira, Arun Bansil, Hsin Lin, Taro Hitosugi, *Phys. Rev. Lett.* **119**, 086801:1-6 (2017).
- 26 “Dielectric collapse at the $\text{LaAlO}_3/\text{SrTiO}_3$ (001) heterointerface under applied electric field”, M. Minohara, Y. Hikita, C. Bell, H. Inoue, M. Hosoda, H. K. Sato, H. Kumigashira, M. Oshima, E. Ikenaga, and H. Y. Hwang, *Scientific Report* **7**, 9516:1-7 (2017).
- 27 “Thickness-dependent Surface Proton Conduction in (111) Oriented Yttria-stabilized Zirconia Thin Film”, M. Takayanagi, T. Tsuchiya, K. Kawamura, M. Minohara, K. Horiba, H. Kumigashira, and T. Higuchi, *Solid State Ionic* **311**, 46-51 (2017).
- 28 “Structure determination in thin film $\text{Ba}_{1-x}\text{La}_x\text{Fe}_2\text{As}_2$: Relation between the FeAs_4 geometry and superconductivity”, Kensuke Kobayashi, Akiko Nakao, Sachiko Maki, Jun-ichi Yamaura, Takayoshi Katase, Hikaru Sato, Hajime Sagayama, Reiji Kumai, Yoshio Kuramoto, Youichi Murakami, Hidenori Hiramatsu, and Hideo Hosono, *Phys. Rev. B* **96**, 125116:1-5 (2017).
- 29 “Antiferroquadrupolar Ordering in Quadrupolar Kondo Lattice of Non-Kramers System $\text{PrTa}_2\text{Al}_{20}$ ”, Ryuji Higashinaka, Akihiro Nakama, Ryoichi Miyazaki, Jun-ichi Yamaura, Hideyuki Sato, and Yuji Aoki, *J. Phys. Soc. Jpn.* **86**, 103703:1-5 (2017).
- 30 “Electronic structure and polar catastrophe at the surface of Li_xCoO_2 studied by angle-resolved photoemission spectroscopy”, Y. Okamoto, R. Matsumoto, T. Yagihara, C. Iwai, K. Miyoshi, J. Takeuchi, K. Horiba, M. Kobayashi, K. Ono, H. Kumigashira, N. L. Saini, and T. Mizokawa, *Phys. Rev. B* **96**, 125147:1-7 (2017).
- 31 “Crystallization and vitrification of electrons in a glass-forming charge liquid”, S. Sasaki, K. Hashimoto, R. Kobayashi, K. Itoh, S. Iguchi, Y. Nishio, Y. Ikemoto, T. Moriwaki, N. Yoneyama, M. Watanabe, A. Ueda, H. Mori, K. Kobayashi, R. Kumai, Y. Murakami, J. Müller, and T. Sasaki, *Science* **357**, 1381-1385 (2017).
- 32 “ARPES studies of the inverse perovskite Ca_3PbO : Experimental confirmation of a candidate 3D Dirac fermion system”, Yukiko Obata, Ryu Yukawa, Koji Horiba, Hiroshi Kumigashira, Yoshitake Toda, Satoru Matsuiishi, and Hideo Hosono, *Phys. Rev. B* **96**, 155109:1-6 (2017).
- 33 “Strong polarization switching with low-energy loss in hydrogen-bonded organic antiferroelectrics”, S. Horiuchi, R. Kumai and S. Ishibashi, *Chem. Sci.* **9**, 425-432 (2018).
- 34 “Tunneling and Origin of Large Access Resistance in Layered-Crystal Organic Transistors”, T. Hamai, S. Arai, H. Minemawari, S. Inoue, R. Kumai, T. Hasegawa, *Phys. Rev. Appl.* **8**, 054011:1-12 (2017).
- 35 “Local magnetic susceptibility, spin dynamics, and charge order in the quasi-one-dimensional conductor $\beta\text{-Li}_{0.33}\text{V}_2\text{O}_5$ investigated by site-selective ^{51}V NMR”, I. Yamauchi, M. Itoh, T. Yamauchi, J. Yamaura, and Y. Ueda, *Phys. Rev. B* **96**, 205114:1-13 (2017).
- 36 “Emergence and magnetic-field variation of chiral-soliton lattice and skyrmion lattice in the strained helimagnet Cu_2OSeO_3 ”,

- Y. Okamura, Y. Yamasaki, D. Morikawa, T. Honda, V. Ukleev, H. Nakao, Y. Murakami, K. Shibata, F. Kagawa, S. Seki, T. Arima, and Y. Tokura,
 Phys. Rev. B **96**, 174417:1-7 (2017).
- 37 “Spin dynamics in the high-field phases of volborthite”,
 M. Yoshida, K. Nawa, H. Ishikawa, M. Takigawa, M. Jeong, S. Krämer, M. Horvatić, C. Berthier, K. Matsui, T. Goto, S. Kimura, T. Sasaki, J. Yamaura, H. Yoshida, Y. Okamoto, and Z. Hiroi,
 Phys. Rev. B **96**, 180413(R):1-5 (2017).
- 38 “Emergence of Quantum Critical Behavior in Metallic Quantum-Well States of Strongly Correlated Oxides”,
 Masaki Kobayashi, Kohei Yoshimatsu, Taichi Mitsuhashi, Miho Kitamura, Enju Sakai, Ryu Yukawa, Makoto Minohara, Atsushi Fujimori, Koji Horiba, and Hiroshi Kumigashira,
 Scientific Report **7**, 16621:1-7 (2017).
- 39 “Evidence for magnetic Weyl fermions in a correlated metal”,
 K. Kuroda, T. Tomita, M.-T. Suzuki, C. Bareille, A. A. Nugroho, P. Goswami, M. Ochi, M. Ikhlas, M. Nakayama, S. Akebi, R. Noguchi, R. Ishii, N. Inami, K. Ono, H. Kumigashira, A. Varykhalov, T. Muro, T. Koretsune, R. Arita, S. Shin, Takeshi Kondo, and S. Nakatsuji,
 Nat. Mater. **16**, 1090-1095 (2017).
- 40 “Direct observation of double valence-band extrema and anisotropic effective masses of the thermoelectric material SnSe”,
 Takano Nagayama, Kensei Terashima, Takano-ri Wakita, Hirokazu Fujiwara, Tetsushi Fukura, Yuko Yano, Kanta Ono, Hiroshi Kumigashira, Osamu Ogiso, Aichi Yamashita, Yoshihiko Takano, Hitoshi Mori, Hidetomo Usui, Masayuki Ochi, Kazuhiko Kuroki, Yuji Muraoka, and Takayoshi Yokoya,
 Jpn. J. Appl. Phys. **57**, 010301:1-4 (2018).
- 41 “Superconductivity-Insensitive Order at $q \sim 1/4$ in Electron-Doped Cuprates”,
 H. Jang, S. Asano, M. Fujita, M. Hashimoto, D. H. Lu, C. A. Burns, C.-C. Kao, and J.-S. Lee,
 Phys. Rev. X **7**, 041066:1-6 (2017).
- 42 “Electron-Ion Mixed Conduction of $\text{Nd}_{0.6}\text{Sr}_{0.4}\text{FeO}_3$ Cathode Electrode Thin Film for Solid Oxide Fuel Cell”,
 Wataru Namiki, Makoto Takayanagi, Shoto Furuichi, Takashi Tsuchiya, Makoto Minohara, Masaki Kobayashi, Koji Horiba, Hiroshi Kumigashira, and Tohru Higuchi,
 ECS Trans. **75**, 83-88 (2017).
- 43 “Ion Conduction of $\text{BaPrO}_{3-\delta}$ Thin Film with Mixed Valence State for SOFC Anode Electrode”,
 Shoto Furuichi, Takashi Tsuchiya, Makoto Minohara, Masaki Kobayashi, Koji Horiba, Hiroshi Kumigashira, and Tohru Higuchi,
 ECS Trans. **75**, 99-103 (2017).
- 44 “Proton Conduction on YSZ Electrolyte Thin Films Prepared by RF Magnetron Sputtering”,
 Makoto Takayanagi, Shoto Furuichi, Wataru Namiki, Takashi Tsuchiya, Makoto Minohara, Masaki Kobayashi, Koji Horiba, Hiroshi Kumigashira, and Tohru Higuchi,
 ECS Trans. **75**, 115-120 (2017).
- 45 “Pyrochlore oxide superconductor $\text{Cd}_2\text{Re}_2\text{O}_7$ revisited”,
 Z. Hiroi, J. Yamaura, T. C. Kobayashi, Y. Matsubayashi, and D. Hirai,
 J. Phys. Soc. Jpn. **87**, 024702:1-13 (2018).
- 46 “Observation of Dirac-like energy band and ring-torus Fermi surface associated with the nodal line in topological insulator CaAgAs ”,
 D. Takane, K. Nakayama, S. Souma, T. Wada, Y. Okamoto, K. Takenaka, Y. Yamakawa, A. Yamakage, T. Mitsuhashi, K. Horiba, H. Kumigashira, T. Takahashi, and T. Sato,
 Quantum Materials **3**, 1:1-6 (2018).
- 47 “Observation of a Pseudogap in the Vicinity of the Metal-Insulator Transition in the Perovskite-type Vanadium Oxides $\text{Nd}_{1-x}\text{Sr}_x\text{VO}_3$ ”,
 Shintaro Yamamoto, Daiki Ootsuki, Daiya Shimonaka, Daisuke Shibata, Kenjiro Kodera, Mario

- Okawa, Tomohiko Saitoh, Masafumi Horio, Atsushi Fujimori, Hiroshi Kumigashira, Kanta Ono, Eiji Ikenaga, Shigeki Miyasaka, Setsuko Tajima, and Teppei Yoshida,
J. Phys. Soc. Jpn. **87**, 024708:1-5(2018).
- 48 “Anisotropic spin-density distribution and magnetic anisotropy of strained thin films: Angle-dependent x-ray magnetic circular dichroism”, G. Shibata, M. Kitamura, M. Minohara, K. Yoshimatsu, T. Kadono, K. Ishigami, T. Harano, Y. Takahashi, S. Sakamoto, Y. Nonaka, K. Ikeda, Z. Chi, M. Furuse, S. Fuchino, M. Okano, J.-i. Fujihira, A. Uchida, K. Watanabe, H. Fujihira, S. Fujihira, A. Tanaka, H. Kumigashira, T. Koide, and A. Fujimori,
Quantum Materials **3**, 3:1-6 (2018).
- 49 “Cluster-Based Haldane State in an Edge-Shared Tetrahedral Spin-Cluster Chain: Fedotovite $\mathbf{K}_2\text{Cu}_3\text{O}(\text{SO}_4)_3$ ”, M. Fujihala, T. Sugimoto, T. Tohyama, S. Mitsu- da, R. A. Mole, D. H. Yu, S. Yano, Y. Inagaki, H. Morodomi, T. Kawae, H. Sagayama, R. Kumai, Y. Murakami, K. Tomiyasu, A. Matsuo, and K. Kindo,
Phys. Rev. Lett. **120**, 077201:1-5 (2018).
- 50 “Thickness dependence and dimensionality effects of charge and magnetic orderings in $\text{La}_{1/3}\text{Sr}_{2/3}\text{FeO}_3$ thin films”, K. Yamamoto, Y. Hirata, M. Horio, Y. Yokoyama, K. Takubo, M. Minohara, H. Kumigashira, Y. Yamasaki, H. Nakao, Y. Murakami, A. Fujimori, and H. Wadati,
Phys. Rev. B **97**, 075134:1-6 (2018).
- 51 “Field-Induced Antipolar–Polar Structural Transformation and Giant Electrostriction in Organic Crystal”, Kensuke Kobayashi, Sachio Horiuchi, Shoji Ishi- bashi, Youichi Murakami, and Reiji Kumai,
J. Am. Chem. Soc. **140** (11), 3842–3845 (2018).
- 52 “Peculiar bonding associated with atomic doping and hidden honeycombs in borophene”, Chi-Cheng Lee, Baojie Feng, Marie D’angelo, Ryu Yukawa, Ro-Ya Liu, Takahiro Kondo, Hi- roshi Kumigashira, Iwao Matsuda, and Taisuke Ozaki,
Phys. Rev. B **97**, 075430:1-5 (2018).
- 53 “Ferromagnetism with strong magnetocrystal- line anisotropy in A-site ordered perovskite YBaCo_2O_6 epitaxial thin film prepared via wet- chemical topotactic oxidation”, Tsukasa Katayama, Akira Chikamatsu, Yasushi Hirose, Makoto Minohara, Hiroshi Kumigashira, Isao Harayama, Daiichiro Sekibad, and Tetsuya Hasegawaa,
J. Mater. Chem. C **6**, 3445-3450 (2018).
- 54 “ μSR study of magnetism in the as-prepared and non-superconducting $\text{T}^*\text{-La}_{0.9}\text{Eu}_{0.9}\text{Sr}_{0.2}\text{CuO}_4$ ”, M. Fujita, K. M. Suzuki, S. Asano, A. Koda, H. Okabe, and R. Kadono,
JPS Conference Proceedings **21**, 011026:1-6 (2018).
- 55 “Unexpected metal-insulator transition in thick $\text{Ca}_{1-x}\text{Sr}_x\text{VO}_3$ film on $\text{SrTiO}_3(100)$ single crystal”, Makoto Takayanagi, Takashi Tsuchiya, Wataru Namiki, Shigenori Ueda, Makoto Minohara, Koji Horiba, Hiroshi Kumigashira, Kazuya Terabe, and Tohru Higuchi,
Appl. Phys. Lett. **112**, 133106:1-5 (2018).
- < Conference >
- Superstripes 2017 Quantum in Complex Matter: Superconductivity, Magnetism & Ferroelectricity
 June 5-10, 2017
 Ischia, Italy
- Invited “Neutron-Scattering Study of Mag- netic Excitations in Electron-Doped Cuprate”
 M. Fujita
- Collaborative Conference on Materials Research (CCMR) 2017
 June 24-30, 2017
 Jeju island, South Korea
- Invited “Synchrotron radiation ARPES study of emerging materials”
 K. Horiba
- The 14th International Conference on Muon Spin

Rotation, Relaxation and Resonance (μ SR2017)

June 25-30, 2017

Hokkaido University, Japan

- Poster “Origin of electric conductivity induced by H⁺ irradiation to cement C12A7”
M. Hiraishi, K. M. Kojima, M. Miyazaki, I. Yamauchi, H. Okabe, S. Takeshita, A. Koda, R. Kadono, S. Matsuishi, H. Hosono
- Poster “Magnetic ground state of the second magnetic phase under pressure in LaFeAsO_{1-x}H_x probed by muon spin rotation”
M. Hiraishi, K. M. Kojima, H. Okabe, S. Takeshita, A. Koda, R. Kadono, S. Iimura, S. Matsuishi, H. Hosono
- Oral “Electronic structure of interstitial hydrogen in transparent semiconductor In-Ga-Zn-O as probed by muon spectroscopy”
K. M. Kojima, M. Hiraishi, H. Okabe, A. Koda, R. Kadono, K. Ide, S. Matsuishi, T. Kamiya, H. Kumomi, H. Hosono
- Poster “ μ SR study of magnetism in the as-sintered and non-superconducting T*-La_{0.9}Eu_{0.9}Sr_{0.2}CuO₄”
Masaki Fujita, Kensuke M. Suzuki, Shun Asano, Akihiro Koda, Hirotaka Okabe, and Ryosuke Kadono
- Oral “Observation of novel relaxation process in polybutadiene probed by muon spin relaxation”
Soshi Takeshita, Hirotaka Okabe, Akihiro Koda, Kenji Kojima, Ichihiko Yamauchi, Masanori Miyazaki, Ryosuke Kadono, Hideki Seto, Tomomi Masui, Noboru Wakabayashi
- Poster “Relation between conducting property and molecular dynamics in a conducting polymer poly(3-hexylthiophene)”
Soshi Takeshita, Hirotaka Okabe, Akihiro Koda, Kenji Kojima, Ryosuke Kadono, Koichiro Hori, Hideki Seto, Yudai Ogata, Daisuke Kawaguchi, Kenji Tanaka

4th Course of the Erice School: Neutron Science and Instrumentation

July 1-8, 2017

Sicily, Italy

- Oral “Robustness of TOF-MIEZE (+ Present Status of VIN ROSE)”
T. Oda, M. Hino, H. Endo, N. L. Yamada, Y.

Kawabata, H. Seto

International workshop on strong correlations and angle-resolved photoemission spectroscopy(CORPES17)

July 2-7, 2017

JMS Aster Plaza, Hiroshima, Japan

- Poster “Non-Fermi liquid behavior in the Vicinity of Metal to Insulator Transition in Nd_{1-x}Sr_xVO₃ probed by Photoemission Spectroscopy”
D. Ootsuki, S. Yamamoto, D. Shimonaka, D. Shibata, K. Kodera, M. Okawa, T. Saitoh, M. Horio, A. Fujimori, H. Kumigashira, K. Ono, E. Ikenaga, S. Miyasaka, S. Tajima, and T. Yoshida

International Conference on Neutron Scattering 2017

July 9-13, 2017

Daejeon, Korea

- Poster “Structural analysis on surfactant layer at the interface of liquid crystal and substrate using neutron reflectometry”
Fumiya Nemoto, Norifumi L. Yamada, Masahiro Hino, and Hideki Seto
- Oral “Structure and Mechanical Properties of Polybutadiene Thin Films at Surface-modified Carbon Interface”
K. Hori, N. L. Yamada, T. Masui, H. Kishimoto, Y. Fujii, H. Seto

12th International Conference on the Structure of surfaces Georgia Institute of Technology

July 23-28, 2017

Georgia Institute of Technology, USA

- Poster “Structure analysis of LaNiO₃ ultra-thinfilms on LaAlO₃ (001) substrates”
Yusuke Wakabayashi, Masato Anada, Kazuhiro Kowa, Tsuyoshi Kimura, Enju Sakai, Miho Kitamura, Hiroshi Kumigashira, Yoshinori Nakaniishi-Ohno, and Masato Okada

ICDS2017

July 31-August 4, 2017

Kunibiki Messe, Shimane, Japan

- Poster “Origin of electric conductivity induced by H⁺ irradiation to cement C12A7”
M. Hiraishi, K. M. Kojima, M. Miyazaki, I.

Yamauchi, H. Okabe, S. Takeshita, A. Koda, R. Kadono, S. Matsuishi, H. Hosono

- Oral “Electronic structure of interstitial hydrogen in transparent semiconductor In-Ga-Zn-O as probed by muon spectroscopy”

K. M. Kojima, M. Hiraishi, H. Okabe, A. Koda, R. Kadono, K. Ide, S. Matsuishi, T. Kamiya, H. Kumomi, H. Hosono

The Tenth International Conference on the Science and Technology for Advanced Ceramics (STAC-10)

August 1-3, 2017

Mielparque-Yokohama, Kanagawa, Japan

- Poster “Epitaxial Growth and Physical Properties of La₂CrMnO₆ Double-Perovskite Films”

J. Ishimaru, K. Yoshimatsu, K. Horiba, H. Kumigashira and A. Ohtomo

The 28th International Conference on Low Temperature Physics

August 9-16, 2017

Gothenburg, Sweden

- Poster “Reduction annealing effects on Cu K-edge XAFS in electron-doped cuprate superconductors”

S. Asano, K. M. Suzuki, D. Matsumura, K. Ishii, T. Ina, and M. Fujita

IUMRS ICAM 2017 -The 15th International Conference on Advanced Materials

August 28-September 1, 2017

Kyoto University, Japan

- Invited “Origin of interfacial ferromagnetism between perovskite oxides LaNiO₃ and LaMnO₃”

M. Kitamura, K. Horiba, M. Kobayashi, E. Sakai, M. Minohara, R. Yukawa, T. Mitsuhashi, D. Shiga, K. Amemiya, T. Nagai, Y. Nonaka, G. Shibata, A. Fujimori, H. Fujioka, and H. Kumigashira

- Poster “Magnetic anisotropy and anisotropic spin-density distribution in strained La_{1-x}Sr_xMnO₃ thin films revealed by angle-dependent XMCD”

G. Shibata, M. Kitamura, M. Minohara, K. Yoshimatsu, T. Kadono, K. Ishigami, T. Harano, Y. Takahashi, S. Sakamoto, Y. Nonaka, K. Ikeda,

Z. Chi, M. Furuse, S. Fuchino, M. Okano, J.-i. Fujihira, A. Uchida, K. Watanabe, H. Fujihira, S. Fujihira, H. Kumigashira, T. Koide, and A. Fujimori

12th International Workshop on Positron and Positronium Chemistry Lublin

August 28-September 1, 2017

Lublin, Poland

- Oral “Structure determination of TiO₂ crystal surfaces using total-reflection high-energy positron diffraction (TRHEPD)”

I. Mochizuki, Y. Fukaya, H. Ariga, R. Yukawa, K. Wada, M. Minohara, H. Kumigashira, K. Asakura, A. Ichimiya, and T. Hyodo

2nd International Workshop on Gallium Oxide and Related Materials (IWGO 2017)

September 12-15, 2017

Parma, Italy

- Poster “Growth of β-Ga₂O₃-based heterostructures by pulsed-laser deposition”

R. Wakabayashi, M. Hattori, K. Yoshimatsu, T. Oshima, K. Sasaki, T. Masui, A. Kuramata, S. Yamakoshi, K. Horiba, H. Kumigashira, A. Ohtomo

European Materials Research Society (E-MRS)

September 18-21, 2017

Warsaw Univ. of Technology, Warsaw, Poland

- Invited “Breakdown of Fermi Liquid Behavior in the 2D Limit of Metallic Quantum Well States of Strongly Correlated Oxides”

Hiroshi KUMIGASHIRA

International Workshop on Oxide Electronics (iWOE-24)

September 24-27, 2017

Chicago, Illinois, USA

- Oral “Growth of antiperovskite-type oxide Ca₃SnO thin films by pulsed laser deposition”

M. Minohara, R. Yukawa, M. Kitamura, R. Kumai, Y. Murakami, and H. Kumigashira

- Poster “Two-dimensional electron liquid states at the K-adsorbed anatase-TiO₂ (001) surface”

R. Yukawa, M. Minohara, D. Shiga, M. Kitahara,

T. Mihashi, M. Kobayashi, K. Horiba, H. Kumigashira

- Poster “Control of the metal-insulator transition in VO₂ thin films by K deposition”
Daisuke Shiga, M. Minohara, M. Kitamura, R. Yukawa, T. Mitsuhashi, K. Horiba, and H. Kumigashira

J-Physics 2017: International Workshop on Multipole Physics and Related Phenomena

September 24-28, 2017

Hachimantai Royal Hotel, Iwate

- Invited “Noncentrosymmetric parent phase in iron-based superconductor”
Jun-ichi Yamaura

2nd International Conference on Applied Crystallography

October 16-18, 2017

Chicago, USA

- Invited “Structural response to pressure in 1111-type iron-based superconductor LaFeAsO_{1-x}H_x”
Kensuke Kobayashi

The 7th Annual World Congress of Nano Science and Technology-2017

Fukuoka, Japan

Warsaw Univ. of Technology, Warsaw, Poland

- Invited “In Situ Synchrotron ARPES Study on Manganite Thin Films”
K. Horiba

The 9th APCTP Workshop on Multiferroics

November 9-11, 2017

Chiba, Japan

- Oral “The magnetoelectric effect in bismuth ferrite around room temperature”
Shiro Kawachi