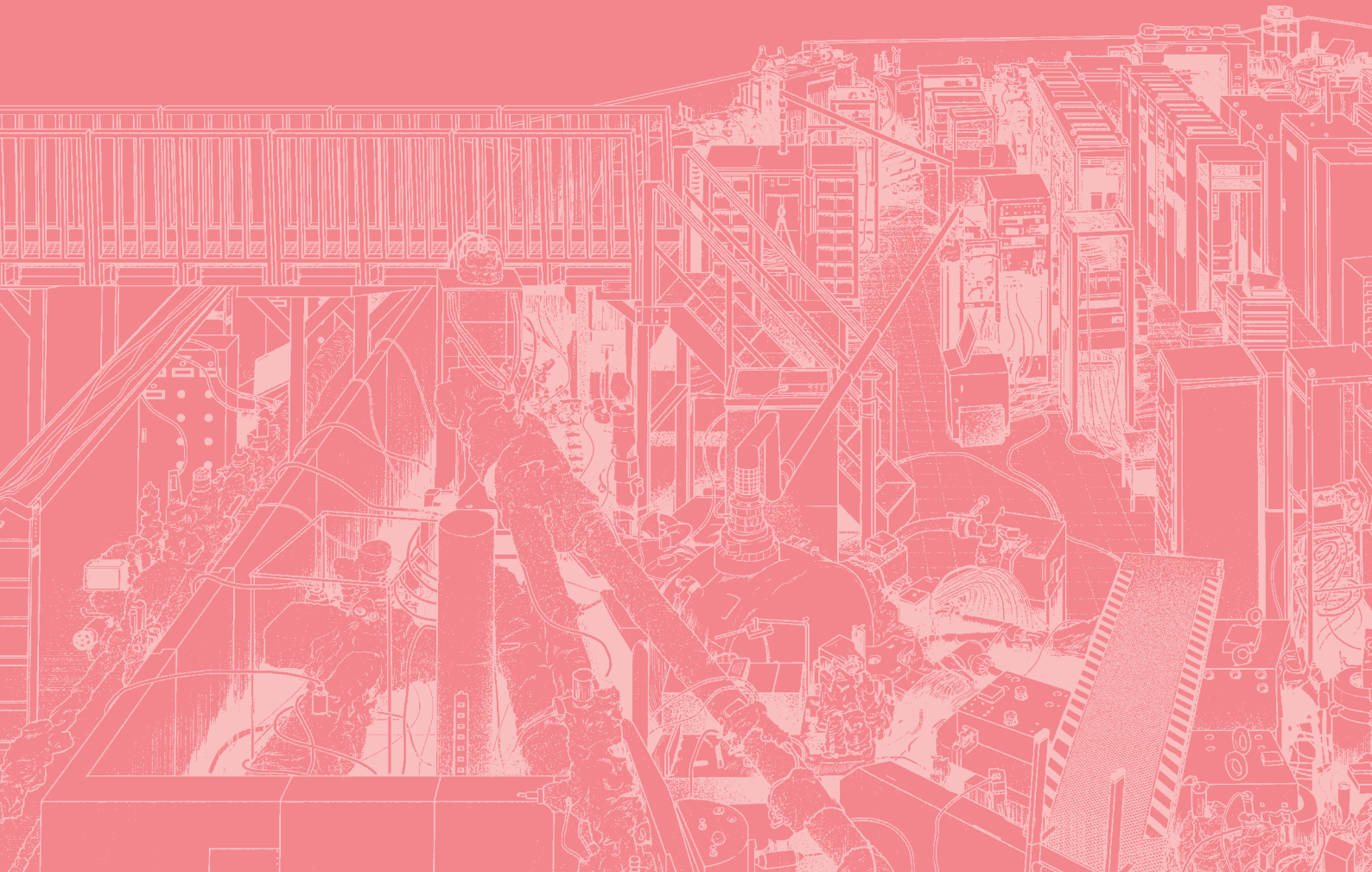


# IV

## List of Publications





## List of Publications (2023)

U. Alexiev and E. Rühl

**“Visualization of Nanocarriers and Drugs in Cells and Tissue”**, Handbook of Experimental Pharmacology

K. Ali, H. Zen, H. Ohgaki, T. Kii, T. Hayakawa, T. Shizuma, M. Katoh, Y. Taira, M. Fujimoto and H. Toyokawa

**“Fusion Visualization Technique to Improve a Three-Dimensional Isotope-Selective CT Image Based on Nuclear Resonance Fluorescence with a Gamma-CT Image”**, Appl. Sci. **11** (2021) 11866.

O. Endo, F. Matsui, S. Kera, W.-J. Chun, M. Nakamura, K. Amemiya and H. Ozaki

**“Hole Doping to Perylene on Au(110): Photoelectron Momentum Microscopy”**, e-J. Surf. Sci. Nanotechnol. **21** (2023) 236.

G. Germer, T. Ohigashi, H. Yuzawa, N. Kosugi, R. Flesch, F. Rancan and A. Vogt, E. Rühl

**“Soft X-Ray Scanning Transmission Microscopy as a Selective Probe of Topical Dermal Drug Delivery: The Role of Petrolatum and Occlusion”**, J. Electron Spectrosc. Relat. Phenom. **266** (2023) 147343.

Y. Hikosaka, T. Kaneyasu, S. Wada, H. Kohguchi, H. Ota, E. Nakamura, H. Iwayama, M. Fujimoto, M. Hosaka and M. Katoh

**“Frequency-domain interferometry for the determination of time delay between two extreme-ultraviolet wave packets generated by a tandem undulator”**, Sci. Rep. **13** (2023) 10292.

Y. Hikosaka

**“Metastability and fragmentation of the OCS<sup>3+</sup> states produced by S 2p double Auger decay”**, J. Chem. Phys. **158** (2023) 214306.

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**“Dissociation Following the Auger Decay of Xenon Difluoride Molecules Produced by S 2p Double Auger Decay”**, J. Chem. Phys. **160** (2024) 024304.

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C. Hong, Z. Song, B. Lin, P. Ran, X. Xie, C. Jiang and R.-H. He

**“Effect of Surface Reconstruction of SrTiO<sub>3</sub> (001) on the FeSe Thin Film Growth”**, J. Phys. Chem. Solids **184** (2024) 111717.

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**“Controlling Surface Reconstruction of SrTiO<sub>3</sub> (100) with Adhesive Outgassing”**, J. Phys. Chem. Solids **184** (2024) 111716.

Y.-C. Huang, Y. Li, K. T. Arul, T. Ohigashi, T. T. T. Nga, Y.-R. Lu, C.-L. Chen, J.-L. Chen, S. Shen, W.-F. Pong, C.-L. Dong and W.-C. Chou

**“Atomic Nickel on Graphitic Carbon Nitride as a Visible Light-Driven Hydrogen Production Photocatalyst Studied by X-ray Spectromicroscopy”**, ACS Sustainable Chem.Eng. **11** (2023) 5390.

S. Ibuki and T. Kawai

**“Excitonic feature in CsAg<sub>2</sub>I<sub>3</sub> crystals prepared by Bridgman method”**, Jpn. J. Appl. Phys. **63** (2024) 035504.

T. Kaneyasu, Y. Hikosaka, S. Wada, M. Fujimoto, H. Ota, H. Iwayama and M. Katoh  
“**Time Domain Double Slit Interference of Electron Produced by XUV Synchrotron Radiation**”, *Sci. Rep.* **13** (2023) 6142.

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“**Scintillation Properties of Non-doped and Ce-doped LiAl<sub>5</sub>O<sub>8</sub> Single Crystals**”, *Nucl. Instrum. Methods Phys. Res. B* **546** (2024) 165168.

M. Katoh, H. Ota, J. Yamazaki, K. Hayashi, Y. Okano, E. Salehi, Y. Taira, A. Mano, M. Fujimoto, Y. Takashima, M. Hosaka, F. Sakamoto, T. Kaneyasu and H. Zen  
“**Light Source Developments at UVSOR BL1U**”, *J. Phys.: Conf. Ser.* **2687** (2024) 032005.

T. Kawai, A. Iguchi and K. Yuasa  
“**Relaxation Processes among Adiabatic Potential Energy Surfaces of Tl<sup>+</sup> and Au<sup>-</sup> Centers in NaCl Crystals**”, *J. Lumin.* **266** (2024) 120330.

S. Kera, F. Matsui, K. Tanaka, Y. Taira, T. Araki, T. Ohigashi, H. Iwayama, M. Fujimoto, H. Matsuda, E. Salehi and M. Katoh  
“**Prospects required for future light-source facilities: a case of UVSOR synchrotron facility**”, *Electron. Struct.* **5** (2023) 034001.

S. Kimura, H. Watanabe, S. Tatsukawa, T. Nakamura, K. Imura, H. S. Suzuki and N. K. Sato  
“**Current-Induced Metallization and Valence Transition in Black SmS**”, *J. Phys. Soc. Jpn.* **93** (2024) 013701.

T. Mansikkala, T. Ohigashi, M. H. Salo, A. E. Hiltunen, R. Vuolteenaho, P. Sipil, S. Kuure, M. Huttula, J. Uusimaa, R. Hinttala, I. Miinalainen, S. Kangas and M. Patanen  
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C. O. M. Mariano, J. S. D. Rodriguez, R. H. Clemente, T. Ohigashi, H. Yuzawa, W-H. Hsu, J. Shiue and C-H. Chuang  
“**Scanning transmission X-ray microscopy of hydrogen evolution electrocatalysts on reduction graphene oxide membranes**”, *J. Electron Spectrosc. Relat. Phenom.* **265** (2023) 147332.

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“**Multiple-site Ag doping in Bi<sub>2</sub>Se<sub>3</sub>: Compositional crossover from substitution to intercalation as revealed by photoelectron diffraction and X-ray fluorescence holography**”, *J. Electron Spectrosc. Relat. Phenom.* **264** (2023) 147295.

F. Matsui, K. Hagiwara, E. Nakamura, T. Yano, H. Matsuda, Y. Okano, S. Kera, E. Hashimoto, S. Koh, K. Ueno, T. Kobayashi, E. Iwamoto, K. Sakamoto, S. Tanaka and S. Suga  
“**Soft x-ray photoelectron momentum microscope for multimodal valence band stereography**”, *Rev. Sci. Instrum.* **94** (2023) 083701.

L. Museur, E. Feldbach, A. Kotlov, M. Kitaura and A. Kanaev  
“**Donor-acceptor pair transitions in MgAl<sub>2</sub>O<sub>4</sub> spinel**”, *J. Lumin.* **265** (2024) 120235.

T. Nakamura, H. Sugihara, Y. Chen, R. Yukawa, Y. Ohtsubo, K. Tanaka, M. Kitamura, H. Kumigashira and S. Kimura  
“**Two-dimensional heavy fermion in monoatomic-layer Kondo lattice YbCu<sub>2</sub>**”, *Nat. Commun.* **14** (2023) 7850.

R. Nakazawa, A. Matsuzaki, K. Shimizu, I. Nakamura, E. Kawashima, S. Makita, K. Tanaka, S. Yasuno, H. Sato, H. Yoshida, M. A. Jalebi, S. D. Stranks, S. Tadano, K. Peter, Y. Tanaka, H. Tokairin and H. Ishii  
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T. Nishio, H. Murata, Y. Tokudome and A. Nakahira

**“Synthesis and characterization of  $Ti_{1-2x}(FeNb)_xO_2$  solid solutions for visible-light-active photocatalyst**”, J. Ceram. Soc. Jpn. **131** (2023) 712.

H. Ohgaki, K. Ali, T. Kii, H. Zen, T. Hayakawa, T. Shizuma, M. Fujimoto and Y. Taira

**“Generation of Flat-laser Compton Scattering Gamma-ray Beam in UVSOR**”, Phys. Rev. Accel. Beams **26** (2023) 093402.

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**“Developments in sample environment for a scanning transmission X-ray microscope at UVSOR-III synchrotron**”, J. Electron Spectrosc. Relat. Phenom. **266** (2023) 147356.

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**“Bayesian optimization of the dynamic aperture in UVSOR-IV design study**”, J. Phys.: Conf. Ser. **2687** (2024) 032030.

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**“Realizing Metallicity in  $Sr_2IrO_4$  Thin Films by High-Pressure Oxygen Annealing**”, NPG Asia Mater. **15** (2023) 43.

Y. Taira, S. Endo, S. Kawamura, T. Nambu, M. Okuizumi, T. Shizuma, M. Omer, H. Zen, Y. Okano, and M. Kitaguchi

**“Measurement of the spatial polarization distribution of circularly polarized gamma rays produced by inverse Compton scattering**”, Phys. Rev. A **107** (2023) 063503.

Y. Takebuchi, M. Koshimizu, K. Ichiba, T. Kato, D. Nakauchi, N. Kawaguchi and T. Yanagida

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T. Uchiyama, H. Goto, E. Uesugi, A. Takai, L. Zhi, A. Miura, S. Hamao, R. Eguchi, H. Ota, K. Sugimoto, A. Fujiwara, F. Matsui, K. Kimura, K. Hayashi, T. Ueno, K. Kobayashi, J. Akimitsu and Y. Kubozono

**“Semiconductor–metal transition in  $Bi_2Se_3$  caused by impurity doping**”, Sci. Rep. **13** (2023) 537.

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**“Young’s double-slit experiment with undulator vortex radiation in the photon-counting regime**”, Sci. Rep. **13** (2023) 22962.

W. Wen, C. Hua, B. Liu, C. Hong, G. Zhao, Z. Song, Y. Lu, Z. Ren and R.-H. He  
“**Angle-Resolved Photoemission Spectroscopy Study of the Electronic Structure Evolution in  $\text{Sn}_4\text{X}_3$  ( $\text{X} = \text{P}, \text{As}, \text{Sb}$ )**”, *Appl. Surf. Sci.* **569** (2021) 150980.

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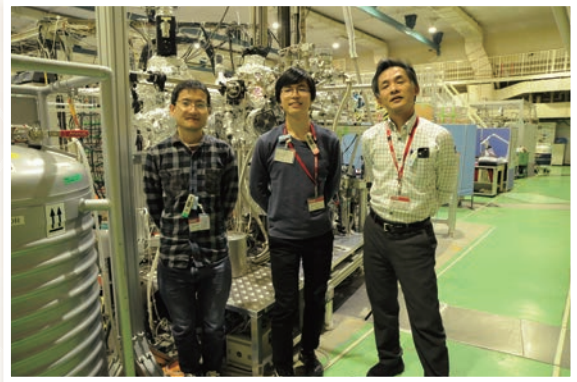
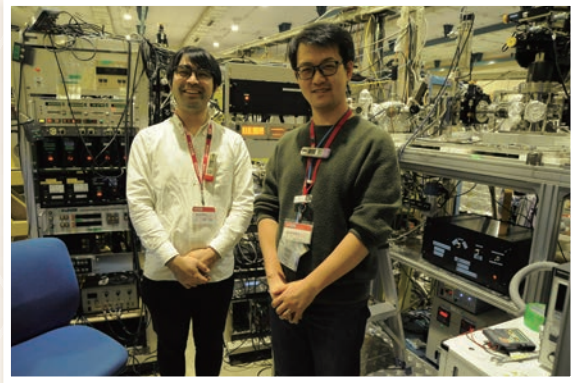
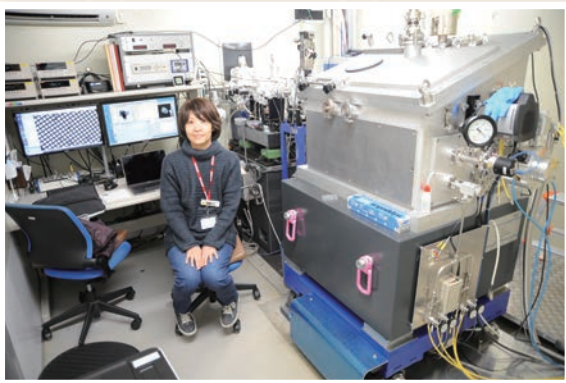
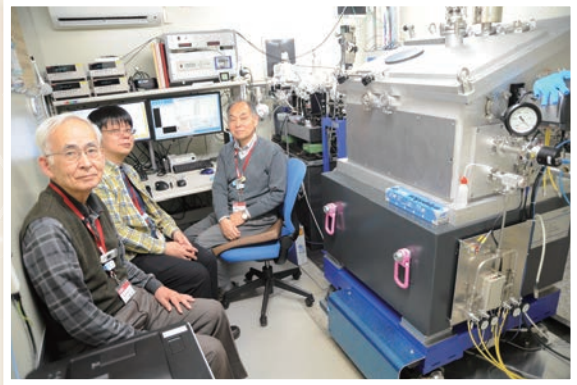
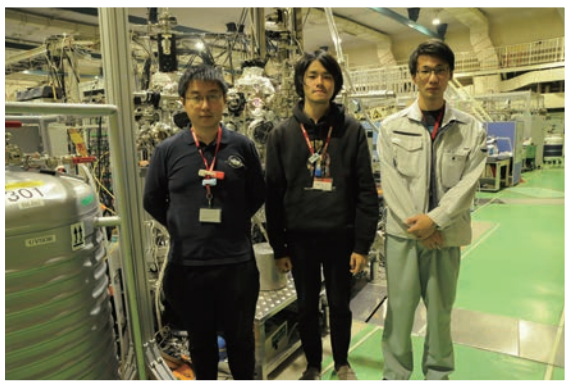
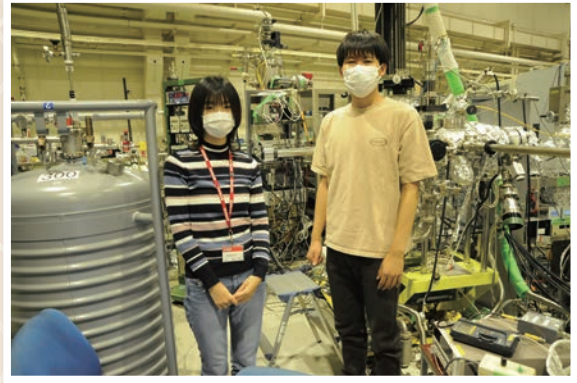
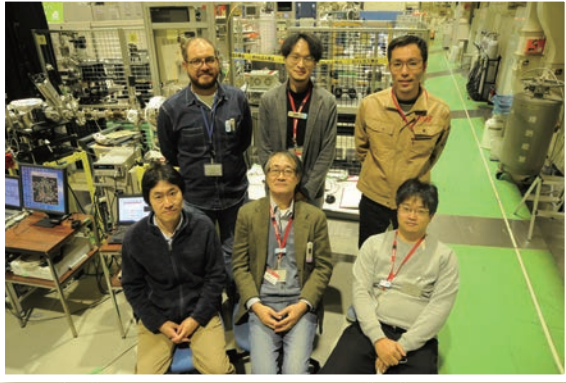
S. Yamamoto, H. Murata, T. Wakihara and A. Nakahira  
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# UVSOR User 9



# UVSOR User 10

