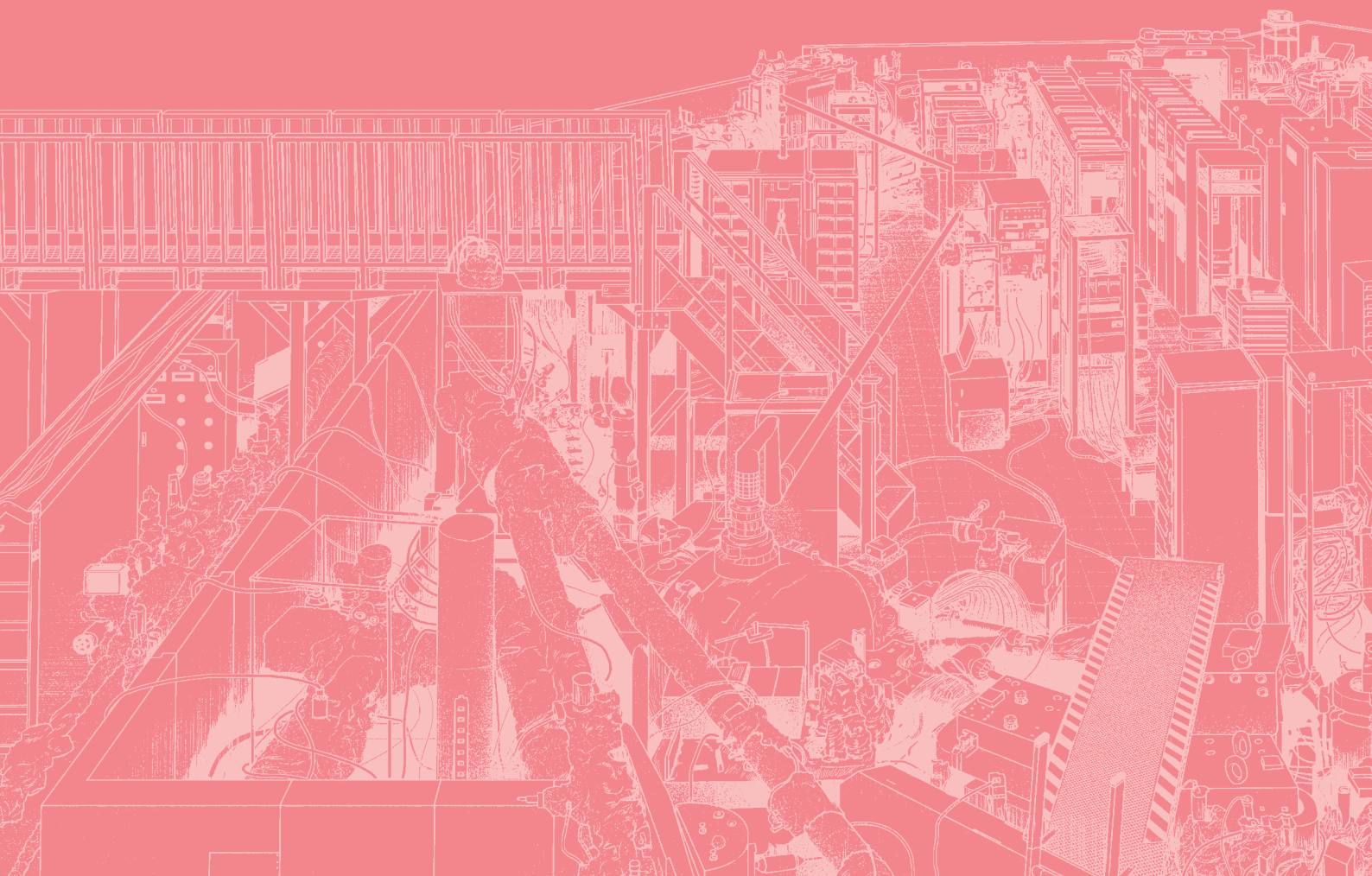


IV

List of Publications





List of Publications (2024)

H. Daimon, T. Matsushita, F. Matsui, K. Hayashi and Y. Wakabayashi

“Recent advances in atomic resolution three-dimensional holography”, Adv. Phys.:X **9** (2024) 2350161.

S. Endo, R. Abe, H. Fujioka, T. Ino, O. Iwamoto, N. Iwamoto, S. Kawamura, A. Kimura, M. Kitaguchi, R. Kobayashi, S. Nakamura, T. Oku, T. Okudaira, M. Okuizumi, M. Omer, G. Rovira, T. Shima, H. M. Shimizu, T. Shizuma, Y. Taira, S. Takada, S. Takahashi, H. Yoshikawa, T. Yoshioka and H. Zen

“Circular Polarization Measurement for Individual Gamma Rays in Capture Reactions with Intense Pulsed Neutrons”, Eur. Phys. J. A, **60** (2024) 166.

M. Fushitani, Y. Hikosaka, M. Tashiro and A. Hishikawa

“State-Selective Dissociative Double Ionization of CH₃I and CH₂I₂ via I 4d Core-Hole States Studied by Multi-Electron–Ion Coincidence Spectroscopy”, J. Chem. Phys. **160** (2024) 174307.

K. Hagiwra, E. Nakamura, S. Makita, S. Suga, S. Tanaka, S. Kera and F. Matsui

“Development of Dual-Beamline Photoelectron Momentum Microscopy for Valence Orbital Analysis”, J. Synchrotron Radiat. **31** (2024) 540.

Y. Hikosaka and S. Fritzsche

“Amplified Collective Auger Decay of Double Inner-Shell Vacancy in Xe”, Phys. Rev. Lett. **134** (2025) 103001.

S. Ichinokura, M. Toyoda, M. Hashizume, K. Horii, S. Kusaka, S. Ideta, K. Tanaka, R. Shimizu, T. Hitosugi, S. Saito and T. Hirahara

“Van Hove Singularity and Lifshitz Transition in Thickness-controlled Li-intercalated Graphene”, Phys. Rev. B **105** (2022) 235307.

S. Ichinokura, A. Hemmi, H. Cun, K. Tanaka, R. Shimizu, T. Hitosugi, T. Greber and T. Hirahara

“Efficiency of Electron Doping to Monolayer Hexagonal Boron Nitride by Alkali Metals”, Appl. Phys. Lett. **122** (2023) 071601.

S. Ichinokura, K. Tokuda, M. Toyoda, K. Tanaka, S. Saito and T. Hirahara

“Van Hove Singularity and Enhanced Superconductivity in Ca-intercalated Bilayer Graphene Induced by Confinement Epitaxy”, ACS Nano **18** (2024) 13738.

T. Inoue, T. Ina, H. Masai, N. Kondo, F. Matsui, T. Kinoshita and A. Nakajima

“Extended X-ray Absorption Fine Structure (EXAFS) Measurements on Alkali Metal Superatoms of Ta-Atom-Encapsulated Si₁₆ Cage”, J. Phys. Chem. Lett. **15** (2024) 5376.

T. Kaneyasu, Y. Hikosaka and M. Katoh

“Attosecond Phase Control of Extreme Ultraviolet Light Pulses and Its Applications to Atomic and Molecular Physics”, Butsuri **79** (2024) 661.

M. Katoh, M. Fujimoto, E. Salehi, M. Hosaka and H. Kawaguchi

“Chirality in Electromagnetic Radiation from Relativistic Electrons”, Chirality **36** (2024) e23677.

M. Kitaura, H. Zen, S. Watanabe, H. Masai, K. Kamada, K.-J. Kim, A. Yoshikawa and J. Ueda

“Relationship between Ce³⁺ 5d₁ level, conduction-band bottom, and shallow electron trap level in Gd₃Ga₅O₁₂:Ce and Gd₃Al₁Ga₄O₁₂:Ce crystals studied via pump-probe absorption spectroscopy”, Opt. Mater. : X **25** (2025) 100398. Invited Article.

M. Kobayashi, S. Yoshimura, H. Iwayama, N. Kondo, J. Takahashi, H. Ota, M. Katoh, K. Kobayashi and H. Nakamura

“First Attempt at Photoionized Plasma Production with VUV Radiation in Synchrotron Light Source UVSOR-III”, Plasma Fusion Res. **19** (2024) 1301028.

M. Kobayashi, J. Takahashi, H. Ota, K. Matsuo, M.I.A. Ibrahim, T. Minato, G. Fujimori, M. Katoh, K. Kobayashi, Y. Kebukawa and H. Nakamura

“Emergence of Optical Activity and Surface Morphology Changes in Racemic Amino Acid Films under Circularly Polarized Lyman- α Light Irradiation” Chirality, **36** (2024) e70004.

J. A. Laux, T. Ohigashi, M. R. Bittermann, T. Araki, H. Yuzawa, F. Rancan, A. Vogt and E. Ruehl

“Scanning Transmission Soft X-Ray Microscopy Probes Topical Drug Delivery of Rapamycin Facilitated by Microneedles”, ChemPhysChem **26** (2025) e202400819.

T. Mansikkala, S. M. Kangas, I. Miinalainen, P. Angervaniva, N. Darin, M. Blomqvist, R. Hinttala, M. Huttula, J. Uusimaa and M. Patanen

“Soft X-ray spectromicroscopy of human fibroblasts with impaired sialin function”, RSC Adv. **14** (2024) 28797.

H. Matsuda, K. Ozawa, Y. Hashimoto, T. Matsushita and F. Matsui

“Use of planar retarding field to improve energy resolution of projection-type electron spectroscopy collimator analyzer”, Jpn. J. Appl. Phys. **63** (2024) 046503.

F. Matsui, K. Hagiwara, Y. Sato, E. Nakamura, R. Sagehashi, S. Kera and S. Suga

“Dual-Beamline Photoelectron Momentum Microscopy for Valence Orbital Characterization”, Synchrotron Radiat. News **37** (2024) 43.

T. Matsumoto, T. Noguchi, A. Miyake, Y. Igami, M. Matsumoto, T. Yada, M. Uesugi, M. Yasutake, K. Uesugi, A. Takeuchi, H. Yuzawa, T. Ohigashi and T. Araki

“Sodium carbonates on Ryugu as evidence of highly saline water in the outer Solar System”, Nat. Astron. **8** (2024) 1536.

T. Mibu, R. Matsuoka, M. Nagasaka and T. Kusamoto

“Emission Enhancement in a Luminescent Polychlorinated Diphenylpyridylmethyl Radical through Coordination to Silver(I)”, Dalton Trans. **54** (2025) 2265.

Y. Mondori, Y. Yamauchi, T. Kawakita, S. Ogoshi, Y. Uetake, Y. Takeichi, H. Sakurai and Y. Hoshimoto

“Monodentate σ -Accepting Boron-Based Ligands Bearing Square-Planar Ni(0) Centers”, J. Am. Chem. Soc. **147** (2025) 8326.

M. Nagasaka

“Probing Isolated Water Molecules in Aqueous Acetonitrile Solutions Using Oxygen K-Edge X-ray Absorption Spectroscopy”, J. Phys. Chem. Lett. **15** (2024) 5165.

M. Nagasaka

“Metal-ligand delocalization of iron and cobalt protoporphyrin complexes in aqueous solutions probed by soft X-ray absorption spectroscopy”, Phys. Chem. Chem. Phys. **26** (2024) 23636.

Y. Nakayama, J. Miyamoto, K. Yamauchi, Y. Baba, F. Teshima and K. Tanaka

“Far- and Mid-infrared FT-IR Analysis of Single-crystal Pentacene Using a Linearly Polarized Synchrotron Radiation Light Source”, Vib. Spectrosc. **132** (2024) 103601.

Y. Nakayama, K. Yamauchi, Y. Baba, K. Kikuchi, H. Hattori, F. Teshima and K. Tanaka

“Synchrotron Radiation Fourier-transform Infrared Absorption Measurements on the Single-crystal Dinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene”, Jpn. J. App. Phys. **63** (2024) 09SP07.

M. Odelius, S. D. Folkestad, T. Saisopa, Y. Rattanachai, W. Sailuam, H. Yuzawa, N. Kosugi, A. Paul, H. Koch and D. Céolin

“Symmetry Breaking around Aqueous Ammonia Revealed in Nitrogen K-edge X-ray Absorption”, J. Phys. Chem. Lett. **16** (2025) 3411.

K. Okazaki, M. Koshimizu, D. Nakauchi, T. Kunikata, T. Kato, N. Kawaguchi and T. Yanagida

“Crystal growth, luminescence, and radiation response characteristics of undoped and Nd-doped langasite-type $\text{Ca}_3\text{TaGa}_3\text{Si}_2\text{O}_{14}$ ”, J. Alloy Compd. **1008** (2024) 176788.

Y. Taira

“Spatial distribution of gamma rays produced by axially symmetric polarized and optical vortex lasers”, Phys. Rev. A **110** (2024) 043525.

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

“Neutron detection properties of Ti-doped LiGaO_2 single crystalline scintillator”, Radiat. Phys. Chem. **223** (2024) 111917.

S. Tsuru and M. Nagasaka

“Solvatochromism Observed in the X-ray Absorption Spectrum of Indole Dissolved in Water”, J. Phys. Chem. A **129** (2025) 3020.

Y. Yao, M. Nagasaka and K. Mochizuki

“Salt-Specific Effect on the Solubility and Aggregation of 1-butanol in Water”, Physica A, **647** (2024) 129917.

S. Yoshioka, K. Yasuda, C. Hsiao, C. Hsu, W. Olovsson, J. Birch, C. Hemmingsson and G. Pozina

“Local Structure of Zn Dopant in b Phase Ga_2O_3 ”, J. Phys. Chem. C **128** (2024) 18879.

S. Yoshioka, K. Tsuruta, T. Yamamoto, K. Yasuda, S. Matsumura, N. Ishikawa and E. Kobayashi

“X-ray Absorption Near Edge Structure and First-principles Spectral Investigations of Cationic Disorder in MgAl_2O_4 Induced by Swift Heavy Ions”, Phys. Chem. Chem. Phys. **20** (2018) 4962.

S. Yoshioka, K. Yasuda, S. Matsumura, T. Sugiyama and E. Kobayashi

“Transition of Cationic Local Structures in $\text{Mg}_{1-x}\text{Ni}_x\text{Al}_2\text{O}_4$ ”, J. Phys. Chem. C **125** (2021) 5269.

M. Yoshizumi, K. Araki, M. Enomura, H. Murata and A. Nakahira

“Synthesis of Size-Controlled Cerium Oxide Nanoparticles by Forced Thin-Film Type Reactor (in Japanese)”, J. Soc. Mater. Sci., Jpn. **73** (2024) 480.

UVSOR User 16

