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List of Publications

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K. Asami, J. Ueda, K. Yasuda, K. Hongo, R. Maezono, M. G. Brik and S. Tanabe
"Development of Persistent Phosphor of Eu^{2+} Doped Ba_2SiO_4 by Er^{3+} Codoping Based on Vacuum Referred Binding Energy Diagram", Opt. Mater., **84** (2018) 436.

L. Guo and M. Katoh
"*pn*-type Substrate Dependence of CsK_2Sb Photocathode Performance", Phys. Rev. Accel. Beams, **22** (2019) 033401.

A. Hara and T. Awano
"Ground State of Ultrashallow Thermal Donors in Silicon", Jpn. J. Appl. Phys., **57** (2018) 101301.

Y. Hikosaka and E. Shigemasa
"Metastability of Carbonyl Sulfide Dications Studied by Multi-Electron−Ion Coincidence Spectroscopy", Int. J. Mass Spectrom., **439** (2019) 13.

M. Huttula, M. Patanen, R. Piispanen, T. Ohigashi, N. Kosugi, S. Swaraj, R. Belkhou, A. Pranovich, T. Jyske, P. Kilpeläinen, A. Kärkönen, R. Korpinen, T. Laakso, S. Valkonen and P. Saranpää
"STXM Chemical Mapping of Norway Spruce Knotwood Lignans", Microsc. Microanal., **24** (2018) 482.

H. Iwayama and J. R. Harries
"Resonant-Auger-State-Selected Dissociation Dynamics and Dissociation Limits of N 1s→π*core Excited N_2 Molecules Studied Using a Two-Dimensional Auger-Electron-Photoion Coincidence Method", J. Electron Spectrosc., Relat. Phenom. **232** (2019) 40.

S. Kamei, J. Hibi, Y. Ohtsubo, H. Watanabe and S. Kimura
"Infrared Evaluation of Enantiometric Amount and Application to Racemization at the Interface Between L- and D-Alanine", Applied Spectrosc., **72 (7)** (2018) 1074.

T. Kawai, T. Hirai and K. Bando
"Optical Studies on the Conversion from Ag^+ to Ag^- Centers by the Electrolytic Coloration in NaCl and KCl Crystals", Opt. Mater., **77** (2018) 30.

T. Kawai and A. Iguchi
"Energy Transfer Processes from I^- Centers to In^+ Centers at Room Temperature in Co-Doped NaCl:I^-,In^+ Crystals", J. Lumin., **207** (2019) 58.

M. Kitaura, S. Watanabe, K. Kamada, K. J. Kim, M. Yoshino, S. Kurosawa, T. Yagihashi, A. Ohnishi and K. Hara
"Shallow Electron Traps Formed by Gd^{2+} Ions Adjacent to Oxygen Vacancies in Cerium-Doped $Gd_3Al_2Ga_3O_{12}$ Crystal", Appl. Phys. Lett., **113** (2018) 041906.

S. Kurosawa, T. Horiai, R. Murakami, Y. Shoji, J. Pejchal, A. Yamaji, S. Kodama, Y. Ohashi, Y. Yokota, K. Kamada, A. Yoshikawa, A. Ohnishi and M. Kitaura
"Comprehensive Study on Ce-Doped $(Gd, La)_2Si_2O_7$ Scintillator", IEEE Trans. Nucl. Sci., **65** (2018) 2136.

M.-H. Li, H.-H. Yeh, Y.-H. Chiang, U.-S. Jeng, C.-J. Su, H.-W. Shiu, Y.-J. Hsu, N. Kosugi, T. Ohigashi, Y.-A. Chen, P.-S. Shen, P. Chen and T.-F. Guo
"Highly Efficient 2D/3D Hybrid Perovskite Solar Cells via Low-Pressure Vapor-Assisted Solution Process", Adv. Mater., **30** (2018) 1801401.

S. Matsuba, K. Kawase, A. Miyamoto, S. Sasaki, M. Fujimoto, T. Konomi, N. Yamamoto, M. Hosaka and M. Katoh
"Generation of Vector Beam with Tandem Helical Undulators", Appl. Phys. Lett., **113** (2018) 021106.

Z. Mita, H. Watanabe and S. Kimura
"Giant Thermal Effect of Vibration Modes of Single-Crystalline Alanine", Infrared Phys. Tech., **96** (2019) 7.

M. Nagasaka, H. Yuzawa and N. Kosugi
"Intermolecular Interactions of Pyridine in Liquid Phase and Aqueous Solution Studied by Soft X-ray Absorption Spectroscopy", Z. Phys. Chem., **232** (2018) 705.

M. Nagasaka, H. Yuzawa, K. Mochizuki, E. Rühl and N. Kosugi
"Temperature-Dependent Structural Changes in Liquid Benzene", J. Phys. Chem. Lett., **9** (2018) 5827.

T. Ohigashi, A. Ito, K. Shinohara, S. Tone, Y. Inagaki, H. Yuzawa and N. Kosugi
"3-Dimensional Chemical Structures of an Isolated Cell Nucleus by a Scanning Transmission X-ray Microscope", Microsc. Microanal., **24** (2018) 400.

J. Okabayashi, Y. Miura and H. Munekata
"Anatomy of Interfacial Spin-Orbit Coupling in Co/Pd Multilayers Using X-ray Magnetic Circular Dichroism and First-Principles Calculations", Scientific Reports, **8** (2018) 8303.

J. Okabayashi, S. Miyasaka, M. Takahashi and S. Tajima
"Local Electronic and Magnetic Properties of Ferro-Orbital-Ordered FeV_2O_4", Jpn. J. Appl. Phys., **57** (2018) 0902BD.

J. Okabayashi
"Tailoring Spins and Orbitals in Spin-Orbitronic Interfaces Probed by X-Ray Magnetic Circular Dichroism", Progress in Photon Science, (2019) 471. Springer (review book).

T. Sakai, M. Koshimizu, Y. Fujimoto, D. Nakauchi, T. Yanagida and K. Asai
"Evaluation of the Scintillation and Thermally Stimulated Luminescence Properties of Cs_2CdCl_4 Single Crystals", Sensors and Materials, **30** (2018) 1564.

K. Shinohara, T. Ohigashi, S. Toné, M. Kado and A. Ito
"Quantitative Analysis of Mammalian Chromosome by Scanning Transmission Soft X-ray Microscopy", Ultramicroscopy, **194** (2018) 1.

K. Shinohara, S. Toné, T. Ejima, T. Ohigashi and A. Ito
"Quantitative Distribution of DNA, RNA, Histone and Proteins Other than Histone in Mammalian Cells, Nuclei and a Chromosome at High Resolution Observed by Scanning Transmission Soft X-Ray Microscopy (STXM)", Cells, **8** (2019) 164.

M. M. Shirolkar, Y.-F. Wang, Y. C. Shao, K.-H. Chen, H.-T. Wang, X.-S. Qiu, J.-S. Yang, J.-J. Wu, J.-W. Chiou , T. Ohigashi, N. Kosugi and W.-F. Pong
"Probing the Electronic Structure of $BiVO_4$ Coated ZnO Nanodendrite Core- Shell Nanocomposite Using X-ray Spectroscopic and Spatially Resolved Scanning Transmission X-ray Microscopy Studies", Microsc. Microanal., **24** (2018) 468.

Y. Sugizaki, H. Motoyama, K. Edamoto and K. Ozawa
"Electronic Structure of the VO Film Grown on Ag(100): Resonant Photoelectron Spectroscopy Study", e-J. Surf. Sci. Nanotech., **16** (2018) 236.

Y. Sugizaki, H. Motoyama, Y. Shimato, T. Yoshida, T. Takano and K. Edamoto
"Valence and Core-Level Photoelectron Spectroscopy Studies of $Fe_2P(10\bar{1}0)$:Effect of P Segregation on the Surface Electronic Structure", Jpn. J. Appl. Phys., **57** (2018) 115701.

Y. Taira and M. Katoh
"Generation of Optical Vortices by Nonlinear Inverse Thomson Scattering at Arbitrary Angle Interactions", Astrophys. J., 860:**45** (2018).

K. Takahashi, M. Koshimizu, Y. Fujimoto, T. Yanagida and K. Asai
"Auger-Free Luminescence Characteristics of $Rb_{1-x}Cs_xCaCl_3$", J. Ceram. Soc. Jpn., **126** (2018) 755.

Y. Takamori, T. Morimoto, N. Fukuda and Y. Ohki
"Effects of Ultraviolet Photon Irradiation and Subsequent Thermal Treatments on Solution-Processed Amorphous Indium Gallium Zinc Oxide Thin Films", AIP Advances, **8** (2018) 115304.

A. Takemori, T. Hajiri, S. Miyasaka, Z. H. Tin, T. Adachi, S. Ideta, K. Tanaka, M. Matsunami and S. Tajima
"Change of Fermi Surface States Related with Two Different T_c-raising Mechanisms in Iron Pnictide Superconductors", Phys. Rev. B, **98** (2018) 100501.

M. Uesugi, M. Ito, H. Yabuta, M. Naraoka, F. Kitajima, Y. Takano, H. Mita, Y. Kebukawa, A. Nakato and Y. Karouji
"Further Characterizations of Carbonaceous Materials in Hayabusa-returned Samples to Understand Their Origin", Meteorit. Planet. Sci., **54** (2019) 638.

Y. F. Wang, Y. C. Shao, S. H. Hsieh, Y. K. Chang, P. H. Yeh, H. C. Hsueh, J. W. Chiou, H. T. Wang, S. C. Ray, H. M. Tsai, C. W. Pao, C. H. Chen, H. J. Lin, J. F. Lee, C. T. Wu, J. J. Wu, Y. M. Chang, K. Asokan, K. H. Chae, T. Ohigashi, Y. Takagi, T. Yokoyama, N. Kosugi and W. F. Pong
"Origin of Magnetic Properties in Carbon Implanted ZnO Nanowires", Scientific Reports, **8** (2018) 7758.

F. B. Wiggers, A. Fleurence, K. Aoyagi, T. Yonezawa, Y. Yamada-Takamura, H. Feng, J. Zhuang, Y. Du, A.Y. Kovalgin and M. P. de Jong
"Van der Waals Integration of Silicene and Hexagonal Boron Nitride", 2D Mater., **6** (2019) 035001.

H. Yamane, A. Carlier and N. Kosugi
"Orbital-Specific Electronic Interaction in Crystalline Films of Iron Phthalocyanine Grown on Au(111) Probed by Angle-Resolved Photoemission Spectroscopy", Mater. Chem. Front., **2** (2018) 609.

H. Yamane, M. Oura, K. Sawada, T. Ebisu, T. Ishikawa N.Yamazaki, K. Hasegawa, K. Takagi and T. Hatsui
"Critical Absorbed Dose of Resinous Adhesive Material towards Non-Destructive Chemical-State Analysis Using Soft X-Rays ", J. Electron Spectrosc. Relat. Phenom., **232** (2019) 11.

H. Yamane and N. Kosugi
"Photoelectron Angular Distribution Induced by Weak Intermolecular Interaction in Highly Ordered Aromatic Molecules", J. Phys. Chem. C, **122** (2018) 26472.

J.-P. Yang, M. Meissner, T. Yamaguchi, X.-Y. Zhang, T. Ueba, L.-W. Cheng, S. Ideta, K. Tanaka, X.-H. Zeng, N. Ueno and S. Kera
"Band Dispersion and Hole Effective Mass of Methylammonium Lead Iodide Perovskite", Sol. RRL, **2** (2018) 1800132.

H. Zen, H. Ohgaki, Y. Taira, T. Hayakawa, T. Shizuma, I. Daito, J. Yamazaki, T. Kii, H. Toyokawa and M. Katoh
"Demonstration of Tomographic Imaging of Isotope Distribution by Nuclear Resonance Fluorescence", AIP Advances, **9** (2019) 035101.

H. Zen, T. Hayakawa, E. Salehi, M. Fujimoto, T. Shizuma, J. K. Koga, T. Kii, M. Katoh and H. Ohgaki
"Generation of 1-MeV Quasi-Monochromatic Gamma-ray for Precise Measurement of Delbrück Scattering by Laser Compton Scattering", J. Phys.: Conf. Ser., **1067** (2018) 092003.

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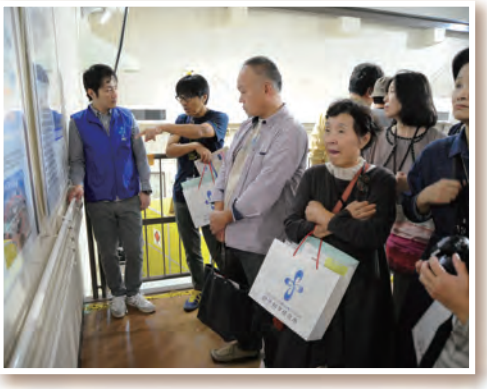

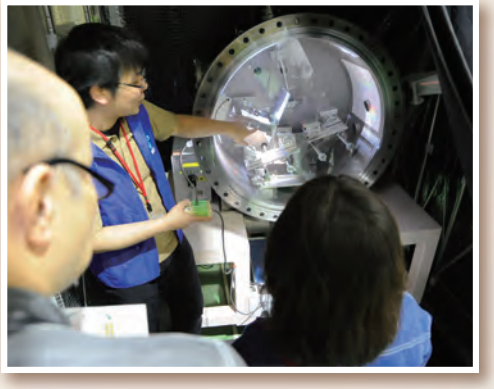

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