



IV

List of Publications

List of Publications

K. Asami, J. Ueda, M. Kitaura and S. Tanabe

“Investigation of Luminescence Quenching and Persistent Luminescence in Ce³⁺ Doped (Gd,Y)₃(Al,Ga)₅O₁₂ Garnet Using Vacuum Referred Binding Energy Diagram”, J. Lumin., **198** (2018) 418.

T. Brandenburg, R. Golnak, M. Nagasaka, K. Atak, S. S. N. Lalithambika, N. Kosugi and E. F. Aziz

“Impacts of Conformational Geometries in Fluorinated Alkanes”, Sci. Rep., **6** (2016) 31382.

F. Bussolotti, J. Yang, T. Yamaguchi, K. Yonezawa, K. Sato, M. Matsunami, K. Tanaka, Y. Nakayama, H. Ishii, N. Ueno and S. Kera

“Hole-Phonon Coupling Effect on the Band Dispersion of Organic Molecular Semiconductors”, Nature Commun., **8** (2017) Article number: 173.

A. Hara and T. Awano

“Ground-State Splitting of Ultrashallow Thermal Donors with Negative Central-Cell Corrections in Silicon”, Jpn. J. Appl. Phys., **56** (2017) 068001.

T. Hirahara, S. V. Eremeev, T. Shirasawa, Y. Okuyama, T. Kubo, R. Nakanishi, R. Akiyama, A. Takayama, T. Hajiri, S. Ideta, M. Matsunami, K. Sumida, K. Miyamoto, Y. Takagi, K. Tanaka, T. Okuda, T. Yokoyama, S. Kimura, S. Hasegawa and E. V. Chulkov

“Large-Gap Magnetic Topological Heterostructure Formed by Subsurface Incorporation of a Ferromagnetic Layer”, Nano Lett., **17** (2017) 3493.

S. Hosokawa, K. Matsuki, K. Tamaru, Y. Oshino, H. Aritani, H. Asakura, K. Teramura and T. Tanaka

“Selective Reduction of NO over Cu/Al₂O₃: Enhanced Catalytic Activity by Infinitesimal Loading of Rh on Cu/Al₂O₃”, Mol. Catal., **442** (2017) 74.

H. Iwayama, C. L'eonard, F. Le Qu'ere, S. Carniato, R. Guillemin, M. Simon, M. N. Piancastelli and E. Shigemasa

“Different Time Scales in the Dissociation Dynamics of Core-Excited CF₄ by Two Internal Clocks”, Phys. Rev. Lett., **119** (2017) 203203.

T. Kaneyasu, Y. Hikosaka, M. Fujimoto, H. Iwayama, M. Hosaka, E. Shigemasa and M. Katoh

“Observation of an Optical Vortex Beam from a Helical Undulator in the XUV Region”, J. Synchrotron Rad., **24** (2017) 934.

M. Katoh, M. Fujimoto, N. S. Mirian, T. Konomi, Y. Taira, T. Kaneyasu, M. Hosaka, N. Yamamoto, A. Mochihashi, Y. Takashima, K. Kuroda, A. Miyamoto, K. Miyamoto and S. Sasaki

“Helical Phase Structure of Radiation from an Electron in Circular Motion”, SCIENTIFIC REPORTS, **7** (2017) Article number:6130.

N. Kawano, M. Koshimizu, G. Okada, Y. Fujimoto, N. Kawaguchi, T. Yanagida and K. Asai

“Luminescence Properties of Organic Inorganic Layered Perovskite-type Compounds under Vacuum Ultraviolet Irradiation”, Jpn. J. Appl. Phys., **57** (2018) 02CA03.

S. Kimura, H. Yokoyama, H. Watanabe, J. Sichelschmidt, V. Süß, M. Schmidt and C. Felser
“Optical signature of Weyl Electronic Structures in Tantalum Pnictides TaPn (Pn = P, As)”, Phys. Rev. B., **96** (2017) 075119.

M. Mori, D. Nakauchi, G. Okada, Y. Fujimoto, N. Kawaguchi, M. Koshimizu and T. Yanagida
“Scintillation and Optical Properties of Ce³⁺-doped CaGdAl₃O₇ Single Crystals”, J. Lumin., **186** (2017) 93.

M. Nagasaka, H. Yuzawa and N. Kosugi
“Interaction between Water and Alkali Metal Ions and Its Temperature Dependence Revealed by Oxygen KEdge Xray Absorption Spectroscopy”, J. Phys. Chem. B, **121** (2017) 10957

M. Nagasaka, T. Ohigashi and N. Kosugi
“Development of In-Situ/Operando Sample Cells for Soft X-ray Transmission Spectromicroscopy at UVSOR-III Synchrotron”, SRN, **30** (2) (2017) 3.

M. Nagasaka, H. Yuzawa, T. Horigome and N. Kosugi
“Reliable Absorbance Measurement of Liquid Samples in Soft X-Rayabsorption Spectroscopy in Transmission Mode”, J. Electron Spectrosc Relat. Phenom., **224** (2018) 93.

D. Nakauchi, G. Okada, M. Koshimizu, N. Kawaguchi and T. Yanagida
“Radioluminescence and Thermally-Stimulated Luminescence Properties of Pr:CaSiO₃ Crystals”, Physica B, **530** (2018) 38.

T. Ohigashi, Y. Inagaki, A. Ito, K. Shinohara and N. Kosugi
“Investigation of Measurement Condition for 3-Dimensional Spectroscopy by Scanning Transmission X-ray Microscopy”, J. Phys.: Conf. Ser., **849** (2017) 012044.

H. Oinuma, S. Souma, D. Takane, T. Nakamura, K. Nakayama, T. Mitsuhashi, K. Horiba, H. Kumigashira, M. Yoshida, A. Ochiai, T. Takahashi and T. Sato
“Three-Dimensional Band Structure of LaSb and CeSb: Absence of Band Inversion”, Phys. Rev. B, **96** (2017) 041120.

Y. Okuyama, Y. Sugiyama, S. Ideta, K. Tanaka and T. Hirahara
“Growth and Atomic Structure of Tellurium Thin Films Grown on Bi₂Te₃”, Applied Surface Science, **398** (2017) 125.

T. Petit, L. Puskar, T. Dolenko, S. Choudhury, E. Ritter, S. Burikov, K. Laptinskiy, Q. Brustowski, U. Schade, H. Yuzawa, M. Nagasaka, N. Kosugi, M. Kurzyp, A. Venerosy, H. Girard, J.-C. Arnault, E. Osawa, N. Nunn, O. Shenderova and E. F. Aziz
“Unusual Water Hydrogen Bond Network around Hydrogenated Nanodiamonds”, J. Phys. Chem. C, **121** (2017) 5185.

K. Shinohara, T. Ohigashi, S. Toné, M. Kado and A. Ito
“Quantitative Study of Mammalian Cells by ScanningTransmission Soft X-ray Microscopy”, J. Phys.: Conf. Ser., **849** (2017) 012003.

H. Suga, S. Kikuchi, Y. Takeichi, C. Miyamoto, M. Miyahara, S. Mitsunobu, T. Ohigashi, K. Mase, K. Ono and Y. Takahashi
“Spetially Resolved Distribution of Fe Species around Microbes at the Submicron Scale in Natural Bacteriogenic Iron Oxdes”, Microbes Environ, **32** (2017) 283.

K. Takemoto, M. Yoshimura, T. Ohigashi, Y. Inagaki, H. Namba and H. Kihara
“Application of Soft X-ray Microscopy to Environmental Microbiology of Hydrosphere”, *J. Phys.: Conf. Ser.*, **849** (2017) 012010.

N. Tatemizo, Y. Miura, K. Nishio, S. Hirata, F. Sawa, K. Fukui, T. Isshiki and S. Imada
“**Band Structure and Photoconductivity of Blue-Green Light Absorbing AlTiN Films**”, *J. Mater. Chem. A*, **5** (2017) 20824.

H. Yamane and N. Kosugi
“**High Hole-Mobility Molecular Layer Made from Strong Electron Acceptor Molecules with Metal Adatoms**”, *J. Phys. Chem. Lett.*, **8** (2017) 5366.

T. Yanagida, M. Koshimizu, Y. Fujimoto, K. Fukuda, K. Watanabe, G. Okada and N. Kawaguchi
“**Scintillation Properties of Eu and Alkaline Metal Co-doped LiCaAlF₆**”, *J. Lumin.*, **191** (2017) 22.

T. Yanagida, Y. Fujimoto, M. Koshimizu, N. Kawano, G. Okada and N. Kawaguchi
“**Comparative Studies of Optical and Scintillation Properties between LiGaO₂ and LiAlO₂ Crystals**”, *J. Phys. Soc. Jpn.*, **86** (2017) 094201.

T. Yanagida, Y. Fujimoto, M. Koshimizu, N. Kumamoto, G. Okada and N. Kawaguchi
“**Scintillation and Dosimeter Properties of LiAlSi₂O₆ and LiAlSi₄O₁₀ Crystals**”, *Sensors and Materials*, **29** (2017) 1399.

T. Yanagida, M. Koshimizu, N. Kawano, G. Okada and N. Kawaguchi
“**Optical and Scintillation Properties of ScAlMgO₄ Crystal Grown by the Floating Zone Method**”, *Mater. Res. Bull.*, **95** (2017) 409.

M. Yoshida, Y. Mitsutomi, T. Mineo, M. Nagasaka, H. Yuzawa, N. Kosugi and H. Kondoh
“**Direct Observation of Active Nickel Oxide Cluster in Nickel–Borate Electrocatalyst for Water Oxidation by In Situ O K-Edge X-ray Absorption Spectroscopy**”, *J. Phys. Chem. C*, **119** (2015) 19279.

S. Yoshizawa, E. Minamitani, S. Vijayaraghavan, P. Mishra, Y. Takagi, T. Yokoyama, H. Oba, J. Nitta, K. Sakamoto, S. Watanabe, T. Nakayama and T. Uchihashi
“**Controlled Modification of Superconductivity in Epitaxial Atomic Layer-Organic Molecule Heterostructures**”, *Nano Lett.*, **17** (2017) 2287.

UVSOR Staff Works & Year End Party

