



# IV

## List of Publications



## List of Publications

P. Ayria, S. Tanaka, A. R. T. Nugraha, M. S. Dresselhaus and R. Saito

**“Phonon-assisted Indirect Transitions in Angle-resolved Photoemission Spectra of Graphite and Graphene”**, Phys. Rev. B, **94** (2016) 075429.

K. Hagiwara, Y. Ohtsubo, M. Matsunami, S. Ideta, K. Tanaka, H. Miyazaki, J. E. Rault, P. L. Fèvre, F. Bertran, A. Taleb-Ibrahimi, R. Yukawa, M. Kobayashi, K. Horiba, H. Kumigashira, K. Sumida, T. Okuda, F. Iga and S. Kimura

**“Surface Kondo Effect and Non-Trivial Metallic State of the Kondo Insulator YbB<sub>12</sub>”**, Nat. Commun., **7** (2016) 12690.

Y. Hikosaka, R. Mashiko, Y. Konosu, K. Soejima and E. Shigemasa

**“Electron Emission Relevant to Inner-shell Photoionization of Condensed Water Studied by Multi-electron Coincidence Spectroscopy”**, J. Electron Spectrosc. Relat. Phenom., **213** (2016) 17.

T. Horiai, S. Kurosawa, R. Murakami, J. Pejchal, A. Yamaji, Y. Shoji, V. I. Chani, Y. Ohashi, K. Kamada, Y. Yokota and A. Yoshikawa

**“Crystal Growth and Luminescence Properties of Yb<sub>2</sub>Si<sub>2</sub>O<sub>7</sub> Infra-red Emission Scintillator”**, Optical Materials, **58** (2016) 14.

A. Ito, T. Inoue, M. Kado, T. Ohigashi, S. Tone and K. Shinohara

**“Biomedical Application of Soft X-ray Microscopy with Special Reference to Spectromicroscopy”**, A. Phys. Pol. A, **129** (2016) 260.

H. Iwayama, T. Kaneyasu, Y. Hikosaka and E. Shigemasa

**“Stability and Dissociation Dynamics of N<sub>2</sub><sup>++</sup> Ions Following Core Ionization Studied by an Auger-electron-photoion Coincidence Method”**, J. Chem. Phys., **145** (2016) 034305.

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

**“Limitations in Photoionization of Helium by an Extreme Ultraviolet Optical Vortex”**, Phys. Rev. A, **95** (2017) 023413.

M. Katoh, M. Fujimoto, H. Kawaguchi, K. Tsuchiya, K. Ohmi, T. Kaneyasu, Y. Taira, M. Hosaka, A. Mochihashi and Y. Takashima

**“Angular Momentum of Twisted Radiation from an Electron in Spiral Motion”**, Phys. Rev. Lett., **118** (2017) 094801.

S. Kimura, Y. S. Kwon, Y. Matsumoto, H. Aoki and O. Sakai

**“Optical Evidence of Itinerant-Localized Crossover of 4f Electrons in Cerium Compounds”**, J. Phys. Soc. Japan, **85** (2016) 083702.

S. Kimura, H. Takao, J. Kawabata, Y. Yamada and T. Takabatake

**“Doping Effects on the Electronic Structure of an Anisotropic Kondo Semiconductor CeOs<sub>2</sub>Al<sub>10</sub>: An Optical Study with Re and Ir Substitution”**, J. Phys. Soc. Jpn., **85** (2016) 123705.

- M. Kitaura, K. Kamada, S. Kurosawa, J. Azuma, A. Ohnishi, A. Yamaji and K. Hara  
**“Probing Shallow Electron Traps in Cerium-doped  $Gd_3Al_2Ga_3O_{12}$  Scintillators by UV-induced Absorption Spectroscopy”**, Appl. Phys. Express, **9** (2016) 072602.
- M. Koshimizu, T. Yanagida, Y. Fujimoto and K. Asai  
**“Luminescence Properties of  $Gd_2Si_2O_7:Ce$  and  $Gd_2Si_2O_7:La, Ce$  under Vacuum Ultraviolet Irradiation”**, J. Rare Earths, **34** (2016) 782.
- M.-W. Lin, K.-C. Wang, J.-H. Wang, M.-H. Li, Y.-L. Lai, T. Ohigashi, N. Kosugi, P. Chen, D.-H. Wei, T.-F. Guo and Y.-J. Hsu  
**“Improve Hole Collection by Interfacial Chemical Redox Reaction at a Mesoscopic  $NiO/CH_3NH_3PbI_3$  Heterojunction for Efficient Photovoltaic Cells”**, Adv. Mater. Interface, (2016) 1600135.
- T. Morimoto, M. Harima, Y. Horii and Y. Ohki  
**“Involvement of Crystallinity in Various Luminescent Bands in Yttrium Aluminate”**, Nucl. Instrum. Methods Phys. Res. B, **366** (2016) 198.
- T. Morimoto, Y. Kuroda and Y. Ohki  
**“Electronic Excitation and Relaxation Processes of Oxygen Vacancies in YSZ and their Involvement in Photoluminescence”**, Appl. Phys. A, **122** (2016) 790.
- S. Nagaoka, T. Kakiuchi, J. Ohshita, O. Takahashi and Y. Hikosaka  
**“Site-Specific Electron-Relaxation Caused by Si:2p Core-Level Photoionization: Comparison between  $F_3SiCH_2CH_2Si(CH_3)_3$  and  $Cl_3SiCH_2CH_2Si(CH_3)_3$  Vapors by Means of Photoelectron Auger Electron Coincidence Spectroscopy”**, J. Phys. Chem. A, **120** (2016) 9907.
- D. Nakauchi, G. Okada, M. Koshimizu and T. Yanagida  
**“Optical and Scintillation Properties of Nd-doped  $SrAl_2O_4$  Crystals”**, J. Rare Earths, **34** (2016) 757.
- D. Nakauchi, G. Okada, M. Koshimizu and T. Yanagida  
**“Evaluation of Ce :  $SrAl_2O_4$  Crystal Scintillators”**, Nucl. Instrum. Methods Phys. Res. B, **377** (2016) 89.
- Y. Nakayama, Y. Mizuno, M. Hikasa, M. Yamamoto, M. Matsunami, S. Ideta, K. Tanaka, H. Ishii and N. Ueno  
**“Single-Crystal Pentacene Valence-Band Dispersion and Its Temperature Dependence”**, J. Phys. Chem. Lett., **8** (2017) 1259.
- T. Ohigashi, M. Nagasaka, T. Horigome, N. Kosugi, S. M. Rosendahl and A. P. Hitchcock  
**“Development of In-situ Sample Cells for Scanning Transmission X-ray Microscopy”**, AIP Conf. Proc., **1741** (2016) 050002.
- Y. Okuyama, Y. Sugiyama, S. Ideta, K. Tanaka and T. Hirahara  
**“Growth and Atomic Structure of Tellurium Thin Films Grown on  $Bi_2Te_3$ ”**, Appl. Surf. Sci., **398** (2017) 125.
- T. Senden and A. Meijerink  
**“The d-f Luminescence of  $Eu^{2+}$ ,  $Ce^{3+}$  and  $Yb^{2+}$  Ions in  $Cs_2MP_2O_7$  ( $M = Ca^{2+}, Sr^{2+}$ )”**, J. Lumi., **177** (2016) 254.
- I. Song, J. S. Goh, S.-H. Lee, S. W. Jung, J. S. Shin, H. Yamane, N. Kosugi and H. W. Yeom  
**“Realization of a Strained Atomic Wire Superlattice”**, ACS Nano, **9** (2015) 10621.

C. X. Trang, Z. Wang, D. Takane, K. Nakayama, S. Souma, T. Sato, T. Takahashi, A. A. Taskin and Y. Ando  
**“Fermiology of Possible Topological Superconductor  $Tl_{0.5}Bi_2Te_3$  Derived from Hole-doped Topological Insulator”**, Phys. Rev. B, **93** (2016) 241103.

E. Tsuda, Y. Mitsumoto, K. Takakura, N. Sunaga, T. Akitsu, T. Konomi and M. Katoh  
**“Electrochemical Tuning by Polarized UV Light Induced Molecular Orientation of Chiral Salen-type Mn(II) and Co(II) Complexes in an Albumin Matrix”**, J. Chem. Chem. Eng., **2** (2016) 53.

J. Ueda, A. Meijerink, P. Dorenbos, A. J. J. Bos and S. Tanabe  
**“Thermal Ionization and Thermally Activated Crossover Quenching Processes for  $5d-4f$  Luminescence in  $Y_3Al_{5-x}Ga_xO_{12}: Pr^{3+}$ ”**, Phys. Rev. B, **95** (2017) 014303.

K. Yamamoto, A. Klossek, R. Flesch, T. Ohigashi, E. Fleige, F. Rancan, J. Frombach, A. Vogt, U. Blume-Peytavi, P. Schrade, S. Bachmann, R. Haag, S. Hedtrich, M. Schäfer-Korting, N. Kosugi and E. Rühl  
**“Core-multishell Nanocarriers: Transport and Release of Dexamethasone Probed by Soft X-ray Spectromicroscopy”**, J. Control. Release, **242** (2016) 64.

H. Yamane and N. Kosugi  
**“Systematic Study on Intermolecular Valence-Band Dispersion in Molecular Crystalline Films”**, J. Electron Spectrosc. Relat. Phenom., **204** (2015) 61.

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**“Site-Specific Intermolecular Valence-Band Dispersion in  $\alpha$ -Phase Crystalline Films of Cobalt Phthalocyanine Studied by Angle-Resolved Photoemission Spectroscopy”**, J. Chem. Phys., **141** (2014) 224701.

H. Yamane, N. Kosugi and T. Hatsui  
**“Transmission-Grating Spectrometer for Highly Efficient and High-Resolution Soft X-Ray Emission Studies”**, J. Electron Spectrosc. Relat. Phenom., **188** (2013) 155.

H. Yamane and N. Kosugi  
**“Site-Specific Organic/Metal Interaction Revealed from Shockley-Type Interface State”**, J. Phys. Chem. C, **120** (2016) 24307.

M. Yoshida, S. Onishi, Y. Mitsutomi, F. Yamamoto, M. Nagasaka, H. Yuzawa, N. Kosugi and H. Kondoh  
**“Integration of Active Nickel Oxide Clusters by Amino Acids for Water Oxidation”**, J. Phys. Chem. C, **121** (2017) 255.

H. Zen, Y. Taira, T. Konomi, T. Hayakawa, T. Shizuma, J. Yamazaki, T. Kii, H. Toyokawa, M. Katoh and H. Ohgaki  
**“Generation of High Energy Gamma-ray by Laser Compton Scattering of 1.94- $\mu$ m Fiber Laser in UVSOR-III Electron Storage Ring”**, Energy Procedia, **89** (2016) 335.

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