

IV

List of Publications

List of Publication (2020)

K. Ali, H. Ohgaki, H. Zen, T. Kii, T. Hayakawa, T. Shizuma, H. Toyokawa, Y. Taira, V. Iancu, G. Turturica, C. A. Ur, M. Fujimoto and M. Katoh

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A. Fleurence, C.-C. Lee, R. Friedlein, Y. Fukaya, S. Yoshimoto, K. Mukai, H. Yamane, N. Kosugi, J. Yoshinobu, T. Ozaki and Y. Yamada-Takamura

“Emergence of Nearly Flat Bands Through a Kagome Lattice Embedded in an Epitaxial Two-Dimensional Ge Layer with a Bitriangular Structure”, Phys. Rev. B **102** (2020) 201102(R).

A. Fleurence, Y. Awatani, C. Huet, F. B. Wiggers, S. M. Wallace, T. Yonezawa and Y. Yamada-Takamura
“Band Engineering in an Epitaxial Two-Dimensional Honeycomb Si_{6-x}Ge_x Alloy”, Phys. Rev. Materials, **5** (2021) L011001.

K. Fujimori, M. Kitaura, Y. Taira, M. Fujimoto, H. Zen, S. Watanabe, K. Kamada, Y. Okano, M. Katoh, M. Hosaka, J. Yamazaki, T. Hirade, Y. Kobayashi and A. Ohnishi

“Visualizing cation vacancies in Ce:Gd₃Al₂Ga₃O₁₂scintillators by gamma-ray-induced positron annihilation lifetime spectroscopy”, Appl. Phys. Express, **13** (2020) 085505.

H. Fukushima, D. Nakauchi, M. Koshimizu, N. Kawaguchi and T. Yanagida

“Synthesis and Scintillation Properties of Ce-doped CaZrO₃ Single Crystals”, Jpn. J. Appl. Phys. **59** (2020) SCCB15.

H. Fukushima, D. Nakauchi, T. Kato, M. Koshimizu, N. Kawaguchi and T. Yanagida

“Photoluminescence and Scintillation Properties of Ce-doped SrLu₂O₄ Single Crystals”, Solid State Sci. **110** (2020) 106471.

L. Guo, H. Yamaguchi, M. Yamamoto, F. Matsui, G. Wang, F. Liu, P. Yang, E. R. Batista, N. A. Moody, Y. Takashima and M. Katoh

“Graphene as Reusable Substrate for Bialkali Photocathodes”, Appl. Phys. Lett., **116** (2020) 251903.

Y. Higaki, K. Kamitani, T. Ohigashi, T. Hayakawa and A. Takahara

“Exploring the Mesoscopic Morphology in Mussel Adhesive Proteins by Soft X-ray Spectromicroscopy”, Biomacromolecules **22** (2021) 1256.

Y. Hikosaka, H. Iwayama and T. Kaneyasu

“Zeeman Quantum Beats of Helium Rydberg States Excited by Synchrotron Radiation”, Journal of Synchrotron Radiation, **27** (2020) 675.

T. Hirahara, M. M. Otrokov, T. T. Sasaki, K. Sumida, Y. Tomohiro, S. Kusaka, Y. Okuyama, S. Ichinokura, M. Kobayashi, Y. Takeda, K. Amemiya, T. Shirasawa, S. Ideta, K. Miyamoto, K. Tanaka, S. Kuroda, T. Okuda, K. Hono, S. V. Eremeev and E. V. Chulkov

“Fabrication of a Novel Magnetic Topological Heterostructure and Temperature Evolution of its Massive Dirac Cone”, Nature Communications, **11** (2020) 4821.

T. Horai, S. Kurosawa, R. Murakami, Y. Shoji, J. Pejchal, M. Yoshino, A. Yamaji, H. Sato, Y. Ohashi, K. Kamada, Y. Yokota and A. Yoshikawa

“Crystal Growth and Optical Properties of a Ce₂Si₂O₇ Single Crystal”, Optical Materials, **109** (2020) 110210.

Motoo Ito, Naotaka Tomioka, Kentaro Uesugi, Masayuki Uesugi, Yu Kodama, Ikuya Sakurai, Ikuo Okada, Takuji Ohigashi, Hayato Yuzawa, Akira Yamaguchi, Naoya Imae, Yuzuru Karouji, Naoki Shirai, Toru Yada and Masanao Abe

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K. Iwasawa and Koji K. Okudaira

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

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M. Kitaura, K. Kamada, T. Ina, H. Yamane, M. Ishizaki, S. Watanabe, J. Azuma, I. Yamamoto, A. Ohnishi and T. Usuki

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“Novel Method of Search for Transparent Optical Materials with Extremely High Melting Point”, Cryst. Growth Des. **21**(1) (2021) 572–578

T. Mansikkala, M. Patanen, A. Kärkönen, R. Korpinen, A. Pranovich, T. Ohigashi, S. Swaraj, J. Seitsonen, J. Ruokolainen, M. Huttula, P. Saranpää, and R. Piispanen

“Lignans in Knotwood of Norway Spruce: Localisation with Soft X-ray Microscopy and Scanning Transmission Electron Microscopy with Energy Dispersive X-ray Spectroscopy”, Molecules, **25** (2020) 2997.

H. Matsuda and F. Matsui

“90°-deflection Imaging Electron Analyzer for Measuring Wide 2D Angular Distribution and Perpendicular Spin Texture”, J. Electron Spectrosc. Relat. Phenom. **245** (2020) 147001.

H. Matsuhashi, A. Iwamoto, M. Sasaki, K. Yoshida and H. Aritani

“Synthesis of SrO-Al₂O₃ Solid Base Catalysts from Strontium Hydroxide and Aluminum Alkoxide by a Solid-liquid Interface Reaction”, J. Jpn. Petrol. Inst., **64** (2021) 103.

F. Matsui, S. Makita, H. Matsuda, T. Yano, E. Nakamura, K. Tanaka, S. Suga and S. Kera

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- G. Michailoudi, J. J. Lin, H. Yuzawa, M. Nagasaka, M. Huttula, N. Kosugi, T. Kurtén, M. Patanen and N. L. Prisle
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- M. Nagasaka
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- M. Nagasaka and H. Iwayama
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“Local Structures of Aqueous Solutions Studied by Soft X-ray Absorption Spectroscopy”, Journal of the Spectroscopical Society of Japan, **67**(1) (2018) 2.
- M. Nagasaka
“Operando Observation of Liquid and Liquid-Liquid Interface by Soft X-ray Absorption Spectroscopy”, Mol. Sci., **12** (2018) A0096.
- T. Ogawa, D. Nakauchi, M. Koshimizu, N. Kawaguchi and T. Yanagida
“Scintillation Properties of Pr-doped Ca₂Al₂SiO₇ single crystals”, Opt. Mater. **100** (2020) 109565.
- T. Ohigashi, H. Yuzawa and N. Kosugi
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- T. Saisopa, K. Klaiphet, P. Songsiriritthigul, W. Pokapanich, S. Tangsukworakhun, C. Songsiriritthigul, C. Saiyasombat, Y. Rattanachai, H. Yuzawa, N. Kosugi and D. Ceolin
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- H. Spiridigliozi, A. Pille, F. Schoenstein, L. Museur, E. Feldbach, H. Mändar, M. Kitaura and A. Kanaev
“Effects of Ta doping and irradiation with He⁺ ions on photoluminescence of MgAl₂O₄spinel ceramics”, J. Euro. Ceram. Soc., **40** (2020) 3215.
- T. Tsukamoto, A. Kuzume, M. Nagasaka, T. Kambe and K. Yamamoto
“Quantum Materials Exploration by Sequential Screening Technique of Heteroatomicity”, J. Am. Chem. Soc., **142** (2020) 19078.
- Y. Taira, M. Fujimoto, S. Ri, M. Hosaka and M. Katoh
“Measurement of the phase structure of elliptically polarized undulator radiation”, New J. Phys., **22** (2020) 093061.
- K. Takahashi, M. Arai, M. Koshimizu, Y. Fujimoto, T. Yanagida and K. Asai
“Luminescence Characteristics of Cs₂BaCl₄”, Jpn. J. Appl. Phys. **59** (2020) 032003.

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K. Takahashi, M. Arai, M. Koshimizu, Y. Fujimoto, T. Yanagida and K. Asai
“Luminescence and scintillation properties of Cs_2ZnCl_4 and Cs_3ZnCl_5 ”, Jpn. J. Appl. Phys. **59** (2020) 072002.

S. Tsunekawa, F. Yamamoto, K. Wang, M. Nagasaka, H. Yuzawa, S. Takakusagi, H. Kondoh, K. Asakura, T. Kawai and M. Yoshida
“Operando Observations of a Manganese Oxide Electrocatalyst for Water Oxidation Using Hard/Tender/Soft X-ray Absorption Spectroscopy”, J. Phys. Chem. C, **124** (2020) 23611.

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“Electrochemical Oxidation Enables Regioselective and Scalable α -C(sp³)-H Acyloxylation of Sulfides”, J. Am. Chem. Soc., **143** (2021) 3628.

O. Yagi, T. Kawai and K. Mizoguchi
“Formation and migration of V_k centers from localized excitons in NaCl:I and NaCl:I⁺, Tl⁺ crystals”, Journal of Luminescence, **226** (2020) 117359.