

技術課及び安全衛生管理室

B-1) 学術論文

- S. KOSUGI, N. SUZUKI, N. KUMAGAI, H. IWAYAMA, E. SHIGEMASA, F. KOIKE and Y. AZUMA**, “Dominance of Angular Momentum Exchange in the PCI Recapture of Photoelectrons Revealed by High Resolution Auger Electron Measurements of Kr,” *J. Phys. B* **52**, 245002 (6 pages) (2019).
- A. FERTÉ, J. PALAUDOUX, F. PENENT, H. IWAYAMA, E. SHIGEMASA, Y. HIKOSAKA, K. SOEJIMA, K. ITO, P. LABLANQUIE, R. TAÏEB and S. CARNIATO**, “Advanced Computation Method for Double Core Hole Spectra: Insight into the Nature of Intense Shake-up Satellites,” *J. Phys. Chem. Lett.* **11**, 4359–4366 (2020).
- M. NAGASAKA, H. YUZAWA and N. KOSUGI**, “Microheterogeneity in Aqueous Acetonitrile Solution Probed by Soft X-Ray Absorption Spectroscopy,” *J. Phys. Chem. B* **124**, 1259–1265 (2020).
- M. ITO, N. TOMIOKA, K. UESUGI, M. UESUGI, Y. KODAMA, I. SAKURAI, I. OKADA, T. OHIGASHI, H. YUZAWA, A. YAMAGUCHI, N. IMAE, Y. KAROUJI, N. SHIRAI, T. YADA and M. ABE**, “The Universal Sample Holders of Microanalytical Instruments of FIB, TEM, NanoSIMS, and STXM-NEXAFS for the Coordinated Analysis of Extraterrestrial Materials,” *Earth, Planets Space* **72**, 133 (11 pages) (2020).
- T. SAISOPA, K. KLAIPHET, P. SONGSIRIRITTHIGUL, W. POKAPANICH, S. TANGSUKWORAKHUN, C. SONGSIRIRITTHIGUL, C. SAIYASOMBAT, Y. RATTANACHAI, H. YUZAWA, N. KOSUGI and D. CÉOLIN**, “Investigation of Solvated Calcium Dication Structure in Pure Water, Methanol, and Ethanol Solutions by Means of K and L_{2,3}-Edges X-Ray Absorption Spectroscopy,” *J. Electron Spectrosc. Relat. Phenom.* **244**, 146984 (6 pages) (2020).
- T. OHIGASHI, H. YUZAWA and N. KOSUGI**, “A Low-Pass Filtering Fresnel Zone Plate for Soft X-Ray Microscopic Analysis down to the Lithium K-Edge Region,” *Rev. Sci. Instrum.* **91**, 103110 (5 pages) (2020).
- S. TSUNEKAWA, F. YAMAMOTO, K.-H. 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**, 23611–23618 (2020).
- 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:Gd₃Al₂Ga₃O₁₂ Scintillators by Gamma-Ray-Induced Positron Annihilation Lifetime Spectroscopy,” *Appl. Phys. Express* **13**, 085505 (4 pages) (2020).
- F. MATSUI, S. MAKITA, H. MATSUDA, T. YANO, E. NAKAMURA, K. TANAKA, S. SUGA and S. KERA**, “Photoelectron Momentum Microscope at BL6U of UVSOR-III Synchrotron,” *J. J. Appl. Phys.* **59**, 067001 (9 pages) (2020).
- F. MATSUI, S. MAKITA, H. MATSUDA, T. UEBA, T. HORIGOME, H. YAMANE, K. TANAKA, S. KERA and N. KOSUGI**, “Bulk and Surface Band Dispersion Mapping of the Au(111) Surface by Acceptance-Cone Tunable PES System,” *e-J. Surf. Sci. Nanotechnol.* **18**, 18–23 (2020).

B-6) 受賞、表彰

近藤聖彦, 日本化学会化学技術有功賞 (2020).

堀米利夫, 第7回日本放射光学会功労報賞 (2020).

藤原基靖, ナノテクノロジープラットフォーム令和元年度技術支援貢献賞 (2020).

浅田瑞枝, ナノテクノロジープラットフォーム令和元年度技術支援貢献賞 (2020).

伊木志成子, ナノテクノロジープラットフォーム令和元年度技術支援貢献賞 (2020).

中村永研, 日本化学会化学技術有功賞 (2021).

B-8) 大学での講義、客員

繁政英治, 新潟大学大学院自然環境科学科, 自然環境科学集中講義「原子分子物理学I」, 2020年12月22日-24日.

岡野泰彬, 中部大学非常勤講師, 「力学」, 2020年春期, 「基礎電磁気学」, 2020年秋期.