

The background is a vibrant red color with a complex geometric design. It features several overlapping circular and linear patterns. A prominent feature is a large, semi-transparent circular graphic on the right side, composed of concentric rings and a dotted border. Diagonal lines and bands of varying shades of red sweep across the page, creating a sense of movement and depth. The overall aesthetic is modern and technical.

# IV

## List of Publications



## List of Publications

- T. Adachi, S Ideta, Z- H Tin, H. Usui, K. Tanaka, S. Miyasaka and S. Tajima  
**“Electronic Structure of  $\text{Sr}_{1-y}\text{Ca}_y\text{Fe}_2(\text{As}_{1-x}\text{P}_x)_2$  ( $x = 0.25$ ,  $y = 0.08$ ) Revealed by Angle-Resolved Photoemission Spectroscopy”**, J. Phys. Soc. Jpn., **88** (2019) 084701.
- Y. Hikosaka, T. Kaneyasu, M. Fujimoto, H. Iwayama and M. Katoh  
**“Coherent Control in the Extreme Ultraviolet and Attosecond Regime by Synchrotron Radiation”**, Nat. Commun., **10** (2019) 4988.
- Y. Hikosaka  
**“A Virtual Stretch of Light Pulse Interval by Pulsed Electron Extraction Introduced into a Magnetic Bottle Electron Spectrometer”**, Rev. Sci. Instrum., **90** (2019) 053105.
- M. Horio, K. Koshiishi, S. Nakata, K. Hagiwara, Y. Ota, K. Okazaki, S. Shin, S. Ideta, K. Tanaka, A. Takahashi, T. Ohgi, T. Adachi, Y. Koike and A. Fujimori  
**“ $d$ -Wave Superconducting Gap Observed in Protect-Annealed Electron-Doped Cuprate Superconductors  $\text{Pr}_{1.3-x}\text{La}_{0.7}\text{Ce}_x\text{CuO}_4$ ”**, Phys. Rev. B, **100** (2019) 054517.
- S. Ideta, N. Murai, M. Nakajima, R. Kajimoto and K. Tanaka  
**“Experimental Investigation of the Suppressed Superconducting Gap and Double-Resonance Mode in  $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ ”**, Phys. Rev. B, **100** (2019) 235135.
- M. Y. Ismail, M. Patanen, J. A. Sirviö, M. Visanko, T. Ohgashi, N. Kosugi, M. Huttula and H. Liimatainen  
**“Hybrid Films of Cellulose Nanofibrils, Chitosan and Nanosilica—Structural, Thermal, Optical, and Mechanical Properties”**, Carbohydr. Polym., **218** (2019) 87.
- T. Kaneyasu, Y. Hikosaka, M. Fujimoto, H. Iwayama and M. Katoh  
**“Controlling the Orbital Alignment in Atoms Using Cross-Circularly Polarized Extreme Ultraviolet Wave Packets”**, Phys. Rev. Lett., **123** (2019) 233401.
- H. Kawaguchi and M. Katoh  
**“Orbital Angular Momentum of Liénard-Wiechert Fields”**, Prog. Theor. Exp. Phys., **8** (2019), 083A02.
- Y. Kezuka, E. Tochigi, H. Murata, M. Yoshida, K. Eguchi, A. Nakahira, Y. Ikuhara and M. Tajika  
**“Synthesis of Tunable-Aspect-Ratio Calcite Nanoparticles via  $\text{Mg}^{2+}$  Doping”**, Cryst. Growth Des., **19** (2019) 6784.
- A. Khodabandeh, R. D. Arrua, B. R. Coad, T. Rodemann, T. Ohgashi, N. Kosugi, S. C. Thickett and E. Hilder  
**“Morphology Control in Polymerized High Internal Phase Emulsion Templated via Macro-RAFT Agent Composition: Visualizing Surface Chemistry”**, Polym. Chem., **9** (2018) 213.
- S. Kimura, Y. Nakajima, Z. Mita, R. Jha, R. Higashinaka, T. D. Matsuda and Yuji Aoki  
**“Optical Evidence of the Type-II Weyl Semimetals  $\text{MoTe}_2$  and  $\text{WTe}_2$ ”**, Phys. Rev. B, **99** (2019) 195203.
- H. Kimura, T. Kato, D. Nakauchi, M. Koshimizu, N. Kawaguchi and T. Yanagida  
**“Vacuum-UV-Excited Photoluminescence and Scintillation Properties of CsCl Transparent Ceramics and Single Crystal”**, Sensors and Materials, **31** (2019) 1265.
- 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: Atomic, Mol. Opti. Phys., **52** (2019) 245002.

- K. Kumadani, Y. Takamatsu, T. Minami, M. Togo, H. Murata and A. Nakahira  
**“Synthesis and Characterization of LTA-Type Zeolite by Microwaveassisted Hydrothermal Process”**, J. Ceramic Society of Japan, **127** (2019) 585.
- Y.R. Lu, Y.F. Wang, H.W. Chang, Y.C. Huang, J.L. Chen, C.L. Chen, Y.C. Lin, Y. G. Lin, W.F. Pong, T. Ohigashi, N. Kosugi, C.H. Kuo, W.C. Chou and C.L. Dong  
**“Effect of Fe<sub>2</sub>O<sub>3</sub> Coating on ZnO Nanowires in Photoelectrochemical Water Splitting: A Synchrotron X-ray Spectroscopic and spectromicroscopic Investigation”**, Sol. Energy Mater Sol. Cells, **209** (2020) 110469.
- T. Makino, T. Asai, T. Takeuchi, K. Kaminaga, D. Oka and T. Fukumura  
**“Temperature Dependence of Dielectric Functions in Yb<sub>2</sub>O<sub>3</sub> and Lu<sub>2</sub>O<sub>3</sub> epitaxial thin films on sapphire (0001)”**, Jpn. J. Appl. Phys., **59** (2020) SCCB13.
- H. Matsuda and F. Matsui  
**“Principle and Basic Design of Omnidirectional Photoelectron Acceptance Lens”**, Jpn. J. Appl. Phys. **59** (2020) 046503.
- F. Matsui, S. Makita, H. Matsuda, T. Ohigashi, H. Yamane and N. Kosugi  
**“Identification of Twinning-induced Edges on the Cleaved Graphite Crystal Surface”**, J. Phys. Soc. Jpn., **88** (2019) 114704.
- 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. Su rf. Sci. Nanotechnol. **18**, (2020) 18.
- N. Murai, K. Suzuki, S. Idea, M. Nakajima, K. Tanaka, H. Ikeda and R. Kajimoto  
**“Effect of Electron Correlations on Spin Excitation Bandwidth in Ba<sub>0.75</sub>K<sub>0.25</sub>Fe<sub>2</sub>As<sub>2</sub> as Seen via Time-of-Flight Inelastic Neutron Scattering”**, Phys. Rev. B, **97** (2018) 241112.
- M. Nagasaka, H. Yuzawa, N. Takada, M. Aoyama, E. Rühl and N. Kosugi  
**“Laminar Flow in Microfluidics Investigated by Spatially-Resolved Soft X-ray Absorption and Infrared Spectroscopy”**, J. Chem. Phys., **151** (2019) 114201.
- M. Nagasaka, H. Yuzawa and N. Kosugi  
**“Soft X-ray Absorption Spectroscopy of Liquids for Understanding Chemical Processes in Solution”**, Anal. Sci., **36** (2020) 95.
- M. Nagasaka, H. Yuzawa and N. Kosugi  
**“Microheterogeneity in Aqueous Acetonitrile Solution Probed by Soft Xray Absorption Spectroscopy”**, J. Phys. Chem. B, **124** (2020) 1259.
- Y. Nakajima, Z. Mita, H. Watanabe, Y. Ohtsubo, T. Ito, H. Kotegawa, H. Sugawara, H. Tou and S. Kimura  
**“Optical and Photoelectrical Studies on Anisotropic Metal-Insulator Transition of RuAs”**, Phys. Rev. B, **100** (2019) 125151.
- T. Nakamura, Y. Ohtsubo, Y. Yamashita, S. Ideta, K. Tanaka, K. Yaji, A. Harasawa, S. Shin, F. Komori, R. Yukawa, K. Horiba, H. Kumigashira and S. Kimura  
**“Giant Rashba Splitting of Quasi-one-dimensional Surface States on Bi/InAs(110)-(2x1)”**, Phys. Rev. B, **98** (2018) 075431.
- D. Nakauchi, M. Koshimizu, N. Kawaguchi and T. Yanagida  
**“Photo- and Radio-Luminescence Characterizations in Rare-Earth-Doped SrAl<sub>2</sub>O<sub>4</sub> Crystals”**, J. Ceram. Proc. Res., **20** (2019) 307.
- Y. Ohtsubo, Y. Yamashita, K. Hagiwara, S. Ideta, K. Tanaka, R. Yukawa, K. Horiba, H. Kumigashira, K. Miyamoto, T. Okuda, W. Hirano, F. Iga and S. Kimura  
**“Non-Trivial Surface States of Samarium Hexaboride at the (111) Surface”**, Nat. Commun., **10** (2019) 1.

- S. Park, T. Schultz, A. Han, A. Aljarb, X. Xu, P. Beyer, A. Opitz, R. Ovsyannikov, L.-J. Li, M. Meissner, T. Yamaguchi, S. Kera, P. Amsalem and N. Koch  
**“Electronic Band Dispersion Determination in Azimuthally Disordered Transition-Metal Dichalcogenide Monolayers”**, *Commun. Phys.*, **2** (2019) 68.
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- J. Takahashi and K. Kobayashi  
**“Origin of Terrestrial Bioorganic Homochirality and Symmetry Breaking in the Universe”**, *Symmetry*, **11** (2019) 919.
- D. Takane, Z. Wang, S. Souma, K. Nakayama, T. Nakamura, H. Oinuma, Y. Nakata, H. Iwasawa, C. Cacho, T. Kim, K. Horiba, H. Kumigashira, T. Takahashi, Y. Ando and T. Sato  
**“Observation of Chiral Fermions with a Large Topological Charge and Associated Fermi-Arc Surface States in CoSi”**, *Phys. Rev. Lett.*, **122** (2019) 076402.
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**“Observation of Dirac-Like Energy Band and Ring-Torus Fermi Surface Associated with the Nodal Line in Topological Insulator CaAgAs”**, *npj Quantum Mater.*, **3** (2018) 1.
- N. Tatemizo, S. Imada, K. Okahara, H. Nishikawa<sup>1</sup>, K. Tsuruta, T. Ina, Y. Miura, K. Nishio and T. Isshiki  
**“Electronic Structure of AlFeN Films Exhibiting Crystallographic Orientation Change from c- to a-axis with Fe Concentrations and Annealing effect”**, *Sci. Rep.*, **10** (2020) 1819.
- S. Watanabe, T. Kawai and K. Mizoguchi  
**“Energy Relaxation from STE to In<sup>+</sup> Centers in NaI:In<sup>+</sup> Crystals”**, *J. Phys. Conf. Ser.*, **1220** (2019) 012031.
- S. Yamanaka, K. Tonami, M. Iwashita, K. Yoshida, R. Takeuchi, S. Ideta, K. Tanaka, K. Mase, K. Yamada, H. Yoshida and Y. Nakayama  
**“High Sensitivity Detection of the Frontier Electronic States of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Single Crystals by Low Energy Excitation”**, *Appl. Phys. Express*, **12** (2019) 051009.
- H. Yamane, F. Matsui, T. Ueba, T. Horigome, S. Makita, K. Tanaka, S. Kera and N. Kosugi  
**“Acceptance-Cone-Tunable Electron Spectrometer for Highly-Efficient Constant Energy Mapping”**, *Rev. Sci. Instrum.*, **90** (2019) 093102.
- J. Yang, S.-X. Ren, T. Yamaguchi, M. Meissner, L. Cheng, L. Zhou, S. Ideta, K. Tanaka and S. Kera  
**“Valence Band Dispersion Measured in the Surface Normal Direction of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Single Crystals”**, *Appl. Phys. Exp.*, **13** (2020) 011009.
- Y. Yokoyama, H. Hasegawa, Y. Mizuno, D. Asai, Y. Okamoto, H. S. Suzuki, K. Takehana, Y. Imanaka and K. Takenaka  
**“Effects of Y Substitution on the Electronic Structure and Charge Dynamics of SmS”**, *Phys. Rev. B*, **100** (2019) 245143.



# UVSOR User 2

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